

GS-5654LX, GS-5654PLX V2



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I. Product Information

- **GS-5654LX**: 54-Port Gigabit Web Smart Switch with 6 SFP+ 10G Ports
- GS-5654PLX V2: 54-Port Gigabit PoE+ Long Range Web Smart Switch with 6 SFP+ 10G Ports

I-1. Package Content



I-2. Hardware Overview

GS-5654LX:



I-3. LED Status

GS-5654LX

Function	Color	Status	Description
	Croop	On	Power on
PVVR	Green	Off	Power off
		On	Power on
SYS	Green	Blinking	System is booting up
		Off	Power off
	Pod	On	System failure
STS ALIVI	Red	Off	Device in good condition
	Green	On	Link at 1000Mbps
		Blinking	Sending or receiving data
Link/Act		Off	Port disconnected or link fail
(1~48 Port)	Amber	On	Link at 10/100Mbps
		Blinking	Sending or receiving data
		Off	Port disconnected or link fail
	Blue	On	Link at 10Gbps
		Blinking	Sending or receiving data
10G		Off	Port disconnected or link fail
(49-54 Port)	Green	On	Link at 1Gbps
		Blinking	Sending or receiving data
		Off	Port disconnected or link fail

GS-5654PLX V2

Function	Color	Status	Description
	Croop	On	Power on
PVVK	Green	Off	Power off
		On	Power on
SYS	Green	Blinking	System is booting up
		Off	Power off
SYS ALM	Red	On	System failure (Overheat, wrong voltage)
		Off	Device in good condition
		On	Over PoE max. power
PoE Max	Green	Off	Not over PoE max power
		On	Link at 10Gbps
10.0	Blue	Blinking	Sending or receiving data
10 G		Off	Port disconnected or link fail
(Port 49~54)	Green	On	Link at 1000Mbps
		Blinking	Sending or receiving data
		Off	Port disconnected or link fail
Link/Act or PoE Indicators Slide Switch		t	Show Link/Act network connection status (Port 1 ~48)
Link/Act PoE	PoE (Right)		Show PoE connection status (Port 1~48)
		On	Link at 1000Mbps
	Green	Blinking	Sending or receiving data
Link/Act		Off	Port disconnected or link fail
(Leit)		On	Link at 10/100Mbps
	Amber	Blinking	Sending or receiving data
		off	Port disconnected or link fail
PoE	Green	On	Feeding power to PoE devices
(Right)	Green	Off	PoE function is not active

II. Installation

Read the following topics and perform the procedures in the correct order. Incorrect installation may cause damage to the product.

II-1. Physically Setup

There are two ways to physically set up the switch. No matter how you installed the switch, please keep it with good ventilation.

1. **Desktop Placement**: Attach the supplied rubber feet to the recessed areas on the bottom of the switch. Place the switch on a flat surface and keep it with good ventilation.



2. **Rack-Mount Installation**: You can mount the switch in any standard size, 19-inch (about 48 cm) wide rack with 1 Rack Unit (1U) of space, which is 1.75 inches (4.45 cm) high.

First, align the mounting brackets with the mounting holes on the switch's side panels and secure the brackets with the screws.



Then secure the switch on the equipment rack and keep it with good ventilation.



II-2. Connection

- 1. Power on: Connect the power cord to the switch and the power outlet. The switch is powered by the 100-240VAC 50/60Hz external highperformance power supply. (Note: Make sure the PWR LED is green.)
- 2. Uplink: Plug the SFP/SFP+ cable into the SFP/SFP+ slot (Note: Make sure that the LED is blue (SFP+), green or amber (SFP)) or plug the standard Cat5e or above Ethernet cable into the LAN port (Note: Make sure that the LED is green or amber) and connect it to another switch.
- 3. Connect devices: Plug the standard Cat5e or above Ethernet cable into the LAN port and connect to any networking device with an Ethernet port. (Note: Make sure that the "LAN" Link/Act LED is green or amber.) The hardware installation is complete!

4. Connect a computer: Connect your computer with the switch and get ready for web-based configuration with following "Section III Web-based Configuration Utility".



This section describes how to navigate the web-based switch configuration utility through web browser. **Be sure to disable any browser pop-up blocker.**

Browser Restrictions

- If you are using older versions of Internet Explorer, you cannot directly use an IPv6 address to access the device. You can, however, use the DNS (Domain Name System) server to create a domain name that contains the IPv6 address, and then use that domain name in the address bar in place of the IPv6 address.
- If you have multiple IPv6 interfaces on your management station, use the IPv6 global address instead of the IPv6 link local address to access the device from your browser.

Launching the Configuration Utility

- **1.** Connect your computer with the switch then open a web browser.
- 2. Enter the IP address of the switch you are configuring in the address bar on the browser (factory default IP address is 192.168.2.1) and then press Enter. Please make sure that your computer's IP address is in the same subnet as this switch. The default IP address is an IP address in the range of 192.168.2.X (X=2-254). You can modify the IP address of your computer if you need.

Default IP	192.168.2.1
Default User Name	admin
Default Password	1234

3. The default username is "admin" and the default password is "1234".

	ΣDİM	IAX (Pro		
	Model Name		GS-5654LX		
1	Username:			Ĵ	
Ê	Password:				
	Language	English	×		
	l	LOGIN			

4. The first time that you log in with the default username and password, you are required to set a new password.

Se	New Password	
New	Password	
Confi	m Password	
	Apply	

5. Following the next section for details of Web-based Configuration Utility.

This chapter describes how to use the web-based management interface (Web UI) to configure the switch's features.

IV-1. Status

Use the Status pages to view system information and status.

IV-1-1. System Information

This page shows switch panel, CPU utilization, Memory utilization and other system current information. It also allows user to edit some system information.

To display the Device Information web page, click **Status > System Information**.

	Status >> System Information	
 Status System Information Logging Message Port Link Aggregation MAC Address Table 	EDIMAX Pro	4 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54
 Network 		
 Port PoE ✓ VLAN 	System Information	Edit 90%
 MAC Address Table 	Model GS-5654PLX	80%
 Spanning Tree 	System Name Switch	
 Discovery 	System Location Default	50%
 Multicast 	System Contact Default	40%
 Security 	·	30%
✓ ACL	MAC Address FC:8F:C4:0D:1E:F7	20%
↓ QOS	IPv4 Address 192.168.2.1	10%
 Diagnostics Management 	IPv6 Address fe80::fe8f:c4ff:fe0d:1ef7/64	
• management	System Uptime 0 day, 1 hr, 27 min and 23 sec	14.30.00 14.33.00 14.40.00 14.41.00
	Current Time 1970-01-01 01:27:23 UTC+8	
	Loader Version 3.6.1.1	100% 90%
	Loader Date Mar 17 2021 - 16:13:47	80%
	Firmware Version 1.0.3	70%
	Firmware Date Jul 21 2021 - 17:08:49	60%
	Telnet Disabled	40% 30%
	SSH Disabled	20%
	HTTP Enabled	10%
	HTTPS Disabled	0% 14:38:00 14:39:00 14:40:00 14:41:00
	SNMP Enabled	

Item	Description
Model	Model name of the switch.
System Name	System name of the switch. This name will also use as CLI
System Name	prefix of each line. ("Switch>" or "Switch#").
System Location	Location information of the switch.
System Contact	Contact information of the switch.
MAC Address	Base MAC address of the switch.
IPv4 Address	Current system IPv4 address.
IPv6 Address	Current system IPv6 address.
System Uptime	Total elapsed time from booting.
Current Time	Current system time.
Loader Version	Boot loader image version.
Loader Date	Boot loader image build date.
Firmware Version	Current running firmware image version.
Firmware Date	Current running firmware image build date.
Telnet	Current Telnet service enable/disable state.
SSH	Current SSH service enable/disable state.
НТТР	Current HTTP service enable/disable state.
HTTPS	Current HTTPS service enable/disable state.
SNMP	Current SNMP service enable/disable state.

Click "Edit" button on the table title to edit following system information.

Edit System Information

System Name	Switch	
System Location	Default	
System Contact	Default	

Status > System Information > Edit System Information

Item	Description
System Name	System name of the switch. This name will also use as CLI prefix of each line. ("Switch>" or "Switch#").
System Location	Location information of the switch.
System Contact	Contact information of the switch.

IV-1-2. Logging Message

To view the logging messages stored on the RAM and Flash, click **Status > Logging Message**.

Logging Message Table

Vie	wing	RAM 🔻			
Sh	owing [All entries 		Showing 1 to 4 of 4 entries	Q
L	og ID	Time	Severity	Description	
	1	Jan 01 2000 00:01:19	notice	New http connection for user admin, source 19	2.168.2.22 ACCEPTED
	2	Jan 01 2000 00:01:01	notice	GigabitEthernet28 link up	
	3	Jan 01 2000 00:00:58	notice	RESTART: System restarted - Cold Start	
	4	Jan 01 2000 00:00:58	notice	Logging is enabled	
	Clea	r Refresh			First Previous 1 Next Last

ltem	Description
Log ID	The log identifier.
Time	The time stamp for the logging message.
Severity	The severity for the logging message.
Description	The description of logging message.
	The logging view including:
Viewing	 RAM: Show the logging messages stored on the RAM.
	 Flash: Show the logging messages stored on the Flash.
Clear	Clear the logging messages.
Refresh	Refresh the logging messages.

IV-1-3. Port

IV-1-3-1. Statistics

This page displays standard counters on network traffic form the Interfaces, Ethernet -like and RMONMIB. Interfaces and Ethernet-like counters display errors on the traffic passing through each port. RMON counters provide a total count of different frame types and sizes passing through each port. The "Clear" button will clear MIB counter of current selected port.

To display the Port Flow Chart web page, click **Status > Port > Statistics**.

Port	GE1 V
MIB Counter	 All Interface Etherlike RMON
Refresh Rate	 None 5 sec 10 sec 30 sec

Clear

Interface	
ifInOctets 0	
ifInUcastPkts 0	
ifInNUcastPkts 0	
ifInDiscards 0	
ifOutOctets 0	
ifOutUcastPkts 0	
ifOutNUcastPkts 0	
ifOutDiscards 0	
ifInMulticastPkts 0	
ifInBroadcastPkts 0	
ifOutMulticastPkts 0	
ifOutBroadcastPkts 0	
Etherlike	
dot3StatsAlignmentErrors	0
dot3 StatsFC SErrors	0
dot3StatsSingleCollisionFrames	0
dot3StatsMultipleCollisionFrames	0
dot3StatsDeferredTransmissions	0
dot3StatsLateCollisions	0
dot3StatsExcessiveCollisions	0

dot2 State Sumbol Errors	0
uoto stats symbolemors	U
dot3ControlInUnknownOpcodes	0
dot3InPauseFrames	0
dot3OutDaugoEramos	0
uotooutrauser fames	
RMON	
etherStatsDronEvents	Ο
	5
etherStatsOctets	0
othor State Dista	0
ettier statspikts	U
etherStatsBroadcastPkts	0
etherStatsMulticastPkts	0
etherStatsCRCAlignErrors	0
ether StatsUnder SizePkts	0
othor State Over Size Dkts	٥
	5
etherStatsFragments	0
	-
etherStatsJabbers	U
etherStatsCollisions	0
etherStatsPkts64Octets	0
etherStatsPkts65to127Octets	D
etherStatsPkts128to255Octets	0
other StateDkte 256to 511 Octote	0
	5
etherStatsPkts512to1023Octets	0
othor State Dista 4024 to 45420 at a to	0
ettler statsPKts1024t01518Octets	U

ltem	Description
Port	Select one port to show counter statistics.
	Select the MIB counter to show different counter type
	• All: All counters.
MIB Counter	 Interface: Interface related MIB counters.
	 Etherlike: Ethernet-like related MIB counters.
	 RMON: RMON related MIB counters.
Defrech Date	Refresh the web page every period of seconds to get new
Kellesii Kale	counter of specified port.

IV-1-3-2. Error Disabled

To display the Error Disabled web page, click **Status > Port > Error Disabled**.

Port		
Port		
Port	Peason Ti	ma eft/sea)
GE1	Reason In	ne Leit (sec)
GE2		
GE3		-
GE4		
GE5		
GE6		
GE7		
GE8		
GE9		
GE10		
GE11		
GE12		
GE13		
GE14		
GE15		
GE16		
GE17		
GE18		-
GE19		
GE20		
GE21		
GE22		
GE23		
GE24		
XGE1		
XGE2		
XGE3		
XGE4	-	-
LAG1		
LAG2		
LAG3		
LAG4		
LAG5		
1466		
LAG7	-	

ltem	Description
	Select one or more port to operate.
Port	Interface or port number.
	Port will be disabled by one of the following error reason:
	BPDU Guard
	• UDLD
	 Self Loop
	 Broadcast Flood
Reason	 Unknown Multicast Flood
	 Unicast Flood
	ACL
	 Port Security Violation
	DHCP rate limit
	 ARP rate limit
Time Left (sec)	The time left in second for the error recovery.
Refresh	Refresh the current page.
Recover	Recover the selected port status.

IV-1-3-3. Bandwidth Utilization

This page allow user to browse ports' bandwidth utilization in real time. This page will refresh automatically in every refresh period.



To display Bandwidth Utilization web page, click **Status > Port > Bandwidth Utilization**.

Item	Description
Pofrach Pata	Refresh the web page every period of seconds to get new
Reffestinate	bandwidth utilization data.

IV-1-4. Link Aggregation

To display the Link Aggregation web page, click **Status > Link Aggregation**.

LAG	Name	Туре	Link Status	Active Member	Inactive Member
LAG 1					
LAG 2					
LAG 3					
LAG 4					
LAG 5					
LAG 6					
LAG 7					
LAG 8					

Item	Description
LAG	LAG Name.
Name	LAG port description.
	The type of the LAG.
Turpa	 Static: The group of ports assigned to a static LAG are always active members.
туре	 LACP: The group of ports assigned to dynamic LAG are
	candidate ports. LACP determines which candidate ports
	are active member ports.
Link Status	LAG port link status.
Active Member	Active member ports of the LAG.
Inactive Member	Inactive member ports of the LAG.

IV-1-5. MAC Address Table

The MAC address table page displays all MAC address entries on the switch including static MAC address created by administrator or auto learned from hardware. The "Clear" button will clear all dynamic entries and "Refresh" button will retrieve latest MAC address entries and show them on page.

To display the MAC Address Table web page, click **Status > MAC Address Table**.

MAC	Address Table							
Showin	All V entries			Showing 1 to 2 of 2 entries	Q			
VLAN	MAC Address	Туре	Port					
1	FC:8F:C4:0D:1E:F7	Management	CPU					
1	A4:1F:72:57:57:9E	Dynamic	GE48					
CI	ear Refresh				First Pre	evious 1	Next	Last

Item	Description
VLAN	VLAN ID of the mac address.
MAC Address	MAC address.
	The type of MAC address
	 Management: DUT's base mac address for management
Туре	Purpose.
	 Static: Manually configured by administrator
	 Dynamic: Auto learned by hardware.
	The type of Port
Port	 CPU: DUT's CPU port for management purpose.
	 Other: Normal switch port.

IV-2. Network

Use the Network pages to configure settings for the switch network interface and how the switch connects to a remote server to get services.

IV-2-1. IP Address

This section allows you to edit the IP address, Netmask, Gateway and DNS server of the switch.

To view the IP Address menu, navigate to **Network > IP Address**.

IPv4 Address	
Address Type	 Static Dynamic
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.254
DNS Server 1	168.95.1.1
DNS Server 2	168.95.192.1

IPv6 Address	
Auto Configuration	Enable
DHCPv6 Client	Enable
IPv6 Address	
Prefix Length	0 (0 - 128)
IPv6 Gateway	
DNS Server 1	
DNS Server 2	
Operational Status	
IPv4 Address	192.168.2.1
IPv4 Default Gateway	192.168.2.254
IPv6 Address	fe80::76da:38ff:fe17:6e7a/64
IPv6 Gateway	::
Link Local Address	fe80::76da:38ff:fe17:6e7a/64

Apply

Item	Description
Address Type	 The address type of switch IP configuration including Static: Static IP configured by users will be used. Dynamic: Enable the DHCP to obtain the IP address from a DHCP server.
IP Address	Specify the switch static IP address on the static configuration.
Subnet Mask	Specify the switch subnet mask on the static configuration.
Default Gateway	Specify the default gateway on the static configuration. The default gateway must be in the same subnet with switch IP address configuration.
DNS Server 1	Specify the primary user-defined IPv4 DNS server configuration.
DNS Server 2	Specify the secondary user-defined IPv4 DNS server configuration.
Table 3-2: IPv6 Addres	ss fields
IPv4 Address	The operational IPv4 address of the switch.
IPv4 Gateway	The operational IPv4 gateway of the switch.
IPv6 Address v6	The operational IPv6 address of the switch.
IPv6 Gateway	The operational IPv6 gateway of the switch.
Link Local Address	The IPv6 link local address for the switch.

IV-2-2. System Time

This page allow user to set time source, static time, time zone and daylight saving settings. Time zone and daylight saving takes effect both static time or time from SNTP server.

To display System Time page, click **Network > System Time**.

Source Time Zone	 SNTP From Computer Manual Time UTC +8:00 ✓
SNTP Address Type Server Address Server Port	Hostname IPv4 [123 (1 - 65535, default 123)
Manual Time Date Time Davlight Saving Ti	2021-08-30 YYYY-MM-DD 14:57:44 HH:MM:SS
Туре	 None Recurring Non-recurring USA Europen
Offset	60 Min (1 - 1440, default 60)
Recurring	From: Day Sun ~ Week First ~ Month Jan ~ Time To: Day Sun ~ Week First ~ Month Jan ~ Time
Non-recurring	From: YYYY-MM-DD HH:MM To: YYYY-MM-DD HH:MM
Operational Status Current Time	2021-08-30 14:57:44 UTC+8

Apply

Item	Description
	Select the time source.
Sourco	 SNTP: Time sync from NTP server.
Source	 From Computer: Time set from browser host.
	 Manual Time: Time set by manually configure.
Time Zone	Select a time zone difference from listing district.
SNTP	
Address Type	Select the address type of NTP server. This is enabled when time source is SNTP.
Server Address	Input IPv4 address or hostname for NTP server. This is enabled when time source is SNTP.
Server Port	Input NTP port for NTP server. Default is 123. This is enabled when time source is SNTP.
Manual Time	
Date	Input manual date. This is enabled when time source is manual.
Time	Input manual time. This is enabled when time source is manual.
Daylight Saving Time	
Туре	 Select the mode of daylight saving time. Disable: Disable daylight saving time. Recurring: Using recurring mode of daylight saving time. Non-Recurring: Using non-recurring mode of daylight saving time. USA: Using daylight saving time in the United States that starts on the second Sunday of March and ends on the first Sunday of November. European: Using daylight saving time in the Europe that starts on the last Sunday in March and ending on the last Sunday in October.
Offset	Specify the adjust offset of daylight saving time.
Recurring From	Specify the starting time of recurring daylight saving time. This field available when selecting "Recurring" mode.
Recurring To	Specify the ending time of recurring daylight saving time. This field available when selecting "Recurring" mode.
Non-recurring From	Specify the starting time of non-recurring daylight saving time. This field available when selecting "Non-Recurring" mode.
Non-recurring To	Specify the ending time of recurring daylight saving time. This field available when selecting "Non-Recurring" mode.
Non-recurring From	Specify the starting time of non-recurring daylight saving time. This field available when selecting "Non-Recurring"

	mode.
Non recurring To	Specify the ending time of recurring daylight saving time. This field available when selecting "Non-Recurring" mode.

IV-3. Port

Use the Port pages to configure settings for switch port related features.

IV-3-1. Port Setting

This page shows port current status and allow user to edit port configurations. Select port entry and click "**Edit**" button to edit port configurations.

To display Port Setting web page, click **Port > Port Setting**.

- E	ntry	Port	Туре	Description	State	Link Status	Speed	Duplex	Flow Control			
	1	GE1	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	2	GE2	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
U	3	GE3	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	4	GE4	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
U	5	GE5	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
U	6	GE6	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
		GE7	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	8	GES	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	10	GE9	1000M Copper		nabled	Down	Auto	Auto	Disabled			
0	11	GE 10	1000M Copper	-	nabled	Down	Auto	Auto	Disabled			
	12	0512	1000M Copper	E .	nabled	Down	Auto	Auto	Disabled			
0	13	GE13	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	14	GE14	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	15	GE15	1000M Copper	F	nabled	Down	Auto	Auto	Disabled			
0	16	GE16	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	17	GE17	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
õ	18	GE18	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
Ū.	19	GE19	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	20	GE20	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	21	GE21	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	22	GE22	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	23	GE23	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
õ	24	GE24	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	25	GE25	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
Ó	26	GE26	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
Ō	27	GE27	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	28	GE28	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	29	GE29	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	30	GE30	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	31	GE31	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
Π	32	GE32	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	33	GE33	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	34	GE34	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	35	GE35	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	36	GE36	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	37	GE37	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
0	38	GE38	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	39	GE39	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	40	GE40	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	41	GE41	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	42	GE42	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	43	GE43	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	44	GE44	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	45	GE45	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	46	GE46	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	47	GE47	1000M Copper	E	nabled	Down	Auto	Auto	Disabled			
	48	GE48	1000M Copper	E	nabled	Up	Auto (1000M)	Auto (Full)	Disabled (Disabled)			
	49	10GE1	10G Fiber	E	nabled	Down	Auto	Full	Disabled			
0	50	10GE2	10G Fiber	E	nabled	Down	Auto	Full	Disabled			
0	51	10GE3	10G Fiber	E	nabled	Down	Auto	Full	Disabled			
0	52	10GE4	10G Fiber	E	nabled	Down	Auto	Full	Disabled			
0	53	10GE5	10G Fiber	E	nabled	Down	Auto	Full	Disabled			
0	54	10GE6	10G Fiber	E	nabled	Down	Auto	Full	Disabled		 	
Edi	t]										
						Desc	cript	ion				
							NI					
						rort	ivan	ne				

Туре	Port media type.								
Description	Port Description.								
	Port admin state								
State	 Enabled: Enable the port. 								
	 Disabled: Disable the port. 								
	Current port link status								
Link Status	 Up: Port is link up. 								
	 Down: Port is link down. 								
Speed	Current port speed configuration and link speed status.								
Duplex	Current port duplex configuration and link duplex status.								
Flow Control	Current port flow control configuration and link flow control								
	status.								

Click "Edit" button to edit Port Setting menu

Edit Port Setting

Port	GE1			
Description				
State	e	Enable		
Speed		Auto Auto - 10M Auto - 100M Auto - 1000M Auto - 10M/100M	0	10M 100M 1000M
Duplex		Auto Full Half		
Flow Control		Auto Enable Disable		

Item	Description
Port	Selected Port list.
Description	Port media type.
	Port admin state.
State	 Enabled: Enable the port.
	 Disabled: Disable the port.

	Port speed capabilities.					
	 Auto: Auto speed with all capabilities. 					
	 Auto-10M: Auto speed with 10M ability only. 					
	 Auto-100M: Auto speed with 100M ability only. 					
Speed	 Auto-1000M: Auto speed with 1000M ability only. 					
	 Auto-10M/100M: Auto speed with 10M/100M abilities. 					
	 10M: Force speed with 10M ability. 					
	 100M: Force speed with 100M ability. 					
	 1000M: Force speed with 1000M ability. 					
	Port duplex capabilities.					
Duploy	 Auto: Auto duplex with all capabilities. 					
Duplex	• Half: Auto speed with 10M and 100M ability only.					
	 Full: Auto speed with 10M/100M/1000M ability only. 					
	Port flow control.					
Flow Control	 Auto: Auto flow control by negotiation. 					
	• Enabled: Enable flow control ability.					
	 Disabled: Disable flow control ability. 					

IV-3-2. Error Disable

To display Error Disabled web page, click Port > Error Disabled

Recovery Interval	300 Sec (30 - 86400)
BPDU Guard	Enable
UDLD	Enable
Self Loop	Enable
Broadcast Flood	Enable
Unknown Multicast Flood	Enable
Unicast Flood	Enable
ACL	Enable
Port Security	Enable
DHCP Rate Limit	Enable
ARP Rate Limit	Enable

Apply

Item

Description

Recover Interval	Auto recovery after this interval for error disabled port.
BPDU Guard	Enabled to auto shutdown port when BPDU Guard reason occur. This reason caused by STP BPDU Guard mechanism.
UDLD	Enabled to auto shutdown port when UDLD violation occur.
Self Loop	Enabled to auto shutdown port when Self Loop reason occur.
Broadcast Flood	Enabled to auto shutdown port when Broadcast Flood reason occur. This reason caused by broadcast rate exceed broadcast storm control rate.
Unknown Multicast Flood	Enabled to auto shutdown port when Unknown Multicast Flood reason occur. This reason caused by unknown multicast rate exceed unknown multicast storm control rate.
Unicast Flood	Enabled to auto shutdown port when Unicast Flood reason occur. This reason caused by unicast rate exceed unicast storm control rate.
ACL	Enabled to auto shutdown port when ACL shutdown port reason occur. This reason caused packet match the ACL shutdown port action.
Port Security	Enabled to auto shutdown port when Port Security Violation reason occur. This reason caused by violation port security rules.
DHCP rate limit	Enabled to auto shutdown port when DHCP rate limit reason occur. This reason caused by DHCP packet rate exceed DHCP rate limit.
ARP rate limit	Enabled to auto shutdown port when ARP rate limit reason occur. This reason caused by DHCP packet rate exceed ARP rate limit.

IV-3-3. Link Aggregation

IV-3-3-1. Group

This page allow user to configure link aggregation group load balance algorithm and group member.

To view the Group menu, navigate to **Port > Link Aggregation > Group**.



Apply

Link Aggregation Table

							Q	
	LAG	Name	Туре	Link Status	Active Member	Inactive Member		
0	LAG 1							
\odot	LAG 2							
\odot	LAG 3							
	LAG 4							
\odot	LAG 5							
	LAG 6							
\odot	LAG 7							
	LAG 8							
	Edit]						

ltem	Description
Load Balance Algorithm	 LAG load balance distribution algorithm src-dst-mac: Based on MAC address. src-dst-mac-ip: Based on MAC address and IP address.
LAG	LAG Name.
Name	LAG port description.
Туре	 The type of the LAG Static: The group of ports assigned to a static LAG are always active members. LACP: The group of ports assigned to dynamic LAG are candidate ports. LACP determines which candidate ports are active member ports.
Link Status	LAG port link status
Active Member	Active member ports of the LAG.
Inactive Member	Inactive member ports of the LAG.

Click "Edit" to edit Link Aggregation Group menu.

Description Item Selected LAG group ID. LAG LAG port description. Name The type of the LAG Static: The group of ports assigned to a static LAG are always active members. Туре LACP: The group of ports assigned to dynamic LAG are candidate ports. LACP determines which candidate ports are active member ports. Select available port to be LAG group member port. Member

IV-3-3-2. Port Setting

This page shows LAG port current status and allow user to edit LAG port configurations. Select LAG entry and click "**Edit**" button to edit LAG port configurations.

To display LAG Port Setting web page, click **Port > Link Aggregation > Port Setting**.

Port Setting Table

								Q
LAG	Туре	Description	State	Link Status	Speed	Duplex	Flow Control	
LAG 1			Enabled	Down	Auto	Auto	Disabled	
LAG 2			Enabled	Down	Auto	Auto	Disabled	
LAG 3			Enabled	Down	Auto	Auto	Disabled	
LAG 4			Enabled	Down	Auto	Auto	Disabled	
LAG 5			Enabled	Down	Auto	Auto	Disabled	
LAG 6			Enabled	Down	Auto	Auto	Disabled	
LAG 7			Enabled	Down	Auto	Auto	Disabled	
LAG 8			Enabled	Down	Auto	Auto	Disabled	
Edit								

ltem	Description					
LAG	LAG Port Name.					
Туре	LAG Port media type.					
Description	LAG Port description.					
	LAG Port admin state					
State	 Enabled: Enable the port. 					
	 Disabled: Disable the port. 					
	Current LAG port link status					
Link Status	 Up: Port is link up. 					
	 Down: Port is link down. 					
Speed	Current LAG port speed configuration and link speed status.					
Duploy	Current LAG port duplex configuration and link duplex					
Duplex	status.					
Flow Control	Current LAG port flow control configuration and link flow					
	control status.					

Click "Edit" to view Edit Port Setting menu.

Edit Port Setting

Port Description	LA	G1	
State	v	Enable	
Speed		Auto - 10M Auto - 100M Auto - 1000M Auto - 100/100M	10M 100M 1000M
Flow Control	0	Auto Enable Disable	

Item	Description					
Port	Selected Port list.					
Description	Port description.					
	Port admin state					
State	 Enabled: Enable the port. 					
	 Disabled: Disable the port. 					
	Port speed capabilities					
	 Auto: Auto speed with all capabilities. 					
	 Auto-10M: Auto speed with 10M ability only. 					
	 Auto-100M: Auto speed with 100M ability only. 					
Speed	 Auto-1000M: Auto speed with 1000M ability only. 					
	 Auto-10M/100M: Auto speed with 10M/100M abilities. 					
	 10M: Force speed with 10M ability. 					
	 100M: Force speed with 100M ability. 					
	 1000M: Force speed with 1000M ability. 					
	Port flow control					
Elow Control	 Auto: Auto flow control by negotiation. 					
	 Enabled: Enable flow control ability. 					
	 Disabled: Disable flow control ability. 					

IV-3-3-3. LACP

This page allow user to configure LACP global and port configurations. Select ports and click "Edit" button to edit port configuration.

To display the LACP Setting web page, click **Port > Link Aggregation > LACP**.

LACP F	LACP Port Setting Table							
					~			
_			_		۵			
En En	try	Port Port Prior	rity	i Timeout				
0	1	GE1	1	Long				
	2	GE2	1	Long				
0	3	GE3	1	Long				
U	4	GE4	1	Long				
U	0	GES	1	Long				
	7	GE0	4	Long				
	·	GE/	4	Long				
	0	GEQ	1	Long				
	10	GE10	1	Long				
0	11	GE11	1	Long				
0	12	GE12	1	Long				
n	13	GE13	1	Long				
n	14	GE14	1	Long				
	15	GE15	1	Long				
0	16	GE16	1	Long				
Ō	17	GE17	1	Long				
0	18	GE18	1	Long				
	19	GE19	1	Long				
0	20	GE20	1	Long				
	21	GE21	1	Long				
0	22	GE22	1	Long				
	23	GE23	1	Long				
	24	GE24	1	Long				
	25	GE25	1	Long				
	26	GE26	1	Long				
	27	GE27	1	Long				
0	28	GE28	1	Long				
	29	GE29	1	Long				
	30	GE30	1	Long				
	_							
	32	GE32	1	Long				
	53	GE33	1	Long				
	94 NE	0534		Long				
	ne Ne	0536	1	Long				
	27	GE30	1	Long				
	 10	GE38	1	Long				
	19	GE39	1					
	10	GE40	1	Long				
n 4	11	GE41	1	Long				
n 4	12	GE42	1	Long				
n 4	13	GE43	1	Long				
о 4	14	GE44	1	Long				
	15	GE45	1	Long				
П 4	16	GE46	1	Long				
П 4	17	GE47	1	Long				
0 4	18	GE48	1	Long				
0 4	19	10GE1	1	Long				
0 :	50	10GE2	1	Long				
0 :	51	10GE3	1	Long				
0 :	52	10GE4	1	Long				
0 5	53	10GE5	1	Long				
0 5	54	10GE6	1	Long				
_	_	1						

Edit

ltem	Description
System Priority	Configure the system priority of LACP. This decides the system priority field in LACP PDU.
Port	Port Name.
Port Priority	LACP priority value of the port.
Timeout	The periodic transmissions type of LACP PDUs.
	 Long: Transmit LACP PDU with slow periodic (30s).
	 Short: Transmit LACPP DU with fast periodic (1s).
Click "Edit" button to view Edit LACP Port Setting menu. Edit LACP Port Setting

Port	GE1		
Port Priority	1 (1 - 65535, default 1)		
Timeout	 Long Short 		
Apply Close			

Item	Description		
Port	Selected port list.		
Port Priority	Enter the LACP priority value of the port		
	The periodic transmissions type of LACP PDUs.		
Timeout	 Long: Transmit LACP PDU with slow periodic (30s). 		
	 Short: Transmit LACPP DU with fast periodic (1s). 		

IV-3-3-4. EEE

This page allow user to configure Energy Efficient Ethernet settings.

To display the EEE web page, click **Port > EEE**.

	_		
Entry	Port	State	Operational Status
0 1	GE1	Disabled	Disabled
2	GE2	Disabled	Disabled
3	GE3	Disabled	Disabled
0 4	GE4	Disabled	Disabled
5	GE5	Disabled	Disabled
0 6	GE6	Disabled	Disabled
0 7	GE7	Disabled	Disabled
0 8	GE8	Disabled	Disabled
9	GE9	Disabled	Disabled
0 10	GE10	Disabled	Disabled
11	GE11	Disabled	Disabled
12	GE12	Disabled	Disabled
13	GE13	Disabled	Disabled
0 14	GE14	Disabled	Disabled
	GE15	Disabled	Disabled
16	GE16	Disabled	Disabled
17	GE17	Disabled	Disabled
18	GE18	Disabled	Disabled
19	GE19	Disabled	Disabled
20	GE20	Disabled	Disabled
0 21	GE21	Disabled	Disabled
22	GE22	Disabled	Disabled
23	GE23	Disabled	Disabled
24	GE24	Disabled	Disabled
25	GE25	Disabled	Disabled
26	GE26	Disabled	Disabled
27	GE27	Disabled	Disabled
28	GE28	Disabled	Disabled
29	GE29	Disabled	Disabled
30	GE30	Disabled	Disabled
31	GE31	Disabled	Disabled
32	GE32	Disabled	Disabled
33	GE33	Disabled	Disabled

U	33	GE33	Disabled	Lisaoleo
	34	GE34	Disabled	Disabled
	35	GE35	Disabled	Disabled
	36	GE36	Disabled	Disabled
	37	GE37	Disabled	Disabled
	38	GE38	Disabled	Disabled
	39	GE39	Disabled	Disabled
	40	GE40	Disabled	Disabled
	41	GE41	Disabled	Disabled
	42	GE42	Disabled	Disabled
	43	GE43	Disabled	Disabled
	44	GE44	Disabled	Disabled
	45	GE45	Disabled	Disabled
	46	GE46	Disabled	Disabled
	47	GE47	Disabled	Disabled
	48	GE48	Disabled	Disabled
F - 14				
Edit				

Item	Description		
Port Port Name.			
	Port EEE admin state		
State	 Enabled: EEE is enabled. 		
	 Disabled: EEE is disabled. 		
	Port EEE operational status		
Operational Status	 Enabled: EEE is operating. 		
	 Disabled: EEE is no operating. 		

Click "Edit" to edit the EEE menu.

Edit EEE Setting

Port	GE1
State	Enable
Apply	Close

Item	Description		
Port	Port Name		
	Port EEE admin state		
State	 Enabled: EEE is enabled. 		
	 Disabled: EEE is disabled. 		

IV-3-4. Jumbo Frame

This page allow user to configure switch jumbo frame size.

To display Jumbo Frame web page, click **Port > Jumbo Frame**.

	Enable				
Jumbo Frame	1522	Byte (1518 - 10000, default 1522)			

Apply

ltem	Description
	Enable or disable jumbo frame. When jumbo frame is enabled,
Jumbo Frame	switch max frame size is allowed to configure. When jumbo
	frame is disabled, default frame size 1522 will be used.

IV-4. PoE

Port security can set port isolation and specific behavior.

NOTE: This section is only for GS-5654PLX V2.

IV-4-1. Global Setting

To display the Global web page, click **PoE > Global Setting**.

Nominal Power	400 W
Consuming Power	0 W
Remaining Power	400 W
Schedule Status	Disable T

Apply

PoE Schedule Table

				ц
Index	Name	Port List	Schedule Status	
1	Index_01		Disable	
2	Index_02		Disable	
3	Index_03		Disable	
4	Index_04		Disable	
5	Index_05		Disable	
6	Index_06		Disable	
7	Index_07		Disable	
8	Index_08		Disable	
9	Index_09		Disable	
10	Index_10		Disable	
11	Index_11		Disable	
12	Index_12		Disable	
13	Index_13		Disable	
14	Index_14		Disable	
15	Index_15		Disable	
16	Index_16		Disable	
17	Index_17		Disable	
18	Index_18		Disable	
19	Index_19		Disable	
20	Index_20		Disable	
21	Index_21		Disable	
22	Index_22		Disable	
23	Index_23		Disable	
24	Index_24		Disable	
Edit	1			

Item	Description	
Nominal Power	Maximum supply power.	
Consuming Power	Current consumed power.	
Remaining Power	Remaining available power.	
Schedule Status	Schedule status global switch.	
Name	PoE Schedule Name.	
Port List	The ports provide power in designated schedule index.	
Schedule Status	The current schedule status.	

Click "Edit" to view PoE Schedule List menu.



Item	Description
Index	The serial number of schedule list.
	Schedule Status
Schedule Status	 Checked: Schedule status is enabled.
	 Unchecked: Schedule status is disabled.
Name	Enter the PoE schedule name.
Date	Select a valid time for this schedule.
Port List	Select the port provide power.

IV-4-2. Priority Setting

There are 3 levels of priority you can choose for each port which are critical, high and low. Total power budget of the switch is 400W, if one of the ports selected Critical Priority then this port will get the power from the switch first if the total power exceeds 400W.

L L <thl< th=""> <thl< th=""> <thl< th=""></thl<></thl<></thl<>	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
L L <td>L</td>	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 Critical Priority In high Priority	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L	L
Critical Priority	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47
																					1	Cri	itical Pri h Priori	ority ty

IV-4-3. Power Limit

This page shows the information of each ports, including power limit.

PD /	Alive C	heck	Table							
										0
_										u)
	Entry	Port	Mode	ping PD IP Address	Interval Time	Retry Count	Action	Reboot Time	Connect Status	
	1	GE1	Disable	0.0.0.0	30	2	None	90	Off	
	2	GE2	Disable	0.0.00	30	2	None	90	Off	
	3	GE3	Disable	0.0.0.0	30	2	None	90	Off	
	4	GE4	Disable	0.0.0.0	30	2	None	90	Off	
	5	GE5	Disable	0.0.0.0	30	2	None	90	Off	
	6	GE6	Disable	0.0.0.0	30	2	None	90	Off	
	7	GE7	Disable	0.0.0.0	30	2	None	90	Off	
	8	GE8	Disable	0.0.0.0	30	2	None	90	Off	
	9	GE9	Disable	0.0.0.0	30	2	None	90	on	
	10	GE10	Disable	0.0.0.0	30	2	None	90	on	
	11	GE11	Disable	0.0.0.0	30	2	None	90	on	
	12	GE12	Disable	0.0.0.0	30	2	None	90	on	
	13	GE13	Disable	0.0.0.0	30	2	None	90	n	
	14	GE14	Disable	0.0.0.0	30	2	None	90	on	
	15	GE15	Disable	0.0.0.0	30	2	None	90	on	
	16	GE16	Disable	0.0.0.0	30	2	None	90	01	
	m - 24	<u></u>								
	Eall									

To display port setting page, please click the "Edit" button.

Power Limit Setting Table

Port List	GE1		
Power Limit	30000	mW (0 - 30000, default 30000)	

ltem	Description
Port list	Display the interface of port entry.
Power Limit	Specify the power limit (0-30000, default 30000)

IV-4-4. PoE Status



	Port	Status	PD Cla	ss Max Powe	er Consuming Powe	r Priority
1	GE1	Off	N/A	0 mW	0 mW	Low
2	GE2	Off	N/A	0 mW	0 mW	Critical
3	GE3	Off	N/A	0 mW	0 mW	Low
4	GE4	Off	N/A	0 mW	0 mW	Low
5	GE5	Off	N/A	0 mW	0 mW	High
6	GE6	Off	N/A	0 mW	0 mW	Low
7	GE7	Off	N/A	0 mW	0 mW	Low
8	GE8	Off	N/A	0 mW	0 mW	Low
9	GE9	Off	N/A	0 mW	0 mW	Low
10	GE10	Off	N/A	0 mW	0 mW	Low
11	GE11	Off	N/A	0 mW	0 mW	Low
12	GE12	Off	N/A	0 mW	0 mW	Low
13	GE13	Off	N/A	0 mW	0 mW	Low
14	GE14	Off	N/A	0 mW	0 mW	Low
15	GE15	Off	N/A	0 mW	0 mW	Low
16	GE16	Off	N/A	0 mW	0 mW	Low
17	GE17	Off	N/A	0 mW	0 mW	Low
18	GE18	Off	N/A	0 mW	0 mW	Low
19	GE19	Off	N/A	0 mW	0 mW	Low
20	GE20	Off	N/A	0 mW	0 mW	Low
21	GE21	Off	N/A	0 mW	0 mW	Low
22	GE22	Off	N/A	0 mW	0 mW	Low
23	GE23	Off	N/A	0 mW	0 mW	Low
24	GE24	Off	N/A	0 mW	0 mW	Low
25	GE25	Off	N/A	0 mW	0 mW	Low
26	GE26	Off	N/A	0 mW	0 mW	Low
27	GE27	Off	N/A	0 mW	0 mW	Low
28	GE28	Off	N/A	0 mW	0 mW	Low
29	GE29	Off	N/A	0 mW	0 mW	Low
30	GE30	Off	N/A	0 mW	0 mW	Low

31 GE3	1 Off	N/A	0 mW	0 mW	Low		
32 GE3	2 Off	N/A	0 mW	0 mW	Low		
33 GE3	3 Off	N/A	0 mW	0 mW	Low		
34 GE3	4 Off	N/A	0 mW	0 mW	Low		
35 GE3	5 Off	N/A	0 mW	0 mW	Low		
36 GE3	6 Off	N/A	0 mW	0 mW	Low		
37 GE3	7 Off	N/A	0 mW	0 mW	Low		
38 GE3	3 Off	N/A	0 mW	0 mW	Low		
39 GE3	9 Off	N/A	0 mW	0 mW	Low		
40 GE4	Off C	N/A	0 mW	0 mW	Low		
41 GE4	1 Off	N/A	0 mW	0 mW	Low		
42 GE4	2 Off	N/A	0 mW	0 mW	Low		
43 GE4	3 Off	N/A	0 mW	0 mW	Low		
44 GE4	4 Off	N/A	0 mW	0 mW	Low		
45 GE4	5 Off	N/A	0 mW	0 mW	Low		
46 GE4	5 Off	N/A	0 mW	0 mW	Low		
47 GE4	7 Off	N/A	0 mW	0 mW	Low		
48 GE4	3 Off	N/A	0 mW	0 mW	Low		

Per Port PoE Status Checked: Port PoE status is enabled. Unchecked: Port PoE status is disabled.

IV-5. VLAN

A virtual local area network, virtual LAN or VLAN, is a group of hosts with a common set of requirements that communicate as if they were attached to the same broadcast domain, regardless of their physical location. A VLAN has the same attributes as a physical local area network (LAN), but it allows for end stations to be grouped together even if they are not located on the same network switch. VLAN membership can be configured through software instead of physically relocating devices or connections.

IV-5-1. VLAN

Use the VLAN pages to configure settings of VLAN.

IV-5-1-1. Create VLAN

This page allows user to add or delete VLAN ID entries and browser all VLAN entries that add statically or dynamic learned by GVRP. Each VLAN entry has a unique name, user can edit VLAN name in edit page.

To display Create VLAN page, click VLAN > VLAN > Create VLAN.

|--|

VLAN Table

Showing All entries	Showing 1 to 1 of 1 entries	Q
VLAN Name Type 1 default Default		
Edit Delete		First Previous 1 Next Last

ltem	Description
	VLAN has not created yet.
Available VLAN	Select available VLANs from left box then move to right box
	to add.
	VLAN had been created.
Created VLAN	Select created VLANs from right box then move to left box to
	delete
VLAN	The VLAN ID.
Name	The VLAN Name.
	The VLAN Type.
Туре	 Static: Port base VLAN.
	 Dynamic: 802.1q VLAN.

Click "Edit" button to view Edit VLAN Name menu.

Edit VLAN Name						
Name VLAN0002						
Apply Close						

ltem	Description
Name	Input VLAN name.

IV-5-1-2. VLAN Configuration

This page allow user to configure the membership for each port of selected VLAN.

To display VLAN Configuration page, click VLAN > VLAN > VLAN Configuration.

					9	
Entry Do	rt Modo		omborchin			
Endy Po	Truel					
1 05	Trunk	Cexcluded O Forbic	iden O Tagged	Untagged		
2 GE	Trunk	O Excluded O Forbic	iden Olaggeo	Ontagged		
3 GE	Тгипк	O Excluded O Forbic	iden Olaggeo	Ontagged		
4 GE4	Irunk	O Excluded O Forbic	Iden O lagged	Untagged		
5 GE8	Trunk	O Excluded O Forbic	Iden O Taggeo	Untagged		
6 GE6	Trunk	O Excluded O Forbio	Iden O Taggeo	Untagged		
7 GE7	Trunk	O Excluded O Forbic	Iden O Taggeo	Untagged		
8 GE8	Trunk	O Excluded O Forbic	Iden O Taggeo	 Untagged 		
9 GE9	Trunk	O Excluded O Forbio	lden 🔿 Taggeo	Untagged		
10 GE1	0 Trunk	Excluded O Forbic	lden 🛛 🔘 Taggeo	Untagged		
11 GE1	1 Trunk	O Excluded O Forbio	lden 🛛 🔿 Taggeo	Untagged		
12 GE1	2 Trunk	Excluded O Forbic	lden 🛛 🔘 Taggeo	Untagged		
13 GE1	3 Trunk	O Excluded O Forbio	lden 🛛 Taggeo	Untagged		
14 GE1	4 Trunk	O Excluded O Forbic	lden 🛛 Taggeo	Untagged		
15 GE1	5 Trunk	O Excluded O Forbio	lden 🔿 Tagged	Untagged		
16 GE1	6 Trunk	O Excluded O Forbio	lden 🔿 Tagged	Untagged		
17 GE1	7 Trunk	O Excluded O Forbio	lden O Taggeo	Untagged		
18 GE1	8 Trunk	O Excluded O Forbio	Iden O Tagged	Untagged		
19 GE1	9 Trunk	O Excluded O Forbio	Iden O Tagged	Untagged		
20 GE2	0 Trunk	O Excluded O Forbic	Iden O Tagger	Untagged		
21 GE3	1 Trunk	O Excluded O Forbic	Iden O Tagger	Intagged		
22 05	2 Trunk	Contraction Contraction	iden Tagget			
22 002	2 Truck	CExcluded O Forbic	Iden Tagget			
20 002	M Trunk	Cexcluded Cronok				
24 062	G Truck	Cexcluded O Forbic	Iden O Taggeo			
25 GE2	D Trunk	C Excluded O Politik	iden Oraggeo	 Ontagged 		
26 GE2	to Trunk	O Excluded O Forbic	iden Olaggeo	Ontagged		
27 GE2	17 Trunk	O Excluded O Forbic	Iden O lagged	Untagged		
28 GE2	S Trunk	O Excluded O Forbic	iden O lagged	Untagged		
29 GE2	9 Trunk	O Excluded O Forbic	Iden O Taggeo	Untagged		
30 GE3	0 Trunk	Excluded O Forbic	Iden O Taggeo	Untagged		
31 GE3	1 Irunk	O Excluded O Forbid	den Olagged	Ontagged		
32 GE3	2 Trunk	O Excluded O Forbid	den Olagged	 Untagged 		
33 GE3	3 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
34 GE3	4 Trunk	O Excluded O Forbid	den O Tagged	 Untagged 		
35 GE3	5 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
36 GE3	6 Trunk	O Excluded O Forbid	den O Tagged	Untagged	5	
37 GE3	7 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
38 GE3	8 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
39 GE3	9 Trunk	O Excluded O Forbid	den 🔿 Tagged	 Untagged 		
40 GE4	0 Trunk	O Excluded O Forbid	den O Tagged	 Untagged 		
41 GE4	1 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
42 GE4	2 Trunk	Excluded O Forbid	den 🔍 Tagged	Untagged		
43 GE4	3 Trunk	O Excluded O Forbid	den 💛 Tagged	Untagged		
44 GE4	4 Trunk	Excluded O Forbid	den O Tagged	 Untagged 		
45 GE4	5 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
46 GE4	6 Trunk	O Excluded O Forbid	den O Tagged	Untagged	8	
47 GE4	7 Trunk	Excluded O Forbid	den 🔿 Tagged	Untagged		
48 GE4	8 Trunk	Excluded O Forbid	den 🔍 Tagged	Untagged		
49 10G	E1 Trunk	Excluded O Forbid	den 🛛 🔿 Tagged	Untagged		
50 10G	E2 Trunk	Excluded O Forbid	den 🔍 Tagged	Untagged		
51 10G	E3 Trunk	O Excluded O Forbid	den 🔿 Tagged	Untagged		
52 10G	E4 Trunk	Excluded O Forbid	den 🛛 Tagged	Untagged		
53 10G	E5 Trunk	O Excluded O Forbid	den 🔿 Tagged	Untagged		
54 10G	E6 Trunk	O Excluded O Forbid	den O Tagged	Untagged		
55 LAG	1 Trunk	O Excluded O Forbid	den 🔿 Tagged	Untagged		
56 LAG	2 Trunk	O Excluded O Forbid	den 🔿 Tagged	Untagged		
57 LAG	3 Trunk	O Excluded O Forbid	den 🛛 Tagged	Untagged		
58 LAG	4 Trunk	O Excluded O Forbid	den O Tagged	Ontagged	2	
59 LAG	5 Trunk	O Excluded O Forbid	den 🔿 Tagged	Untagged		
60 LAG	6 Trunk	Excluded O Forbid	den O Tagged	Untagged		
61 LAG	7 Trunk	O Excluded O Forbid	ten O Tagged	Untagged		

Item	Description
VLAN	Select specified VLAN ID to configure VLAN configuration.
Port	Display the interface of port entry.
Mode	Display the interface VLAN mode of port.
Membership	 Select the membership for this port of the specified VLAN ID. Forbidden: Specify the port is forbidden in the VLAN. Excluded: Specify the port is excluded in the VLAN. Tagged: Specify the port is tagged member in the VLAN. Untagged: Specify the port is untagged member in the VLAN.
PVID	Display if it is PVID of interface.

IV-5-1-3. Membership

This page allow user to view membership information for each port and edit membership for specified interface.

To display Membership page, click **VLAN > VLAN > Membership**.

Mem	perst	nip Tab	le			
		-				~
	intry	Ροπ	Mode	Administrative VLAN		
0	1	GE1	Trunk	1UP	10P	
0	2	GE2	Trunk	1UP	10P	
0	3	GE3	Trunk	1UP	10P	
0	4	GE4	Trunk	1UP	1UP	
O	5	GE5	Trunk	1UP	1UP	
0	6	GE6	Hybrid	1U, 3UP	1U, 3UP	
\bigcirc	7	GE7	Trunk	1UP	1UP	
\bigcirc	8	GE8	Hybrid	1UP	10P	
\odot	9	GE9	Trunk	1UP	10P	
0	10	GE10	Trunk	1UP	1UP	
\bigcirc	11	GE11	Trunk	1UP	1UP	
\odot	12	GE12	Trunk	1UP	1UP	
\bigcirc	13	GE13	Trunk	1UP	1UP	
0	14	GE14	Trunk	1UP	1UP	
\odot	15	GE15	Trunk	1UP	1UP	
0	16	GE16	Trunk	1UP	1UP	
\bigcirc	17	GE17	Trunk	1UP	1UP	
0	18	GE18	Trunk	1UP	1UP	
\odot	19	GE19	Trunk	1UP	1UP	
0	20	GE20	Trunk	1UP	1UP	
0	21	GE21	Trunk	1UP	10P	
0	22	GE22	Trunk	1UP	10P	
0	22	0500	Trunk	400	400	

ltem	Description			
Port	Display the interface of port entry.			
Mode	Display the interface VLAN mode of port.			
Administrative VLAN	Display the administrative VLAN list of this port.			
Operational VLAN	Display the operational VLAN list of this port. Operational VLAN means the VLAN status that really runs in device. It may different to administrative VLAN.			

Click "Edit" button to view the Edit Port Setting menu

Item	Description			
Port	Display the interface.			
Mode	Display the VLAN mode of interface.			
Membership	 Select VLANs of left box and select one of following membership then move to right box to add membership. Select VLANs of right box then move to left box to remove membership. Tagging membership may not choose in differ VLAN port mode. Select the time source. Forbidden: Set VLAN as forbidden VLAN. Excluded: This option is always disabled. Tagged: Set VLAN as tagged VLAN. Untagged: Set VLAN as untagged VLAN. PVID: Check this checkbox to select the VLAN ID to be the port-based VLAN ID for this port. PVID may auto select or can't select in differ settings. 			

IV-5-1-4. Port Setting

This page allow user to configure ports VLAN settings such as VLAN port mode, PVID etc...The attributes depend on different VLAN port mode.

To display Port Setting page, click VLAN > VLAN > Port Setting.

_								
	Entry	Port	Mode i	VID	Accept Frame Type Ingress Filte	ering Uplink	TPID	
	1	GE1	Trunk	1	All Enabled	Disabled	0x8100	
0	2	GE2	Trunk	1	All Enabled	Disabled	0x8100	
Ō	3	GE3	Trunk	1	All Enabled	Disabled	0x8100	
n	4	GE4	Trunk	1	All Enabled	Disabled	0x8100	
0	5	GE5	Trunk	1	All Enabled	Disabled	0x8100	
0	6	GE6	Trunk	4	All Enabled	Disabled	0v8100	
0	7	057	Trunk	-	All Enabled	Disabled	0~9100	
	,	OE/	Tauata		All Enabled	Disabled	0.0100	
	8	GE8	типк	-	All Enabled	Disabled	0x8100	
U	9	GE9	Trunk	1	All Enabled	Disabled	0x8100	
	10	GE10	Trunk	1	All Enabled	Disabled	0x8100	
	11	GE11	Trunk	1	All Enabled	Disabled	0x8100	
	12	GE12	Trunk	1	All Enabled	Disabled	0x8100	
	13	GE13	Trunk	1	All Enabled	Disabled	0x8100	
	14	GE14	Trunk	1	All Enabled	Disabled	0x8100	
	15	GE15	Trunk	1	All Enabled	Disabled	0x8100	
0	16	GE16	Trunk	1	All Enabled	Disabled	0x8100	
\Box	17	GE17	Trunk	1	All Enabled	Disabled	0x8100	
	18	GE18	Trunk	1	All Enabled	Disabled	0x8100	
Ū.	19	GE19	Trunk	1	All Enabled	Disabled	0x8100	
O O	20	GE20	Trunk	1	All Enabled	Disabled	0x8100	
0	21	GE21	Trunk	1	All Enabled	Disabled	0v8100	
	22	GE22	Trunk	- 4	All Enabled	Disabled	0v9100	
0	22	0522	Truck		All Enabled	Disabled	0+0400	
	23	GE23	TUIK		All Enabled	Disabled	0.0100	
U	24	GE24	Trunk	1	All Enabled	Disabled	0x8100	
\cup	25	GE25	Trunk	1	All Enabled	Disabled	0x8100	
0	26	GE26	Trunk	1	All Enabled	Disabled	0x8100	
	27	GE27	Trunk	1	All Enabled	Disabled	0x8100	
	28	GE28	Trunk	1	All Enabled	Disabled	0x8100	
	29	GE29	Trunk	1	All Enabled	Disabled	0x8100	
	30	GE30	Trunk	1	All Enabled	Disabled	0x8100	
	31	GE31	Trunk	1	All Enabled	Disabled	0x8100	
	32	GE32	Trunk	1	All Enabled	Disabled	0x8100	
	33	GE33	Trunk	1	All Enabled	Disabled	0x8100	
0	34	GE34	Trunk	1	All Enabled	Disabled	0x8100	
	35	GE35	Trunk	1	All Enabled	Disabled	0x8100	
n.	36	GE36	Trunk	1	All Enabled	Disabled	0x8100	
	37	GE37	Trunk	1	All Enabled	Disabled	0x8100	
	38	GE38	Trunk	1	All Enabled	Disabled	0x8100	
0	30	GE30	Trunk	1	All Enabled	Disabled	0v8100	
	40	GE40	Trunk	4	All Enabled	Disabled	0v9100	
	40	OE40	Trunk	4	All Enabled	Disabled	0x0100	
	41	0541	Touck		All Enabled	Disabled	0.0100	
U	42	GE42	Trunk	1	All Enabled	Disabled	0x8100	
U.	43	GE43	Trunk	1	All Enabled	Disabled	0x8100	
0	44	GE44	Trunk	1	All Enabled	Disabled	Ux8100	
	45	GE45	Trunk	1	All Enabled	Disabled	0x8100	
	46	GE46	Trunk	1	All Enabled	Disabled	0x8100	
	47	GE47	Trunk	1	All Enabled	Disabled	0x8100	
	48	GE48	Trunk	1	All Enabled	Disabled	0x8100	
	49	10GE1	Trunk	1	All Enabled	Disabled	0x8100	
0	50	10GE2	Trunk	1	All Enabled	Disabled	0x8100	
	51	10GE3	Trunk	1	All Enabled	Disabled	0x8100	
	52	10GE4	Trunk	1	All Enabled	Disabled	0x8100	
	53	10GE5	Trunk	1	All Enabled	Disabled	0x8100	
l n	54	10GE6	Trunk	1	All Enabled	Disabled	0x8100	
	55	LAG1	Trunk	1	All Enabled	Disabled	0x8100	
H	50	LAG2	Truck	4	All Enabled	Disabled	0v9100	
	57	1462	Trunk	4	All Coobles	Disabled	0v9100	
	50	LAGS	Tourk	-	All Enabled	Disabled	0.0100	
	56	LAG4	типк	1	All Enabled	Disabled	0.0100	
U	59	LAG5	irunk	1	All Enabled	Disabled	UX8100	
U	60	LAG6	rrunk	1	All Enabled	Disabled	ux8100	
	61	LAG7	Trunk	1	All Enabled	Disabled	0x8100	
	62	LAG8	Trunk	1	All Enabled	Disabled	0x8100	

~ -

Item	Description		
Port	Display the interface.		
Mode	Display the VLAN mode of interface.		
PVID	Display the Port-based VLAN ID of port.		
Accept Frame Type	Display accept frame type of port.		
Ingress Filtering	Display ingress filter status of port.		
Uplink	Display uplink status.		
TPID	Display TPID used of interface.		

Click "Edit" button to Edit Port Setting menu.

Edit Port Setting

Port	GE1
Mode	 Hybrid Access Trunk Tunnel
PVID	1 (1 - 4094)
Accept Frame Type	 All Tag Only Untag Only
Ingress Filtering	Enable
Uplink	Enable
TPID	0x8100 V
Apply Close	

Item	Description				
Port	Display selected port to be edited.				
Mode	 Select the VLAN mode of the interface. Forbidden: Set VLAN as forbidden VLAN. Hybrid: Support all functions as defined in IEEE 802.1Q specification. Access: Accepts only untagged frames and join an untagged VLAN. Trunk: An untagged member of one VLAN at most, and is a 				
PVID	tagged member of zero or more VLANs. Specify the port-based VLAN ID (1-4094). It's only available with Hybrid and Trunk mode				
Accepted Type	Specify the acceptable-frame-type of the specified interfaces. It's only available with Hybrid mode.				
Ingress Filtering	Set checkbox to enable/disable ingress filtering. It's only available with Hybrid mode.				
Uplink	Set checkbox to enable/disable uplink mode. It's only available with trunk mode.				
TPID	Select TPID used of interface. It's only available with trunk mode.				

IV-5-2. Voice VLAN

Use the Voice VLAN pages to configure settings of Voice VLAN.

IV-5-2-1. Property

This page allow user to configure global and per interface settings of voice VLAN.

To display Property Web page, click VLAN> Voice VLAN> Property.

	Sta	te 🔲 Enal	ble		
	VL	None None			
		Enal	ole		
	.057802 Remarki				
ļ			<u></u>		
Port	Aging Tir	ne 1440	in a Time	Min (30 - 65536, default 1440)	
i		Note. Ag	ing time	= Port Aging Time + OOLAging Time(30 mins)	
Apply					
	_				
Port Se	tina Ta	ble			
					Q
Ent	y Por	State	Mode	QoS Policy	
	1 GE1	Disabled	Auto	Voice Packet	
	2 GE2	Disabled	Auto	Voice Packet	
	3 GE3	Disabled	Auto	Voice Packet	
	4 GE4	Disabled	Auto	Voice Packet	
	5 GE5	Disabled	Auto	Voice Packet	
	6 GE6	Disabled	Auto	Voice Packet	
	7 GE7	Disabled	Auto	Voice Packet	
	8 GE8	Disabled	Auto	Voice Packet	
	9 GE9	Disabled	Auto	Voice Packet	
	0 GE1) Disabled	Auto	Voice Packet	
E -	1 GE1	Disabled	Auto	Voice Packet	
	2 GE1	2 Disabled	Auto	Voice Packet	
	3 GE1	B Disabled	Auto	Voice Packet	
	4 GE1	Disabled	Auto	Voice Packet	
	5 GE1	5 Disabled	Auto	Voice Packet	
	6 GE1	5 Disabled	Auto	Voice Packet	
	7 GE1	Disabled	Auto	Voice Packet	
	8 GE1	B Disabled	Auto	Voice Packet	
	9 LAG	Disabled	Auto	Voice Packet	

Item	Description			
State	Set checkbox to enable or disable voice VLAN function.			
VLAN	Select Voice VLAN ID. Voice VLAN ID cannot be default VLAN.			
Cos/802.1n	Select a value of VPT. Qualified packets will use this VPT value as			
C03/802.1p	inner priority.			
Remarking	Set checkbox to enable or disable 1p remarking. If enabled, qualified			
Kennarking	packets will be remark by this value.			
	Input value of aging time. Default is 1440 minutes. A voice VLAN			
Aging Time	entry will be age out after this time if without any packet pass			
	through.			
Port Setting T	able			
Port	Display port entry.			
State	Display enable/disabled status of interface.			
Mode	Display voice VLAN mode.			
QoS Policy	Display voice VLAN remark will effect which kind of packet.			

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1
State	Enable
Mode	 Auto Manual
QoS Policy	 Voice Packet All
Apply	Close

Item	Description	
Port	Display selected port to be edited.	
State	Set checkbox to enable/disabled voice VLAN function of interface.	
Mode	 Select port voice VLAN mode Auto: Voice VLAN auto detect packets that match OUI table and add received port into voice VLAN ID tagged member. Manual: User need add interface to VLAN ID tagged member manually. 	
QoS Policy	 Select port QoS Policy mode Voice Packet: QoS attributes are applied to packets with OUIs in the source MAC address. All: QoS attributes are applied to packets that are classified to Voice VLAN. 	

IV-5-2-2. Voice OUI

This page allow user to add, edit or delete OUI MAC addresses. Default has 8 pre-defined OUI MAC.

To display the Voice OUI Web page, click VLAN > Voice VLAN > Voice OUI.

Voice OUI Table

Show	ing All 🔻 en	tries	Showing 1 to 8 of 8 entries	Q	
	OUI	Description			
	00:E0:BB	3COM			
	00:03:6B	Cisco			
	00:E0:75	Veritel			
	00:D0:1E	Pingtel			
	00:01:E3	Siemens			
	00:60:B9	NEC/Philips			
	00:0F:E2	H3C			
	00:09:6E	Avaya			
	Add	Edit Dele	ete	First Previous	1 Next Last

ltem	Description
OUI	Display OUI MAC address.
Description	Display description of OUI entry.

Click "Add" or "Edit" button to Add/Edit Voice OUI menu.

Add Voice OUI

OUI : : Description	
Apply Close Edit Voice OUI	
OUI 00:03:6B Description Cisco	
Apply Close	

Item	Description
OUI	Input OUI MAC address. Can't be edited in edit dialog.
Description	Input description of the specified MAC address to the voice VLAN OUI table.

IV-5-3. Protocol VLAN

Use the Protocol VLAN pages to configure settings of Protocol VLAN.

IV-5-3-1. Protocol Group

This page allow user to add or edit groups settings of Protocol VLAN.

To display the Protocol page, click VLAN > Protocol VLAN > Protocol Group.

Protocol Group Table		
Showing All v entries	Showing 0 to 0 of 0 entries	Q
Group ID Frame Type Protocol Value	0 results found.	
Add Edit Delete		First Previous 1 Next Last

ltem	Description
Group ID	Display group ID of entry.
	This function maps packets to protocol-defined VLAN by
Frame Type	examining the type octet within the packet header to
	discover the type of protocol associated with it.
Protocol Value	Display the Ether type of the target protocol.

Click "**Add**" button or "**Edit**" button to view Add/Edit MAC menu.

Group ID	1~		
Frame Type	Ethernet_II V		
Protocol Value	0x	(0x600 ~ 0xFFFE)	

ltem	Description
Group ID	Input group ID that is a unique ID of group entry. The range
	from 1 to8. Only available on Add Dialog.
	Select a frame type (Ethernet_II, IEEE802.3_LLC_Other,
	RFC_1042) for Group ID.
	 Ethernet_II: Packet type is Ethernet version 2.
	 - IEEE802.3_LLC_Other: packet type is 802.3 packet with LLC
	other header.
Frame Type	 RFC_1042: This RFC specifies a standard method of
	encapsulating the Internet Protocol (IP) datagrams and
	Address Resolution Protocol (ARP) requests and replies on
	IEEE 802 Networks to allow compatible and interoperable
	implementations. This RFC specifies a protocol standard for
	the Internet community.
Protocol Value	Input the Ether type of the target protocol.

IV-5-3-2. Group Binding

This page allow user to bind VLAN group to each port with Group ID.

To display Group Binding page, click VLAN> Protocol VLAN > Group Binding.

Group Binding Table		
Showing All v entries	Showing 0 to 0 of 0 entries	Q
Port Group ID VLAN		
	0 results found.	
Add Edit Delete		First Previous 1 Next Last

Item	Description
Port	Display port ID that binding with group entry.
Group ID	Display group ID that port binding with.
VLAN	Display VLAN ID that assign to packets which match group.

Click "Add" or "Edit" button to view the Add/Edit Group Binding menu.

Add Group Binding

	Available Port Selected Port
Port	
	Note: Only VLAN Hybrid port can be set Protocol VLAN
Group ID	None 🗸
VLAN	(1 - 4094)
Apply	Close

Item	Description
Port	Select ports in left box then move to right to binding with group. Or select ports in right box then move to left to unbind with group. Only interface has hybrid VLAN mode can be selected and bound with protocol group. Only available on Add dialog.
Group ID	Select a Group ID to associate with port. Only available on Add dialog.
VLAN	Input VLAN ID that will assign to packets which match group.

IV-5-4. MAC VLAN

Use the MAC VLAN pages to configure settings of MAC VLAN.

IV-5-4-1. MAC Group

This page allow user to add or edit groups settings of MAC VLAN.

To display the MAC page, click **VLAN > MAC VLAN > MAC Group**.

MAC Group Table

Showing All entries		Show	ring 0 to 0 of 0 entries	Q	
Group ID	MAC Address	Mask			
			0 results found.		
Add	Edit	Delete		First Previ	ous 1 Next Last

Item	Description
Group ID	Display group ID of entry.
MAC Address	Display mac address of entry.
Mask	Display mask of mac address for classified packet.

Click "**Add**" button or "**Edit**" button to view Add/Edit MAC menu.

Add MAC Group

Group ID	(1 - 2147483647)		
MAC Address			
Mask	(9 - 48)		
Apply Close Edit MAC Group			
Group ID undefined			
MAC Address			
Mask	(9 - 48)		
Apply Close			

Item	Description
Group ID	Input group ID that is a unique ID of mac group entry. The range from 1 to 2147483647. Only available on Add Dialog.
MAC Address	Input mac address for classifying packets.
Mask	Input mask of mac address.

IV-5-4-2. Group Binding

This page allow user to bind MAC VLAN group to each port with VLAN ID.

To display Group Binding page, click VLAN> MAC VLAN > Group Binding.

Group Binding Table

Showing All entries	Showing 0 to 0 of 0 entries	Q
Port Group ID VLAN		
	0 results found.	
Add Edit	Delete	First Previous 1 Next Last

Item	Description
Port	Display port ID that binding with MAC group entry.
Group ID	Display group ID that port binding with.
	Display VLAN ID that assign to packets which match MAC
VLAN	group.

Click "Add" or "Edit" button to view the Add/Edit Group Binding menu.

Add Group Binding

	Available Port Selected Port		
Port			
	Note: Only VLAN Hybrid port can be set MAC VLAN		
Group ID	None 🔻		
VLAN	(1 - 4094)		
Apply	Apply Close		

Edit Group Binding

Port	
Group ID	
VLAN	(1 - 4094)
Apply	Close

ltem	Description
Port	Select ports in left box then move to right to binding with MAC group. Or select ports in right box then move to left to unbind with MAC group. Only interface has hybrid VLAN mode can be selected and
	bound with protocol group. Only available on Add dialog.
Group ID	Select a Group ID to associate with port. Only available on Add dialog.
VLAN	Input VLAN ID that will assign to packets which match MAC group.

IV-5-5. Surveillance VLAN

Use the Surveillance VLAN pages to configure settings of Surveillance VLAN.

IV-5-5-1. Property

State	Enable
VLAN	None 🗸
CoS / 802.1p Remarking	☐ Enable 6 ✔
Port Aging Time	1440Min (30 - 65536, default 1440)Note: Aging Time = Port Aging Time + OUI Aging Time(30 mins)
Apply	

Port Setting Table

						Q
	intry	Port	State	Mode	QoS Policy	
	1	GE1	Disabled	Auto	Video Packet	
ō	2	GE2	Disabled	Auto	Video Packet	
0	3	GE3	Disabled	Auto	Video Packet	
0	4	GE4	Disabled	Auto	Video Packet	
	5	GE5	Disabled	Auto	Video Packet	
	6	GE6	Disabled	Auto	Video Packet	
	7	GE7	Disabled	Auto	Video Packet	
0	8	GE8	Disabled	Auto	Video Packet	
	9	GE9	Disabled	Auto	Video Packet	
	10	GE10	Disabled	Auto	Video Packet	
	11	GE11	Disabled	Auto	Video Packet	
U	12	GE12	Disabled	Auto	Video Packet	
	14	GE13	Disabled	Auto	Video Packet	
	15	GE15	Disabled	Auto	Video Takisi Video Paket	
	16	GE16	Disabled	Auto	Video Packet	
	17	GE17	Disabled	Auto	Video Packet	
n	18	GE18	Disabled	Auto	Video Packet	
	19	GE19	Disabled	Auto	Video Packet	
0	20	GE20	Disabled	Auto	Video Packet	
	21	GE21	Disabled	Auto	Video Packet	
	22	GE22	Disabled	Auto	Video Packet	
	23	GE23	Disabled	Auto	Video Packet	
	24	GE24	Disabled	Auto	Video Packet	
	25	GE25	Disabled	Auto	Video Packet	
	26	GE26	Disabled	Auto	Video Packet	
	27	GE27	Disabled	Auto	Video Packet	
	28	GE28	Disabled	Auto	Video Packet	
	29	GE29	Disabled	Auto	Video Packet	
	31	GE31	Disabled	Auto	Video Parket	
	33	GE33	Disabled	Auto	Video Takita	
	34	GE34	Disabled	Auto	Viele Parket	
	35	GE35	Disabled	Auto	Video Packet	
0	36	GE36	Disabled	Auto	Video Packet	
	37	GE37	Disabled	Auto	Video Packet	
	38	GE38	Disabled	Auto	Video Packet	
	39	GE39	Disabled	Auto	Video Packet	
	40	GE40	Disabled	Auto	Video Packet	
	41	GE41	Disabled	Auto	Video Packet	
	42	GE42	Disabled	Auto	Video Packet	
	43	GE43	Disabled	Auto	Video Packet	
	44	GE44	Disabled	Auto	Video Packet	
U	45	GE45	Disabled	Auto	Video Packet	
U	46	GE46	Disabled	Auto	Video Parket	
	47	GE47	Disabled	Auto		
	40	10GE4	Disabled	Auto	View rained	
	40 50	10GE2	Disabled	Auto	Video Parket	
	51	10GE3	Disabled	Auto	Video Packet	
0	52	10GE4	Disabled	Auto	Video Packet	
0	53	10GE5	Disabled	Auto	Video Packet	
Ō	54	10GE6	Disabled	Auto	Video Packet	
	55	LAG1	Disabled	Auto	Video Packet	
0	56	LAG2	Disabled	Auto	Video Packet	
	57	LAG3	Disabled	Auto	Video Packet	
	58	LAG4	Disabled	Auto	Video Packet	
	59	LAG5	Disabled	Auto	Video Packet	
	60	LAG6	Disabled	Auto	Video Packet	
	61	LAG7	Disabled	Auto	Video Packet	
	62	LAG8	Disabled	Auto	Video Packet	

Edit	

Item	Description		
State	Enable/Disable		
VLAN	Choose none or indicate VLAN		
CoS/802.1P Remarking	The 802.1p standard defines seven levels of CoS from 0 through to 7 (highest priority). 802.1p is a sub-set of the 802.1q standard which added additional fields into the header of a standard Ethernet frame allowing it to contain VLAN identifiers as well as the priority values		
Port Aging Time	When aging is configured on an interface that's using port security, all the dynamically learned secure addresses age out when the aging time expire		

To display Port Setting page, click the "Edit" button.

Edit Port Setting

Port	GE1		
State	Enable		
Mode	● Auto● Manual		
QoS Policy	 Video Packet All 		
Apply Close			

Item	Description
Port	Display port entry.
State	Display enable/disabled status of interface.
Mode	Display voice VLAN mode.
QoS Policy	Display voice VLAN remark will effect which kind of packet.

IV-5-5-2. Surveillance OUI

Su	Surveillance OUI Table					
Sho	wing All 🔹 en	tries		Showing 1 to 2 of 2 entries	Q	
	Description	OUI	OUI Mask			
E	DAhua	74:DA:38:00:00:00	FF-FF-FF-00-00-00			
E	DH IP cam	50:DE:19:00:00:00	FF-FF-FF-00-00-00			
	Add	Edit Dele	ete		First Previous 1 Next Last	

ltem	Description
OUI	An organizationally unique identifier (OUI) is a 24-bit number that uniquely identifies a vendor, manufacturer, or other organization In MAC addresses, the OUI is combined with a 24-bit number (assigned by the assignee of the OUI) to form the address.
OUI Mask	Specifies a set of MAC addresses using a bit mask to indicate the bits of the MAC addresses that must fit to the specified MAC address attribute.

To change the description of your IP camera, click the "Edit" button.

dit Surveillance	OUI	
OUI Description	74:DA:38:00:00:00	
Apply	Close	

IV-6. MAC Address Table

Use the MAC Address Table pages to show dynamic MAC table and configure settings for static MAC entries.

IV-6-1. Dynamic Address

To display the Dynamic Address web page, click **MAC Address Table > Dynamic Address**.

Aging Time 300		Sec (10 - 630, default 300)			
Apply					
Dynamic Address Table					
Showing All entries	SI	nowing 1 to 1 of 1 entries	Q		
VLAN MAC Address	Port				
1 B8:6B:23:6D:C1:14	GE28				
Clear Refresh Add Static Address					

Item	Description
Aging Time	The time in seconds that an entry remains in the MAC address table. Its valid range is from 10 to 630 seconds, and the default value is 300 seconds.

IV-6-2. Static Address

To display the Static Address web page, click **MAC Address Table > Static Address**.

Static Address Table					
Showing All entries	Showing 0 to 0 of 0 entries	Q			
VLAN MAC Address	Port				
	0 results found.				
Add Edit	Delete	First Previous 1 Next Last			

Item	Description
MAC Address	The MAC address to which packets will be statically forwarded.
VLAN	Specify the VLAN to show or clear MAC entries.
Port	Interface or port number.

IV-6-3. Filtering Address

To display the Filtering Address web page, click **MAC Address Table > Filtering Address**.

Filtering Address Table

Showing All entries	Showing 0 to 0 of 0 entries	Q
VLAN MAC Address		
	0 results found.	
Add Edit	Delete	First Previous 1 Next Last

Item	Description
MAC Address	Specify unicast MAC address in the packets to be dropped.
VLAN	Specify the VLAN to show or clear MAC entries.

IV-7. Spanning Tree

The Spanning Tree Protocol (STP) is a network protocol that ensures a loop-free topology for any bridged Ethernet local area network.

IV-7-1. Property

To display the Property web page, click **Spanning Tree > Property**.

State	Enable	
State		
Operation Mode	RSTP	
	MSTP	
Dath Cost	Long	
Paul Cost	Short	
BPDU Handling	Filtering	
	Flooding	
Driority	22700	(0. 61440. dofout 22760)
Phonty	32768	(0 - 61440, delault 32768)
Hello Time	2	Sec (1 - 10, default 2)
Max Age	20	Sec (6 - 40, default 20)
Forward Delay	15	Sec (4 - 30, default 15)
Tx Hold Count	6	(1 - 10, default 6)
Region Name	74:DA:38:17:6E:7A	
Revision	0	(0 - 65535 default 0)
Мах Нор	20	(1 - 40, default 20)
Operational Status		
Bridge Identifiter	32768-74:DA:38:17:6E:7A	
Designated Root Bridge	0-00:00:00:00:00:00	
Root Port	N/A	
Root Path Cost	0	
Topology Change Count	0	
Last Topology Change	0D/0H/0M/0S	

Apply

ltem	Description
State	Enable/disable the STP on the switch.
Operation	Specify the STP operation mode.
Mode	 STP: Enable the Spanning Tree (STP) operation.

	 RSTP: Enable the Rapid Spanning Tree (RSTP) operation. 			
	 MSTP: Enable the Multiple Spanning Tree (MSTP) operation. 			
	Specify the path cost method.			
	 Long: Specifies that the default port path costs are within the 			
Path Cost	range: 1-200,000,000.			
	 Short: Specifies that the default port path costs are within the 			
	range: 1-65,535.			
BPDU	Specify the BPDU forward method when the STP is disabled.			
Handling	 Filtering: Filter the BPDU when STP is disabled. 			
	 Flooding: Flood the BPDU when STP is disabled. 			
	Specify the bridge priority. The valid range is from 0 to 61440, and the			
	value should be the multiple of 4096. It ensures the probability that			
Priority	the switch is selected as the root bridge, and the lower value has the			
	higher priority for the switch to be selected as the root bridge of the			
	topology.			
	Specify the STP hello time in second to broadcast its hello message to			
Hello Time	other bridges by Designated Ports. Its valid range is from 1 to 10			
	seconds.			
	Specify the time interval in seconds for a switch to wait the			
Max Age	configuration messages, without attempting to redefine its own			
	configuration.			
Forward	Specify the STP forward delay time, which is the amount of time that			
Delay	a port remains in the Listening and Learning states before it enters			
	the Forwarding state. Its valid range is from 4 to 10 seconds.			
TX Hold	Specify the tx-hold-count used to limit the maximum numbers of			
Count	packets transmission per second. The valid range is from 1 to 10.			
Region	The MSTP instance name. Its maximum length is 32 characters. The			
Name	default value is the MAC address of the switch.			
Revision	The MSTP revision number. Its valid rage is from 0 to 65535.			
Max Hop	Specify the number of hops in an MSTP region before the BPDU is			
	discarded. The valid range is 1 to 40.			
Operational Status				
Bridge	Bridge identifier of the switch.			
Identifier				
Designated				
Root	Bridge identifier of the designated root bridge.			
Identifier				
Root Port	Operational root port of the switch.			
Root Path	Operational root path cost			
Cost				
Topology	Numbers of the topology changes			
Change	Numbers of the topology changes.			

Count	
Last Topology Change	The last time for the topology change.

IV-7-2. Port Setting

To configure and display the STP port settings, click **STP > Port Setting**.

Port Setting Table

												Q	
Entry	Port	State	Path Cost	Priority	BPDU Filter	BPDU Guard	Operational Edge	Operational Point-to-Point	Port Role	Port State	Designated Bridge	Designated Port ID	Designated Cost
1	GE1	Enabled	20000	128	Disabled	Disabled	Disabled	Enabled	Root	Forwarding	32768-2C:FA:A2:5C:2D:62	128-1	20000
2	GE2	Enabled	200000	128	Disabled	Disabled	Disabled	Enabled	Designated	Forwarding	32768-FC:8F:C4:0D:1A:B5	128-2	200000
3	GE3	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-3	20000
4	GE4	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-4	20000
5	GE5	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-5	20000
6	GE6	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-6	20000
7	GE7	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-7	20000
8	GE8	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-8	20000
9	GE9	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-9	20000
10	GE10	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-10	20000
11	GE11	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-11	20000
12	GE12	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-12	20000
13	GE13	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-13	20000
14	GE14	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-14	20000
15	GE15	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-15	20000
16	GE16	Enabled	200000	128	Disabled	Disabled	Disabled	Enabled	Designated	Forwarding	32768-FC:8F:C4:0D:1A:B5	128-16	200000
17	GE17	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-17	20000
18	GE18	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-18	20000
19	GE19	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-19	20000
20	GE20	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-20	20000
21	GE21	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-21	20000
22	GE22	Enabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-22	20000

Item	Description
Port	Specify the interface ID or the list of interface IDs.
State	The operational state on the specified port.
Path Cost	STP path cost on the specified port.
Priority	STP priority on the specified port.
BPDU Filter	The states of BPDU filter on the specified port.
BPDU Guard	The states of BPDU guard on the specified port.
Operational Edge	The operational edge port status on the specified port.
Operational Point-to-Point	The operational point-to-point status on the specified port.
Port Role	The current port role on the specified port. The possible values are: "Disabled", "Master", "Root", "Designated", "Alternative", and "Backup".
Port State	The current port state on the specified port. The possible values are: "Disabled", "Discarding", "Learning", and "Forwarding".
Designated	The bridge ID of the designated bridge.

Bridge	
Designated Port ID	The designated port ID on the switch.
Designated Cost	The path cost of the designated port on the switch.
Protocol Migration Check	Restart the Spanning Tree Protocol (STP) migration process (re-negotiate with its neighborhood) on the specific interface.

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1
State	Enable
Path Cost	0 (0 - 20000000) (0 = Auto)
Priority	128 🔻
Edge Port	Enable
BPDU Filter	Enable
BPDU Guard	Enable
Point-to-Point	 Auto Enable Disable
Port State	Disabled
Designated Bridge	0-00:00:00:00:00
Designated Port ID	128-1
Designated Cost	20000
Operational Edge	False
Operational Point-to-Point	False
Apply Close	

Item	Description
Port	Selected port ID.
State	Enable/Disable the STP on the specified port.

Path Cost	Specify the STP path cost on the specified port.			
Priority	Specify the STP path cost on the specified port.			
	Specify the edge mode.			
	 Enable: Force to true state (as link to a host). 			
	 Disable: Force to false state (as link to a bridge). 			
Edge Port	In the edge mode, the interface would be put into the			
Lugeron	Forwarding state immediately upon link up. If the edge			
	mode is enabled for the interface and there are BPDUs			
	received on the interface, the loop might be occurred in the			
	short time before the STP state change.			
	The BPDU Filter configuration avoids receiving / transmitting			
RDDU Filtor	BPDU from the specified ports.			
	 Enable: Enable BPDU filter function. 			
	 Disable: Disable BPDU filter function. 			
	The BPDU Guard configuration to drop the received BPDU			
PDDL Guard	directly.			
BPDO Guaru	 Enable: Enable BPDU guard function. 			
	 Disable: Disable BPDU guard function. 			
	Specify the Point-to-Point port configuration:			
	 Auto: The state is depended on the duplex setting of the 			
Point-to-Point	port			
	 Enable: Force to true state. 			
	 Disable: Force to false state 			

IV-7-3. MST Instance

To configure MST instance setting, click **STP > MST Instance**.

							Q	
	MSTI	Priority	Bridge Identifiter	Designated Root Bridge	Root Port	Root Path Cost	Remaining Hop	VLAN
	0	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	1-4094
\bigcirc	1	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	2	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	3	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	4	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	5	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	6	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	7	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	8	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	9	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	10	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	11	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	12	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	13	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	14	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	
\bigcirc	15	32768	32768-74:DA:38:17:6E:7A	0-00:00:00:00:00:00	N/A	0	0	

Edit

Item	Description			
MSTI	Designated port number.			
Priority	The bridge priority on the specified MSTI.			
Bridge Identifier	The bridge identifier on the specified MSTI.			
Designated Root	The designated reat bridge identifier on the specified MST			
Bridge	The designated root bridge identifier on the specified MSTI.			
Root Port	The designated root port on the specified MSTI.			
Root Path Cost	The designated root path cost on the specified MSTI.			
Remaining Hop	The configuration of remaining hop on the specified MSTI.			
VLAN	The VLAN configuration on the specified MSTI.			

Click "Edit" button to view Edit MST Instance menu.

Edit MST Instance Setting

MSTI	1
VLAN	Available VLAN Selected VLAN 1 2 3 4 5 6 7 8
Priority	32768 (0 - 61440, default 32768)
Bridge Identifiter Designated Root Bridge Root Port Root Path Cost Remaining Hop	32768-74:DA:38:17:6E:7A 0-00:00:00:00:00 0 0
Apply Close	

Item	Description
VLAN	Select the VLAN list for the specified MSTI.
Priority	Specify the bridge priority on the specified MSTI. The valid range is from 0 to 61440, and the value must be the multiple of 4096. It ensures the probability that the switch is selected as the root bridge, and the lower values has the higher priority for the switch to be selected as the root bridge of the STP topology.

IV-7-4. MST Port Setting

To configure and display MST port setting, click **STP > MST Port Setting**.

_												-*1
	Entry Port	Path Cost	Priority	Port Role	Port State	Mode	Туре	Designated Bridge	Designated Port ID	Designated Cost	Remaining Hop	
	1 GE1	20000	128	Root	Forwarding	RSTP	Boundary	32768-2C:FA:A2:5C:2D:62	128-1	20000	20	
	2 GE2	200000	128	Designated	Forwarding	RSTP	Boundary	32768-FC:8F:C4:0D:1A:B5	128-2	200000	20	
	3 GE3	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-3	20000	20	
	4 GE4	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-4	20000	20	
	5 GE5	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-5	20000	20	
	6 GE6	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-6	20000	20	
	7 GE7	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-7	20000	20	
	8 GE8	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-8	20000	20	
	9 GE9	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-9	20000	20	
	10 GE10	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-10	20000	20	
	11 GE11	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-11	20000	20	
	12 GE12	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-12	20000	20	
	13 GE13	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-13	20000	20	
	14 GE14	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-14	20000	20	
	15 GE15	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-15	20000	20	
	16 GE16	200000	128	Designated	Forwarding	RSTP	Boundary	32768-FC:8F:C4:0D:1A:B5	128-16	200000	20	
	17 GE17	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-17	20000	20	
	18 GE18	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-18	20000	20	
	19 GE19	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-19	20000	20	
	20 GE20	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-20	20000	20	
	21 GE21	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-21	20000	20	
	22 GE22	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-22	20000	20	
	23 GE23	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-23	20000	20	
	24 GE24	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-24	20000	20	
	25 XGE1	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-25	2000	20	
	26 XGE2	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-26	2000	20	
	27 XGE3	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-27	2000	20	
	28 XGE4	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-28	2000	20	
	29 LAG1	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-29	20000	20	
	30 LAG2	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-30	20000	20	
	31 LAG3	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-31	20000	20	
	32 LAG4	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-32	20000	20	
	33 LAG5	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-33	20000	20	
	34 LAG6	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00	128-34	20000	20	
	35 LAG7	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-35	20000	20	
	36 LAG8	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-36	20000	20	
	_											
Eat												

Item	Description					
MSTI	Specify the port setting on the specified MSTI.					
Port	Specify the interface ID or the list of interface IDs.					
Path Cost	The port path cost on the specified MSTI.					
Priority	The port priority on the specified MSTI.					
Port Role	The current port role on the specified port. The possible values are: "Disabled", "Master", "Root", "Designated", "Alternative", and "Backup".					
Port State	The current port state on the specified port. The possible values are: "Disabled", "Discarding", "Learning", and "Forwarding".					
Mode	The operational STP mode on the specified port.					
Туре	 The possible value for the port type are: Boundary: The port attaching an MST Bridge to a LAN that is not in the same region. Internal: The port attaching an MST Bridge to a LAN that is not in the same region. 					
Designated Bridge	The bridge ID of the designated bridge.					
Designated Port ID	The designated port ID on the switch.					
Designated Cost	The path cost of the designated port on the switch.					
Remaining Hop	The remaining hops count on the specified port.					

Click "Edit" button to view Edit MST Port Setting menu.

Edit MST Port Setting

MSTI Port	0 GE1	
Path Cost	0	(0 - 20000000) (0 = Auto)
Priority	128 🔻	
Port Role	Disabled	
Port State	Disabled	
Mode	RSTP	
Туре	Boundary	
Designated Bridge	0-00:00:00:00:00:00	
Designated Port ID	128-1	
Designated Cost	20000	
Remaining Hop	20	
Apply Close		

Item	Description
Path Cost	Specify the STP port path cost on the specified MSTI.
Priority	Specify the STP port priority on the specified MSTI.

IV-7-5. Statistics

To display the STP statistics, click **STP > Statistics**.
Entry	,	Port	Receiv	e BPDL	J	Trans	mit E	BPDU
		Cont GE1		0 58	0479	oning		MISIP 28
	2 0	GE2	0	0 00	0 0	0	0	560493
	3 (GE3	0	0	0	0	0	0
	- 	GE4	0	0	0	0	0	0
- E	5 (GE5	0	0	0	0	0	0
- e	3 (GE6	0	0	0	0	0	186
m 7	7 (GE7	0	0	0	0	0	0
E 8	3 (GE8	0	0	0	0	0	0
		GE9	0	0	0	0	0	0
10		GE10	0	0	0	0	0	0
11	1 (GE11	0	0	0	0	0	0
12	2 (GE12	0	0	0	0	0	0
13	3 (GE13	0	0	0	0	0	0
14	4 0	GE14	0	0	0	0	0	0
15	5 (GE15	0	0	0	0	0	0
10		GE16	0	0	0	0	0	209558
17	7 (GE17	0	0	0	0	0	0
18		GE18	0	0	0	0	0	0
19		GE19	0	0	0	0	0	0
20		GE20	0	0	0	0	0	0
21	1 4	GE21	0	0	0	0	0	0
22	2 (GE22	0	0	0	0	0	0
23	3 (GE23	0	0	0	0	0	0
24	4 0	GE24	0	0	0	0	0	0
25	5 3	XGE1	0	0	0	0	0	0
26		XGE2	0	0	0	0	0	0
27	7 3	XGE3	0	0	0	0	0	0
28	3	XGE4	0	0	0	0	0	0
29	ə ı	LAG1	0	0	0	0	0	0
30		LAG2	0	0	0	0	0	0
31	1 1	LAG3	0	0	0	0	0	0
32	2 1	LAG4	0	0	0	0	0	0
33	3 1	LAG5	0	0	0	0	0	0
34	4 1	LAG6	0	0	0	0	0	0
35	5 1	LAG7	0	0	0	0	0	0
36	3 1	LAG8	0	0	0	0	0	0
	_							
Clear		Refresh) [v	iew]			

ltem	Description	
Refresh Rate	The option to refresh the statistics automatically.	
Receive BPDU (Config)	The counts of the received CONFIG BPDU.	
Receive BPDU (TCN)	The counts of the received TCN BPDU.	
Receive BPDU (MSTP)	The counts of the received MSTP BPDU.	
Transmit BPDU (Config)	The counts of the transmitted CONFIG BPDU.	
Transmit BPDU (TCN)	The counts of the transmitted TCN BPDU.	
Transmit BPDU (MSTP)	The counts of the transmitted MSTP BPDU.	
Clear	Clear the statistics for the selected interfaces	
View	View the statistics for the interface.	

Click "View" button to view the STP Port Statistic menu.

STP Port Statistic

Port	GE1
Refresh Rate	 None 5 sec 10 sec 30 sec
Receive BPDU	
Config	0
TCN	0
MSTP	0
Transmit BPDU	
Config	0
TCN	0
MSTP	0
Refresh	Clear Close

Item	Description
Refresh Rate	The option to refresh the statistics automatically.
Clear	Clear the statistics for the selected interfaces.

IV-8. Discovery

Use this section to configure LLDP.

IV-8-1. LLDP

LLDP (Link Layer Discovery Protocol) is a one-way protocol; there are no request/response sequences. Information is advertised by stations implementing the transmit function, and is received and processed by stations implementing the receive function. The LLDP category contains LLDP and LLDP-MED (Link Layer Discovery Protocol-Media Endpoint Discovery)pages.

IV-8-1-1. Property

To display LLDP Property Setting web page, click **Discovery > LLDP > Property**.

LLDP		
State	Enable	
LLDP Handling	FilteringBridgingFlooding	
TLV Advertise Interval	30	Sec (5 - 32767, default 30)
Hold Multiplier	4	(2 - 10, default 4)
Reinitializing Delay	2	Sec (1 - 10, default 2)
Transmit Delay	2	Sec (1 - 8191, default 2)
LLDP-MED Fast Start Repeat Count	3	(1 - 10, default 3)

Apply

ltem	Description		
State	Enable/ Disable LLDP protocol on this switch.		
LLDP Handling	 Select LLDP PDU handling action to be filtered, bridging or flooded when LLDP is globally disabled. Filtering: Deletes the packet. Bridging: (VLAN-aware flooding) Forwards the packet to all VLAN members. Flooding: Forwards the packet to all ports 		
TLV Advertise	Select the interval at which frames are transmitted. The default is		
Interval	30 seconds, and the valid range is 5–32767 seconds.		
Hold	Select the multiplier on the transmit interval to assign to TTL		
Multiplier	(range 2–10, default = 4).		
Reinitializing	Select the delay before a re-initialization (range 1–10 seconds,		
Delay	default = 2).		
Transmit	Select the delay after an LLDP frame is sent (range 1–8191		
Delay	seconds, default = 3).		
Fast Start	Select fast start repeat count when port link up (range 1–10,		
Repeat Count	default = 3).		

IV-8-1-2. Port Setting

To display LLDP Port Setting, click **Discovery > LLDP > Port Setting**.

_					~ 1
	Intry	Port	Mode	Selected TLV	
	1	GE1	Normal	802.1 PVID	
	2	GE2	Normal	802.1 PVID	
	3	GE3	Normal	802.1 PVID	
	4	GE4	Normal	802.1 PVID	
	5	GE5	Normal	802.1 PVID	
	6	GE6	Normal	802.1 PVID	
	7	GE7	Normal	802.1 PVID	
	8	GE8	Normal	802.1 PVID	
	9	GE9	Normal	802.1 PVID	
	10	GE10	Normal	802.1 PVID	
	11	GE11	Normal	802.1 PVID	
	12	GE12	Normal	802.1 PVID	
	13	GE13	Normal	802.1 PVID	
	14	GE14	Normal	802.1 PVID	
	15	GE15	Normal	802.1 P/ID	
	16	GE16	Normal	802.1 PVID	
	17	GE17	Normal	802.1 PVID	
	18	GE18	Normal		
	19	GE19	Normal	802.1 PVID	
	20	GE20	Normal	802.1 PVID	
	21	GE21	Normal	802.1 PVID	
	22	GE22	Normal	802.1 PVID	
	23	GE23	Normal	802.1 PVID	
	24	GE24	Normal	802.1 PVID	
	25	XGE1	Normal	802.1 PVID	
	26	XGE2	Normal	802.1 PVID	
	27	XGE3	Normal	802.1 PVID	
	28	XGE4	Normal	802.1 PVID	
Ed	it	1			

Item	Description
Port	Port Name.
Mode	The port LLDP mode.
Selected TLV	The Selected LLDP TLV.

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1	
Mode	 Transmit Receive Normal Disable 	
Optional TLV	Available TLV Selected TLV Port Description System Name System Description System Capabilities 802.3 MAC-PHY	
802.1 VLAN Name	Available VLAN Selected VLAN VLAN 2	

Apply

Close

ltem	Description
Port	Select specified port or all ports to configure LLDP state.
	Select the transmission state of LLDP port interface.
	 Disable: Disable the transmission of LLDP PDUs.
Mode	 RX Only: Receive LLDP PDUs only.
	 TX Only: Transmit LLDP PDUs only.
	 TX And RX: Transmit and receive LLDP PDUs both.
	Select the LLDP optional TLVs to be carried (multiple selection is
	allowed).
	 System Name
	 Port Description
Ontional	 System Description
	 System Capability
ILV	• 802.3 MAC-PHY
	 802.3 Link Aggregation
	 802.3 Maximum Frame Size
	 Management Address
	• 802.1 PVID.
802.1 VLAN	Select the VLAN Name ID to be carried (multiple selection is
Name	allowed).

IV-8-1-3. MED Network Policy

To display MED Network Policy Setting web page, click **Discovery > LLDP > MED Network Policy**.

Edit MED	Network	Policy

Policy ID	undefined		
Application	Voice	~	
VLAN	2	Range (1 - 4094)	
VLAN Tag	 Tagged Untagged 		
Priority	0 🗸		
DSCP	0 🗸		

ltem	Description
Policy ID	Showing the MED Network is defined or undefined.
Application	 Define an application for LLDP. Voice Voice Signaling Guest Voice Guest Voice Signaling Softphone Voice Video Conferencing Streaming Video Video Signaling
VLAN	Configure VLAN (Valid values are from 1 to 4094)
VLAN Tag	Define VLAN Tag (Tagged/Untagged). VLAN tagging is used to tell which packet belongs to which VLAN on the other side. To make recognition easier, a packet is tagged with a VLAN tag in the Ethernet frame.
Priority	Define the priority
DSCP	Enter a Differentiated Serves Code Point (DSCP)

IV-8-1-4. MED Port Setting

To display MED Network Policy Setting web page, click **Discovery > LLDP > MED Port** Setting.

		Potting	Table			
	113	serring	lable			
	I	_		Network Policy		
🔳 Ent	ry	Port	State	Active Application	Location	Inventory
	1	GE1	Enabled	Yes	No	No
0	2	GE2	Enabled	Ves	No	No
0	3	GE3	Enabled	Yes	No	No
0	4	GE4	Enabled	Yes	No	No
0	5	GE5	Enabled	Yes	No	No
	6	GE6	Enabled	Yes	No	No
	7	GE7	Enabled	Yes	No	No
	8	GE8	Enabled	Yes	No	No
n	9	GE9	Enabled	Yes	No	No
0 1	10	GE10	Enabled	Yes	No	No
0	11	GE11	Enabled	Yes	No	No
0 1	12	GE12	Enabled	Yes	No	No
	13	GE13	Enabled	Yes	No	No
<u>п</u> 1	14	GE14	Enabled	Yes	No	No
	15	GE15	Enabled	Yes	No	No
0 1	16	GE16	Enabled	Yes	No	No
0 1	17	GE17	Enabled	Yes	No	No
0 1	18	GE18	Enabled	Yes	No	No
	19	GE19	Enabled	Yes	No	No
0 2	20	GE20	Enabled	Yes	No	No
	21	GE21	Enabled	Yes	No	No
0 2	22	GE22	Enabled	Yes	No	No
	23	GE23	Enabled	Yes	No	No
	24	GE24	Enabled	Yes	No	No
	25	GE25	Enabled	Yes	No	No
	26	GE26	Enabled	Yes	No	No
	27	GE27	Enabled	Yes	No	No
	28	GE28	Enabled	Yes	No	No
	29	GE29	Enabled	Yes	No	No
0 3	30	GE30	Enabled	Yes	No	No

Item	Description
Entry	Entry of number.
Port	Port Name.
State	Status of LLDP (Enabled or Disabled).
Network Policy	Display LLDP whether active.
Location	MED location.
Inventory	MED Inventory.

Click "Edit" button to view MED Port Setting menu.

Edit MED Port Setting

Dort	GE1			
FUIL				
State	Enable			
	Available TLV	Sel	ected TLV	
Optional TLV	Location Extended Power-via-MDI Inventory	Ne	twork Policy	
	Available Policy	Sel	ected Policy	
Network policy				•
		- <		•
Location				
Coordinate			(16 pairs of he	xadecimal characters)
Civic			(6-160 pairs of	f hexadecimal characters)
ECS ELIN			(10-25 pairs of	f hexadecimal characters)
Apply Clo	se			

Item	Description
Port	Port Name.
State	Enable/ Disable MED Port on this switch.
Optional TLV	 Select the LLDP optional TLVs to be carried (multiple selection is allowed). Location Extended Power-via-MDI Inventory Network Policy
Network Policy	Select the Network Policy to be carried
Coordinate	Configures a coordinate-based location for an endpoint device.
Civic	Configures a civic-address-based location for Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED)
ECS ELIN	Configures an Emergency Call Service (ECS) based location for Link Layer Discovery Protocol Media Endpoint Device (LLDP-MED)

IV-8-1-5. Packet View

To display LLDP Overloading, click **Discovery > LLDP > Packet View**.

_					
	Entry	Port	In-Use (Bytes) Availal	ble (Bytes)	Operational Status
0	1	GE1	48	1440	Not Overloading
0	2	GE2	48	1440	Not Overloading
0	3	GE3	48	1440	Not Overloading
0	4	GE4	48	1440	Not Overloading
0	5	GE5	48	1440	Not Overloading
0	6	GE6	48	1440	Not Overloading
0	7	GE7	48	1440	Not Overloading
۲	8	GE8	48	1440	Not Overloading
0	9	GE9	48	1440	Not Overloading
\odot	10	GE10	49	1439	Not Overloading
0	11	GE11	49	1439	Not Overloading
0	12	GE12	49	1439	Not Overloading
0	13	GE13	49	1439	Not Overloading
0	14	GE14	49	1439	Not Overloading
0	15	GE15	49	1439	Not Overloading
0	16	GE16	49	1439	Not Overloading
0	17	GE17	49	1439	Not Overloading
0	18	GE18	65	1423	Not Overloading
0	19	GE19	49	1439	Not Overloading
0	20	GE20	49	1439	Not Overloading
0	21	GE21	49	1439	Not Overloading
0	22	GE22	49	1439	Not Overloading
0	23	GE23	49	1439	Not Overloading
0	24	GE24	49	1439	Not Overloading
0	25	XGE1	49	1439	Not Overloading
0	26	XGE2	49	1439	Not Overloading
0	27	XGE3	49	1439	Not Overloading
Ø	28	XGE4	49	1439	Not Overloading

Detail

Item	Description
Port	Port Name.
In-Use (Bytes)	Total number of bytes of LLDP information in each packet.
Available	Total number of available bytes left for additional LLDP
(Bytes)	information in each packet.
Operational	Overleading or not
Status	

Click "**Detail**" button to view Packet View Detail menu.

Packet View Detail

Port	GE1
Mandatory TLVs Size (Bytes) Operational Status	21 Transmitted
MED Capabilities Size (Bytes) Operational Status	9 Transmitted
MED Location Size (Bytes) Operational Status	0 Transmitted
MED Network Policy Size (Bytes) Operational Status	10 Transmitted
MED Inventory Size (Bytes) Operational Status	0 Transmitted
MED Extended Power Size (Bytes) Operational Status	via MDI 0 Transmitted
802.3 TLVs Size (Bytes) Operational Status	0 Transmitted

Optional TLVs	
Size (Bytes)	0
Operational Status	Transmitted
802.1 TLVs	
Size (Bytes)	8
Operational Status	Transmitted
Total	
In-Use (Bytes)	48
Available (Bytes)	1440

Item	Description
Port	Port Name.
Mandatory TLVs	Total mandatory TLV byte size. Status is sent or overloading.
MED Capabilities	Total MED Capabilities TLV byte size. Status is sent or overloading.
MED Location	Total MED Location byte size. Status is sent or overloading.
MED Network Policy	Total MED Network Policy byte size. Status is sent or overloading.
MED Inventory	Total MED Inventory byte size. Status is sent or overloading
MED Extended Power via MDI	Total MED Extended Power via MDI byte size. Status is sent or overloading.
802.3 TLVs	Total 802.3 TLVs byte size. Status is sent or overloading.
Optional TLVs	Total Optional TLV byte size. Status is sent or overloading.
802.1 TLVs	Total 802.1 TLVs byte size. Status is sent or overloading.
Total	Total number of bytes of LLDP information in each packet.

IV-8-1-6. Local Information

Use the LLDP Local Information to view LLDP local device information.

To display LLDP Local Device, click **Discovery > LLDP > Local Information**.

Device Summary

Chassis ID Subtype	MAC address
Chassis ID	FC:8F:C4:0D:1D:EC
System Name	Switch
System Description	GS-5216PLC
Supported Capabilities	Bridge
Enabled Capabilities	Bridge
Port ID Subtype	Local

Entry Port LL 1 GE1 No 2 GE2 No 3 GE3 No 4 GE4 No 5 GE5 No 6 GE6 No 7 GE7 No 8 GE8 No	LLDP State Normal Normal Normal Normal
1 GE1 N/ 2 GE2 N/ 3 GE3 N/ 4 GE4 N/ 5 GE5 N/ 6 GE6 N/ 7 GE7 N/ 8 GE8 N/	Normal Normal Normal Normal
2 GE2 No 3 GE3 No 4 GE4 No 5 GE5 No 6 GE6 No 7 GE7 No 8 GE8 No	Normal Normal Normal Normal
3 GE3 N/ 4 GE4 N/ 5 GE5 N/ 6 GE6 N/ 7 GE7 N/ 8 GE8 N/	Normal Normal Normal
4 GE4 No 5 GE5 No 6 GE6 No 7 GE7 No 8 GE8 No	Normal Normal
5 GE5 No 6 GE6 No 7 GE7 No 8 GE8 No	Normal
6 GE6 No 7 GE7 No 8 GE8 No	
7 GE7 No 8 GE8 No	Normal
8 GE8 No	Normal
	Normal
9 GE9 No	Normal
10 GE10 No	Normal
11 GE11 No	Normal
12 GE12 No	Normal
13 GE13 No	Normal
14 GE14 No	Normal
15 GE15 No	Normal
16 GE16 No	Normal
17 GE17 No	Normal
18 GE18 No	Normal
19 GE19 No	Normal
20 GE20 No	Normal
21 GE21 No	Normal
22 GE22 No	Normal
23 GE23 No	Normal
24 GE24 No	Normal
25 XGE1 No	Normal
26 XGE2 No	Normal
27 XGE3 NO	Normal
OD VOEA N	Normal

Item	Description
Chassis ID Subtype	Type of chassis ID, such as the MAC address.
Chassis ID	Identifier of chassis. Where the chassis ID subtype is a MAC address, the MAC address of the switch is displayed.
System Name	Name of switch.
System Description	Description of the switch.
Capabilities Supported	Primary functions of the device, such as Bridge, WLAN AP, or Router.
Capabilities Enabled	Primary enabled functions of the device.
Port ID Subtype	Type of the port identifier that is shown.
LLDP Status	LLDP Tx and Rx abilities.
LLDP Med Status	LLDP MED enable state.

Click "Detail" button on the page to view detail information of the selected port.

Local Information Detail

Chassis ID Subtype	MAC address
Chassis ID	74:DA:38:17:6E:7A
System Name	Switch
System Description	24-Port Gigabit PoE+ Smart Managed Switch with 4 RJ45/SFP Combo Ports
Supported Capabilities	Bridae
Enabled Capabilities	Bridge
Port ID	GE1
Port ID Subtype	Local
Port Description	
Management Address Table	
Address Subtype Address Interface Subt	ype Interface Number
0 results found.	
MAC/PHY Detail	
MAC/PHY Detail Auto-Negotiation Supported	N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled	N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities	N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail 802.3 Maximum Frame Size	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail 802.3 Maximum Frame Size 802.3 Link Aggregation	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail 802.3 Maximum Frame Size 802.3 Link Aggregation Aggregation Capability	N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail 802.3 Maximum Frame Size 802.3 Link Aggregation Aggregation Capability Aggregation Status	N/A N/A N/A N/A N/A
MAC/PHY Detail Auto-Negotiation Supported Auto-Negotiation Enabled Auto-Negotiation Advertised Capabilities Operational MAU Type 802.3 Detail 802.3 Maximum Frame Size 802.3 Link Aggregation Aggregation Capability Aggregation Status	N/A N/A N/A N/A N/A N/A

MED Detail	
Capabilities Supported	Capabilities , Network policy
Current Capabilities	Capabilities , Network policy
Device Class	Network Connectivity
PoE Device Type	N/A
PoE Power Source	N/A
PoE Power Priority	N/A
PoE Power Value	N/A
Hardware Revision	N/A
Firmware Revision	N/A
Software Revision	N/A
Serial Number	N/A
Manufacturer Name	N/A
Model Name	N/A
Asset ID	N/A
Location Information	
Civic	N/A
Coordinate	N/A
ECS ELIN	N/A
Network Policy Table	
Application Type VLAN VLAN Type Price	Shty DSCP

IV-8-1-7. Neighbor

Use the LLDP Neighbor page to view LLDP neighbors information.

To display LLDP Remote Device, click **Discovery > LLDP > Neighbor**.

Neighbor Table

Close

Showing All 🔻 e	ntries	Showing	0 to 0 of 0 entries			Q	
Local Port	Chassis ID Subtype	Chassis ID	Port ID Subtype	Port ID	System Name	Time to Live	
			0 results found				
Clear	Refresh Detail				Fir	st Previous	1 Next Last

Item	Description			
Local Port	Number of the local port to which the neighbor is connected.			
Chassis ID Subtype	Type of chassis ID (for example, MAC address).			
Port ID Subtype	Type of the port identifier that is shown.			
Port ID	Identifier of port.			
System Name	Published name of the switch.			
Time to Live	Time interval in seconds after which the information for this			
	neighbor is deleted.			

Click "detail" to view selected neighbor detail information.

Neighbor Information Detail

Local Port	
Basic Detail	
Chassis ID Subtype	Unknown
Chassis ID	
Port ID Subtype	Unknown
Port ID	
Port Description	
System Name	
System Description	
Supported Capabilities	N/A
Enabled Capabilities	N/A
Management Address Table	
Address Subtype Address Interface Subtype Interface	e Number
0 results found.	
MAC/PHY Detail	
Auto-Negotiation Supported	N/A
Auto-Negotiation Enabled	N/A
Auto-Negotiation Advertised Capabilities	N/A
Operational MAU Type	N/A

802 3 Power via MDI	
MDI Power Support Port Class	N/A
PSE MDI Power Support	N/A
PSE MDI Power State	N/A
PSE Power Pair Control Ability	N/A
PSE Power Pair	N/A
PSE Power Class	N/A
Power Type	N/A
Power Source	N/A
Power Priority	N/A
PD Request Power Value	N/A
PSE Allocated Power Value	N/A
802.3 Detall	N/A
802.3 Maximum Frame Size	N/A
802.3 Link Aggregation	
Aggregation Capability	N/A
Aggregation Status	N/A
Aggregation Port ID	N/A
802.1 VLAN and Protocol	
802.1 VLAN and Protocol PVID	
802.1 VLAN and Protocol PVID VLAN Name	N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail	N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported	N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities	N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class	N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type	N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type PoE Power Source	N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type PoE Power Source PoE Power Priority	N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type PoE Power Source PoE Power Priority PoE Power Value	N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Priority PoE Power Value Hardware Revision	N/A N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Value Hardware Revision Firmware Revision	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Priority PoE Power Value Hardware Revision Software Revision	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Value Hardware Revision Firmware Revision Software Revision	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Value Hardware Revision Firmware Revision Software Revision	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A
802.1 VLAN and Protocol PVID VLAN Name MED Detail Capabilities Supported Current Capabilities Device Class Device Class PoE Device Type PoE Power Source PoE Power Source PoE Power Value Hardware Revision Software Revision Software Revision Serial Number Manufacturer Name	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A

Location Information	
Civic	N/A
Coordinate	N/A
ECS ELIN	N/A
Network Policy Table	
Application Type VLAN VLAN Type Priority DSCP	
0 results found.	
Close	

IV-8-1-8. Statistics

The Link Layer Discovery Protocol (LLDP) Statistics page displays summary and per-port information for LLDP frames transmitted and received on the switch.

To display LLDP Statistics status, click **Discovery > LLDP > Statistics**.

Insertions	4
Deletions	2
Drops	0
AgeOuts	0

Entry	Port	Transmit Frame						
Entry			Re	ceive Frame		Receive TLV		Neighbor
1		Total	Total	Discard Er	ror Dis	card Unrecogn	ized	Timeout
E 1	GE1	112157	74775	0	0	0	0	0
2	GE2	112169	0	0	0	0	0	0
E 3	GE3	0	0	0	0	0	0	0
— 4	GE4	0	0	0	0	0	0	0
E 5	GE5	0	0	0	0	0	0	0
E 6	GE6	39	0	0	0	0	0	0
E 7	GE7	0	0	0	0	0	0	0
	GE8	0	0	0	0	0	0	0
9	GE9	0	0	0	0	0	0	0
10	GE10	0	0	0	0	0	0	0
11	GE11	0	0	0	0	0	0	0
12	2 GE12	0	0	0	0	0	0	0
13	GE13	0	0	0	0	0	0	0
14	GE14	0	0	0	0	0	0	0
E 15	5 GE15	0	0	0	0	0	0	0
m 16	GE16	41974	0	0	0	0	0	0
17	GE17	0	0	0	0	0	0	0
18	GE18	0	0	0	0	0	0	0
19	GE19	0	0	0	0	0	0	0
m 20	GE20	0	0	0	0	0	0	0
21	GE21	0	0	0	0	0	0	0
m 22	GE22	0	0	0	0	0	0	0
23	GE23	0	0	0	0	0	0	0
m 24	GE24	0	0	0	0	0	0	0
- 25	XGE1	0	0	0	0	0	0	0
23	YGE1	0	0	0	0	0	0	0
In 26	, AGEZ		0	0	•	v	0	0
26	YOE2	0	0	0	0	0		
26	XGE3	0	0	0	0	0	0	0

Clear Refresh

Item	Description				
Insertions	The number of times the complete set of information advertised by a particular MAC Service Access Point (MSAP) has been inserted into tables associated with the remote systems.				
Deletions	The number of times the complete set of information advertised by MSAP has been deleted from tables associated with the remote systems.				
Drops	The number of times the complete set of information advertised by MSAP could not be entered into tables associated with the remote systems because of insufficient resources.				
Age Outs	The number of times the complete set of information advertised by MSAP has been deleted from tables associated with the remote systems because the information timeliness interval has expired.				
Statistics Table					
Port	Interface or port number.				
Transmit Frame Total	Number of LLDP frames transmitted on the corresponding port.				
Receive Frame Total	Number of LLDP frames received by this LLDP agent on the corresponding port, while the LLDP agent is enabled.				
Receive Frame Discard	Number of LLDP frames discarded for any reason by the LLDP agent on the corresponding port.				
Receive Frame	Number of invalid LLDP frames received by the LLDP agent on the				
Error	corresponding port, while the LLDP agent is enabled.				
Receive TLV	Number of TLVs of LLDP frames discarded for any reason by the LLDP				
Discard	agent on the corresponding port.				
Receive TLV Unrecognized	Number of TLVs of LLDP frames that are unrecognied while the LLDP agent is enabled.				
Neighbor Timeout	Number of age out LLDP frames.				

IV-9. Multicast

Use this section to configure Multicast.

IV-9-1. General

Use the General pages to configure settings of IGMP and MLD common function.

IV-9-1-1. Property

To display multicast general property Setting web page, click **Multicast> General> Property**.

Unknown Multicast Action	 Flood Drop Forward to Router Port
Multicast Forward Me	ethod
IPv4	 DMAC-VID DIP-VID
IPv6	 DMAC-VID DIP-VID

Apply

ltem	Description
	Set the unknown multicast action
Unknown	 Flood: flood the unknown multicast data.
Multicast	 Drop: drop the unknown multicast data.
Action	 Router port: forward the unknown multicast data to router
	port.
	Set the ipv4 multicast forward method.
IPv4	 MAC-VID: forward method dmac+vid.
	 DIP-VID: forward method dip+vid.
	Set the ipv6 multicast forward method.
IPv6	 MAC-VID: forward method dmac+vid.
	 DIP-VID: forward method dip+vid(dip is ipv6 low 32 bit).

IV-9-1-2. Group Address

This page allow user to browse all multicast groups that dynamic learned or statically added.

To display Multicast General Group web page, click **Multicast> General > Group Address**.

Group Address Table

IP Version IPv4 V		
Showing All entries	Showing 0 to 0 of 0 entries	Q
VLAN Group Address	Member Type Life (Sec)	
	0 results found.	
Add Edit Delete	Refresh	First Previous 1 Next Last

ltem	Description
	IP Version
IP Version	 IPv4: ipv4 multicast group
	 IPv6: ipv6 multicast group
VLAN	The VLAN ID of group.
Group	The group IP address
Address	
Member	The member ports of group.
Туре	The type of group. Static or Dynamic.
Life(Sec)	The life time of this dynamic group.

Click "Add" or "Edit" button to view Add or Edit Group Address menu.

Add Group Address

VLAN IP Version	1 ▼ IPv4 ▼
Group Address	
Member	Available Port Selected Port GE1 Image: Constraint of the selected Port GE2 Image: Constraint of the selected Port GE3 Image: Constraint of the selected Port GE4 Image: Constraint of the selected Port GE5 Image: Constraint of the selected Port GE6 Image: Constraint of the selected Port GE7 Image: Constraint of the selected Port GE8 Image: Constraint of the selected Port

Apply Close

86

Edit Group Address

VLAN	1
Group Address	225.0.0.1
Member	Available Port Selected Port GE2 GE1 GE3 Selected Port GE4 Selected Port GE5 Selected Port GE6 Selected Port GE7 Selected Port GE8 Selected Port

Item	Description			
VLAN	The VLAN ID of group.			
	IP Version			
IP Version	 IPv4: ipv4 multicast group 			
	 IPv6: ipv6 multicast group 			
Group Address	The group IP address.			
	The member ports of group.			
Member	 Available Port: Optional port member 			
	 Selected Port: Selected port member 			

IV-9-1-3. Router Port

This page allow user to browse all router port information. The static and forbidden router port can set by user.

To display multicast router port table web page, click **Multicast > General > Router Port**.

Router Port Table

IP Version IPv4 ▼		
Showing All entries	Showing 0 to 0 of 0 entries	Q
VLAN Member	Static Port Forbidden Port Life (Sec	
	0 results found.	
Add Edit	Refresh	First Previous 1 Next Last

Item	Description
	IP Version
IP Version	 IPv4: ipv4 multicast router
	 IPv6: ipv6 multicast router
VLAN	The VLAN ID router entry.
Member	Router Port member (include static and learned port member).
Static Port	Static router port member.
Forbidden	Forbidden router port member.
Life (Sec)	The expiry time of the router entry.

Click "Add" or "Edit" button to view Add/Edit Router Port menu.

Add Router Port

VLAN	
IP Version	IPv4 V
Туре	 Static Forbidden
Port	Available Port Selected Port GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8

_ _ _ _ _ _ _ _ _ _ _ _ _

Edit Router Port

VL	AN	1					
IP Vers	ion	IPv4					
Ţ	уре	StaticForbidden					
F	Port	Available Port GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9	>	GE1	d Port		
Apply		Close					

Item	Description
	The VLAN ID for router entry
VLAN	 Available VLAN: Optional VLAN member
	 Selected VLAN: Selected VLAN member.
	IP Version
IP Version	 IPv4: ipv4 multicast router
	 IPv6: ipv6 multicast router
	The router port type
Tupo	 Static: static router port
Туре	• Forbidden: forbidden router port, can't learn dynamic router
	port member
	The member ports of router entry.
Port	 Available Port: Optional router port member
	Selected Port: Selected router port member

IV-9-1-4. Forward All

This page allow user to browse all forward port information.

Forward All Table

IP Version IPv4 V		
Showing All v entries	Showing 0 to 0 of 0 entries	Q
VLAN Static Port Forbidden Port		
	0 results found.	
Add Edit Delete		First Previous 1 Next Last

Item	Description
	IP Version
IP Version	● IPv4
	● IPv6
VLAN	The VLAN ID entry.
Static Port	Static port member.
Forbidden	Forbidden port member.

Click "Add" or "Edit" button to view Add/Edit Forward All menu

Add Forward All

Item	Description
	The VLAN ID for forwarding entry
VLAN	 Available VLAN: Optional VLAN member
	 Selected VLAN: Selected VLAN member.
	IP Version
IP Version	● IPv4
	● IPv6
	The router port type
Туре	• Static
	Forbidden
	The member ports of forward port entry.
Port	 Available Port: Optional port member
	 Selected Port: Selected port member

IV-9-1-5. Throttling

This page allow user to browse throttling port information.

Multicast throttling sets a maximum number of multicast groups that a port can join at the same time. When the maximum number of groups is reached on a port, the switch can take one of two actions; either "deny" or "replace". If the action is set to deny, any new multicast join reports will be dropped. If the action is set to replace, the switch randomly removes an existing group and replaces it with the new multicast group.

Throt	ling	Table			
IP Versi	on IF	Pv4 ✔			
					Q
	intry	Port Max C	Group Exceed	d Action	
	1	GE1	256	Deny	
0	2	GE2	256	Deny	
	3	GE3	256	Deny	
	4	GE4	256	Deny	
	5	GE5	256	Deny	
0	6	GE6	256	Deny	
	7	GE7	256	Deny	
	8	GE8	256	Deny	
	9	GE9	256	Deny	
	10	GE10	256	Deny	
	11	GE11	256	Deny	
	12	GE12	256	Deny	
	13	GE13	256	Deny	
	14	GE14	256	Deny	
	15	GE15	256	Deny	
	16	GE16	256	Deny	
	17	GE17	256	Deny	
0	18	GE18	256	Deny	
	19	GE19	256	Deny	
	20	GE20	256	Deny	
	21	GE21	256	Deny	
0	22	GE22	256	Deny	
	23	GE23	256	Deny	
	24	GE24	256	Deny	
U	25	GE25	256	Deny	
U	26	GE26	256	Deny	
U	27	GE27	256	Deny	
U	28	GE28	256	Deny	
	29	GE29	256	Denv Control C	

Item	Description
IP Version	IP Version ● IPv4
	● IPv6
Entry	Port number
Port	Port name
Max Group	Display the maximum number of multicast groups an interface can join at the same time.
Exceed action	Display the status of the action to take when the maximum number of multicast groups for the interface has been exceeded.

Click "Add" or "Edit" button to view Add/Edit Throttling Port menu

Edit Throttling

Port	GE1
IP Version	IPv4
Max Group	256 (0 - 256)
Exceed Action	 Deny Replace
Apply Clo	ise

ltem	Description
Port	Port name
IP Version	P Version ● IPv4 ● IPv6
Max Group	Sets the maximum number of multicast groups an interface can join at the same time. Range: 0-256 Default: 256
Exceed action	Sets the action to take when the maximum number of multicast groups for the interface has been exceeded. Deny: The new multicast group join report is dropped Replace: The new multicast group replaces an existing group

IV-9-1-6. Filtering Profile

This page allow user to browse filtering profile information.

Filtering Profile Table			
IP Version IPv4 v			
Showing All 🗸 entries	Showing 0 to 0 of 0 entries	Q	
Profile ID Start Address End Address	Action		
	0 results found.		
Add Edit Delete		First Previous 1 Next Last	

Item	Description
	IP Version
IP Version	● IPv4
	● IPv6
Profile ID	Display the current ID.
Start Address	Display the current Start Address.
End Address	Display the current End Address.
Action	Display the current action.

Click "Add" or "Edit" button to view Add/Edit Filtering Profile menu.

Add Profile

Profile ID	(1 - 128)
IP Version	IPv4 🗸
Start Address	
End Address	
Action	Allow Deny
Apply Cl	ose

Item	Description
Profile ID	Enter the ID of this particular profile
IP Version	IP Version IPv4 IPv6
Start Address	Specify a multicast group range by entering a start IP address.
End Address	Specify a multicast group range by entering an end IP address.

	Sets the access mode of the profile either Allow or Deny.
Action	Allow: Multicast join reports are processed when a multicast group falls within the controlled range.
	Deny: When the access mode is set to, multicast join reports are only processed when the multicast group is not in the controlled range.

IV-9-1-7. Filtering Binding

This page allow user to browse filtering binding information.

Filtering Binding Table		
IP Version IPv4 🗸		
		۵
Entry Port Profile ID		
1 GE1		
2 GE2		
3 GE3		
4 GE4		
5 GE5		
6 GE6		
□ 7 GE7		
B GE8		
9 GE9		
10 GE10		
11 GE11		
12 GE12		
13 GE13		
14 GE14		
15 GE15		
16 GE16		
17 GE17		
18 GE18		
19 GE19		
20 GE20		
21 GE21		
22 GE22 3 3 3 4		
23 GE23		
Q4 GE24		
25 GE25		
26 GE26		
27 GE27		
28 GE28		
□ 29 GE29		
14	Description	
item	Description	

ltem	Description	
	IP Version	
IP Version	● IPv4	
	● IPv6	
Entry	Display the port number.	
Port	Display the current port.	
Profile ID	Display the current filter profile ID.	

Click "Add" or "Edit" button to view Add/Edit Filtering Binding menu.

Edit Filtering Binding

Port	GE1
IP Version	IPv4
Profile ID	Enable
Apply	Close

Item	Description	
Port	Display the current port.	
	IP Version	
IP Version	● IPv4	
	● IPv6	
Profile ID	Enable/Disable Profile ID.	

IV-9-2. IGMP Snooping

Use the IGMP Snooping pages to configure settings of IGMP snooping function.

IV-9-2-1. Property

This page allow user to configure global settings of IGMP snooping and configure specific VLAN settings of IGMP Snooping.

To display IGMP Snooping global setting and VLAN Setting web page, click **Multicast > IGMP Snooping > Property**.

[State		Enable
	Version	•	IGMPv2 IGMPv3
	Report Suppression		Enable
_	Apply		

VLAN Setting Table

								Q		
•	VLAN	Operational Status	Router Port Auto Learn	Query Robustness	Query Interval	Query Max Response Interval	Last Member Query Counter	Last Member Query Interval	Immediate Leave	
	1	Disabled	Enabled	2	125	10	2	1	Disabled	
	Edit	ן								

Item Description Set the enabling status of IGMP Snooping functionality Enable: If Checked Enable IGMP Snooping, else is Disabled State IGMP Snooping. Set the igmp snooping version Version IGMPv2: Only support process igmp v2 packet. IGMPv3: Support v3 basic and v2. Set the enabling status of IGMP v2 report suppression **Report Suppression** Enable: If Checked Enable IGMP Snooping v2 report suppression, else Disable the report suppression function. VLAN The IGMP entry VLAN ID. **Operation Status** The enable status of IGMP snooping VLAN functionality. **Router Port Auto** The enabling status of IGMP snooping router port auto Learn learning. The Query Robustness allows tuning for the expected packet Query Robustness loss on a subnet. **Query Interval** The interval of querier to send general query. **Query Max** In Membership Query Messages, it specifies the maximum Response allowed time before sending a responding report in units of Interval 1/10 second. Last Member The count that Querier-switch sends Group-Specific Queries Query count when it receives a Leave Group message for a group. The interval that Querier-switch sends Group-Specific Last Member **Query Interval** Queries when it receives a Leave Group message for a group. The immediate leave status of the group will immediate Immediate leave leave when receive IGMP Leave message.

Click "Edit" button to Edit VLAN Setting menu.

Edit VLAN Setting

VLAN State Router Port Auto Learn Immediate leave	1 Enable Enable Enable	
Query Robustness	2	(1 - 7, default 2)
Query Interval	125	Sec (30 - 18000, default 125)
Query Max Response Interval	10	Sec (5 - 20, default 10)
Last Member Query Counter	2	(1 - 7, default 2)
Last Member Query Interval	1	Sec (1 - 25, default 1)
Operational Status		
Status	Disabled	
Query Robustness	2	
Query Interval	125 (Sec)	
Query Max Response Interval	10 (Sec)	
Last Member Query Counter	2	
Last Member Query Interval	1 (Sec)	

Apply Close

Item	Description
VLAN	The selected VLAN List.
	Set the enabling status of IGMP Snooping VLAN
State	functionality
Sidle	Enable: If Checked Enable IGMP Snooping VLAN, else is
	Disabled IGMP Snooping VLAN.
	Set the enabling status of IGMP Snooping router port
Router Port Auto	learning
Learn	Enable: If checked Enable learning router port by query and
	PIM, DVRMP, else Disable the learning router port.
	Immediate Leave the group when receive IGMP Leave
Immediate leave	message.
	Enable: If checked Enable immediate leave, else disable

	immediate leave.
Query Robustness	The Admin Query Robustness allows tuning for the expected packet loss on a subnet.
Query Interval	The Admin interval of querier to send general query.
Query Max Response Interval	The Admin query max response interval in Membership Query Messages, it specifies the maximum allowed time before sending a responding report in units of 1/10 second.
Last Member Query Counter	The Admin last member query count that Querier-switch sends Group-Specific Queries when it receives a Leave Group message for a group.
Last Member Query Interval	The Admin last member query interval that Querier-switch sends Group-Specific Queries when it receives a Leave Group message for a group.
Operational Status	
Status	Operational IGMP snooping status, must both IGMP snooping global and IGMP snooping enable the status will be enable.
Query Robustness	Operational Query Robustness.
Query Interval	Operational Query Interval.
Query Max Response Interval	Operational Query Max Response Interval
Last Member Query Counter	Operational Last Member Query Count.
Last Member Query Interval	Operational Last Member Query Interval.

IV-9-2-2. Querier

This page allow user to configure querier settings on specific VLAN of IGMP Snooping.

To display IGMP Snooping Querier Setting web page, click **Multicast > IGMP Snooping > Querier**.

Querier Table

				q	
VLAN	State	Operational Status	Version	Querier Address	
1	Disabled	Disabled			
- 404)				

ItemDescriptionVLANIGMP Snooping querier entry VLAN ID.StateThe IGMP Snooping querier Admin State.Operational
StatusThe IGMP Snooping querier operational status.QuerierThe IGMP Snooping querier operational version.Querier IPThe operational Querier IP address on the VLAN.

Click "Edit" button to view Edit Querier menu.

Edit Querier

VLAN	1	
State	Enable	
Version	 IGMPv2 IGMPv3 	
Apply	Close	

ltem	Description			
VLAN	The Selected Edit IGMP Snooping querier VLAN List.			
State	Set the enabling status of IGMP Querier Election on the chose VLANs Enabled: if checked Enable IGMP Querier else Disable IGMP Querier.			
Version	 Set the query version of IGMP Querier Election on the chose VLANs IGMPv2: Querier version 2. IGMPv3: Querier version 3. (IGMP Snooping version should be IGMPv3) 			

IV-9-2-3. Statistics

This page allow user to clear igmp snooping statics.

To display IGMP Snooping Statistics, click **Multicast > IGMP Snooping > Statistics**.

Receive Packet	
Total	91
Valid	8
InValid	83
Other	0
Leave	0
Report	0
General Query	0
Special Group Query	0
Source-specific Group Query	0
T 40 L 4	
Transmit Packet	0
Deport	0
Conoral Query	0
Special Crews Query	0
Special Group Query	0
Source-specific Group Query	0

Clear

Refresh

ltem	Description	
Receive Packet		
Total	Total RX igmp packet, include ipv4 multicast data to CPU.	
Valid	The valid igmp snooping process packet.	
InValid	The invalid igmp snooping process packet.	
Other	The ICMP protocol is not 2, and is not ipv4 multicast data packet.	
Leave	IGMP leave packet.	
Report	IGMP join and report packet.	
General Query	IGMP General Query packet.	
Special Group	IGMP Special Group General Query packet.	
Query		

Source-specific	ICMP Special Source and Crown Constal Query packet	
Group Query	IGIVIP Special Source and Group General Query packet.	
Transmit Packet		
Leave	IGMP leave packet	
Report	IGMP join and report packet	
General Query	IGMP general query packet include querier transmit general	
	query packet.	
Special Group	IGMP special group query packet include querier transmit special	
Query	group query packet.	
Source-specific	ICMP Special Source and Croup Coneral Query packet	
Group Query	i Givir Special Source and Group General Query packet.	

IV-9-3. AV Over IP

AV over IP (also known as AV/IP) refers to the use of standard network equipment to transmit and switch video and audio. AV-over-IP (Audio-Visual over Internet Protocol) is the transmission of audio, video and control signals over a network cable infrastructure for example WAN, LAN or the internet. In comparison to conventional analogue AV environments, AV over IP refers to the use of standard network equipment to switch and transmit video and audio signals. AV over IP supported high quality, low latency video distribution, reduced user costs, AV networks that are easier to create and modify, plus far more room for innovation.

IV-9-3-1. General Property

Unknown Multicast Action O Flood O Drop O Forward to Router Port				
IPv4	 DMAC-VID DIP-VID 			
IPv6	 DMAC-VID DIP-VID 			

Apply

ltem	Description
Unknown	Set the unknown multicast action
Multicast	 Flood: flood the unknown multicast data.
Action	 Drop: drop the unknown multicast data.
--------	--
	 Forward to Router port: forward the unknown multicast data
	to router port.
	Set the ipv4 multicast forward method.
IPv4	 MAC-VID: forward method dmac+vid.
	 DIP-VID: forward method dip+vid.
	Set the ipv6 multicast forward method.
IPv6	 MAC-VID: forward method dmac+vid.
	 DIP-VID: forward method dip+vid(dip is ipv6 low 32 bit).

IV-9-3-2. IGMP Property

This page allow user to configure global settings of AV Over IP IGMP and configure specific VLAN settings of AV Over IP IGM.

State	C Enable
Version	 IGMPv2 IGMPv3
Report Suppression	C Enable

Apply

ltem	Description			
	Set the enabling status of IGMP Property functionality			
State	Enable: If Checked Enable IGMP Property, else is Disabled			
	IGMP Snooping.			
	Set the igmp snooping version			
Version	 IGMPv2: Only support process igmp v2 packet. 			
	 IGMPv3: Support v3 basic and v2. 			
	Set the enabling status of IGMP v2 report suppression			
Report Suppression	Enable: If Checked Enable IGMP Snooping v2 report			
	suppression, else Disable the report suppression function.			

VLAN Setting Table

_									Q	
	VLAN	Operational Status	Router Port	Query	Query	Query Max	Last Member	Last Member	Immediate Leave	
		eporational etatao	Auto Learn	Robustness	Interval	Response Interval	Query Counter	Query Interval		
	1	Enabled	Enabled	2	125	10	2	1	Enabled	
Edit										

Click "Add" or "Edit" button to view Add/Edit VLAN Setting menu.

Edit VLAN Setting

VLAN	1			
State	Enable			
Router Port Auto Learn	C Enable			
Immediate leave	Z Enable			
·				
Query Robustness	2 (1 - 7, default 2)			
Query Interval	125 Sec (30 - 18000, default 125)			
Query May Peenonse Interval	10 Sec (5 - 20 default 10)			
Query max response intervar	10 000 (3 - 20, deladit 10)			
Last Member Query Counter	2 (1 - 7, default 2)			
Last Member Query Interval	1 Sec (1 - 25, default 1)			
Operational Status				
Status	Enabled			
Query Robustness	2			
Query Interval	125 (Sec)			
Query Max Response Interval	10 (Sec)			
Last Member Query Counter	2			
Last Member Query Interval	1 (Sec)			
Apply Close				

ltem	Description
VLAN	The selected VLAN List.
State	Set the enabling status of IGMP Snooping VLAN functionality Enable: If Checked Enable IGMP Snooping VLAN, else is Disabled IGMP Snooping VLAN.
Router Port Auto Learn	Set the enabling status of IGMP Snooping router port learning Enable: If checked Enable learning router port by query and PIM, DVRMP, else Disable the learning router port.
Immediate leave	Immediate Leave the group when receive IGMP Leave message. Enable: If checked Enable immediate leave, else disable immediate leave.
Query Robustness	The Admin Query Robustness allows tuning for the expected packet loss on a subnet.
Query Interval	The Admin interval of querier to send general query.

Query Max	The Admin query max response interval 🦻 In Membership Query				
Response	Messages, it specifies the maximum allowed time before sending				
Interval	a responding report in units of 1/10 second.				
Last Member Query Counter	The Admin last member query count that Querier-switch sends				
	Group-Specific Queries when it receives a Leave Group message				
	for a group.				
Last Member	The Admin last member query interval that Querier-switch sends				
Query	Group-Specific Queries when it receives a Leave Group message				
Interval	for a group.				
Operational Statu	S				
Ctatus	Operational IGMP snooping status 🦻 must both IGMP snooping				
Status	global and IGMP snooping enable the status will be enable.				
Query	Operational Query Robustness				
Robustness	Operational Query Robustness.				
Query Interval	Operational Query Interval.				
Query Max					
Response	Operational Query Max Response Interval				
Interval					
Last Member					
Query	Operational Last Member Query Count.				
Counter					
Last Member					
Query	Operational Last Member Query Interval.				
Interval					

IV-9-3-3. Querier

This page provides IGMP Querier of AC Over IP Setting.



ltem	Description
VLAN	IGMP Snooping querier entry VLAN ID.
State	The IGMP Snooping querier Admin State.
Operational Status	The IGMP Snooping querier operational status.
Querier Version	The IGMP Snooping querier operational version.
Querier IP	The operational Querier IP address on the VLAN.

Click "Edit" button to edit parameter.

Edit Querier

State	
Version	 IGMPv2 IGMPv3

ltem	Description				
VLAN	The Selected Edit IGMP Snooping querier VLAN List.				
State	Set the enabling status of IGMP Querier Election on the chose VLANs Enabled: if checked Enable IGMP Querier else Disable IGMP Querier.				
Version	 Set the query version of IGMP Querier Election on the chose VLANs IGMPv2: Querier version 2. IGMPv3: Querier version 3. (IGMP Snooping version should be IGMPv3) 				

IV-9-3-4. Statistics

	_
Receive Packet	
Total	99
Valid	20
Valiu	20
InValid	79
Other	0
Leave	0
Penert	20
Report	20
General Query	0
Special Group Query	0
Source-specific Group Query	
L	
Transmit Packet	
Leave	0
Descert	0
Керог	U
General Query	0
Special Group Query	0
Source-specific Group Query	
Clear Refresh	

IV-9-4. MLD Snooping

This page provides MLD Snooping related configuration. Most of the settings are global, whereas the Router Port configuration is related to the current unit, as reflected by the page header.

IV-9-4-1. Property



Item	Description				
	Set the enabling status of MLD Snooping functionality				
State	Enable: If Checked Enable MLD Snooping, else is Disabled				
	MLD Snooping.				
Version	Set the MLD Snooping version				
	 IGMPv2: Only support process igmp v2 packet. 				
	 IGMPv3: Support v3 basic and v2. 				
	Limits the membership report traffic sent to				
	multicast-capable routers. When you disable report				
Report Suppression	suppression, all MLD reports are sent as is to				
	multicast-capable				
	routers.				

VLAN Setting Table

_									Q	
	VLAN	Operational Status	Router Port Auto Learn	Query Robustness	Query Interval	Query Max Response Interval	Last Member Query Counter	Last Member Query Interval	Immediate Leave	
	1	Disabled	Enabled	2	125	10	2	1	Disabled	

Edit	
------	--

ltem	Description		
VLAN	Display the current entry number		
Operational	Display the surrent MLD speeping operation status		
Status	Display the current MLD shooping operation status		
Router Port	Display the current router ports auto learning		
Auto Learn	Display the current router ports auto learning		
Query	Display the current query robustness		
Robustness	Display the current query robustness		
Query Interval	Display the current query interval		
Query Max			
Response	Display the current query max response interval		
Interval			
Last Member	Display the current last member query count		
Query Counter	Display the current last member query count		
Last Member			
Query	Display the current last member query interval		
Interval			
Immediate	Display the current immediate leave		
Leave			

Click "Edit" button to edit parameter.

Edit VLAN Setting

Apply

Close

VLAN	1	
State	Enable	
Router Port Auto Learn	Enable	
Immediate leave	Enable	
Query Robustness	2	(1 - 7, default 2)
Query Interval	125	See (20, 19000, default 125)
Query Interval	125	Sec (50 - 10000, delault 125)
Query Max Response Interval	10	Sec (5 - 20, default 10)
·		
Last Member Query Counter	2	(1 - 7, default 2)
Last Member Overs Interval	1	See (1. 25. default 1)
Last member Query Interval		Sec (1 - 25, delault 1)
Operational Status		
Status	Disabled	
Quany Pohystrass	2	
Query Robustiless	2	
Query Interval	125 (Sec)	
Query Max Response Interval	10 (Sec)	
Last Member Query Counter	2	
Last Member Query Interval	1 (Sec)	
L		

Item Description VLAN The selected VLAN List. Set the enabling status of MLD Snooping VLAN functionality State Enable: If Checked Enable MLD Snooping VLAN, else is Disabled MLD Snooping VLAN. Set the enabling status of MLD Snooping router port learning **Router Port Auto** Enable: If checked Enable learning router port by query and Learn PIM, DVRMP, else Disable the learning router port. Immediate Leave the group when receive MLD Leave message. Immediate leave Enable: If checked Enable immediate leave, else disable immediate leave. The Admin Query Robustness allows tuning for the expected **Query Robustness** packet loss on a subnet. The Admin interval of querier to send general query. **Query Interval** The Admin guery max response interval , In Membership Query Max

Response Interval	Query Messages, it specifies the maximum allowed time
	The Admin last member query count that Querier-switch
Last Member	sends Group-Specific Queries when it receives a Leave Group
Query Counter	message for a group.
Last Member	The Admin last member query interval that Querier-switch
Query	sends Group-Specific Queries when it receives a Leave Group
Interval	message for a group.
Operational Status	
Status	Operational MLD snooping status [,] must both MLD snooping
Status	global and IGMP snooping enable the status will be enable.
Query Robustness	Operational Query Robustness.
Query Interval	Operational Query Interval.
Query Max	
Response	Operational Query Max Response Interval
Interval	
Last Member	
Query	Operational Last Member Query Count.
Query Counter	Operational Last Member Query Count.
Query Counter Last Member	Operational Last Member Query Count.
Query Counter Last Member Query	Operational Last Member Query Count. Operational Last Member Query Interval.

IV-9-4-2. Statistics

Receive Packet	
Total	0
Valid	0
InValid.	0
ווועמווע	0
Other	0
Leave	U
Report	0
General Query	0
Special Group Query	0
Source-specific Group Query	0
Transmit Packet	
Leave	0
Report	0
neport	
General Query	0
Special Group Query	0
special Gloup Query	U
	0
Source-specific Group Query	

IV-9-5. MVR

Use the MVR pages to configure settings of MVR function.

IV-9-5-1. Property

To display multicast MVR property Setting web page, click **Multicast > MVR > Property**.

State	Enable	
VLAN	1 🔻	
Mode	 Compatible Dynamic 	
Group Start	0.0.0.0	
Group Count	1	(1 - 128)
Query Time	1	Sec (1 - 10)
Operational Gro	oup	
Maximum	128	
Current	0	

Apply

ltem	Description		
State	Enable: if checked enable the MVR state, else disable the MVR state.		
VLAN The MVR VLAN ID.			
	Set the MVR mode		
Mode	 Compatible: compatible mode. 		
	 Dynamic: learn group member on source port. 		
Group Start	MVR group range start.		
Group	MVR group continue count.		
Count			
Query Time	MVR query time when receive MVR leave MVR group packet.		
Maximum	The max number of MVR group database.		
Current	The learned MVR group current time		

IV-9-5-2. Port Setting

This page allow user to configure port role and port immediate leave.

To display MVR port role and immediate leave state setting web page, click **Multicast > MVR > Port Setting**.

	Entry Port	Role	Immediate Leave
	1 GE1	None	Disabled
	2 GE2	None	Disabled
	3 GE3	None	Disabled
	4 GE4	None	Disabled
	5 GE5	None	Disabled
	6 GE6	None	Disabled
	7 GE7	None	Disabled
	8 GE8	None	Disabled
	9 GE9	None	Disabled
	10 GE10	None	Disabled
	11 GE11	None	Disabled
	12 GE12	None	Disabled
	13 GE13	None	Disabled
	14 GE14	None	Disabled
	15 GE15	None	Disabled
	16 GE16	None	Disabled
	17 GE17	None	Disabled
	18 GE18	None	Disabled
	19 GE19	None	Disabled
	20 GE20	None	Disabled
	21 GE21	None	Disabled
	22 GE22	None	Disabled
	23 GE23	None	Disabled
	24 GE24	None	Disabled
[]	25 XGE1	None	Disabled
	26 XGE2	None	Disabled
	27 XGE3	None	Disabled
	28 XGE4	None	Disabled
	29 LAG1	None	Disabled
	30 LAG2	None	Disabled
(***	31 LAG3	None	Disabled
	32 LAG4	None	Disabled
	33 LAG5	None	Disabled
	34 LAG6	None	Disabled
	35 LAG7	None	Disabled
	36 LAG8	None	Disabled

Q

Item	Description
Entry	Entry of number.
Port	Port Name.
Role	Port Role for MVR, the type is None/Receiver/Source.
Immediate Leave	Status of immediate leave.

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1			
Role	 None Receiver Source 			
Immediate Leave	Enable			
Apply Close				

ltem	Description			
Port	Display the selected port list.			
	MVR port role			
Polo	 None: port role is none. 			
ROIE	 Receiver: port role is receiver. 			
	 Source: port role is source. 			
	MVR Port immediate leave			
Immediate Leave	Enable: if checked is enable immediate leave, else disable			
	immediate leave.			

IV-9-5-3. Group Address

This page allow user to browse all multicast MVR groups that dynamic learned or statically added.

To display Multicast MVR Group web page, click **Multicast > MVR > Group Address**.

Group Address Table		
Showing All entries	Showing 0 to 0 of 0 entries	Q
VLAN Group Address	Member Type Life (Sec)	
	0 results found.	
Add Edit Delete	e Refresh	First Previous 1 Next Last

Item	Description
VLAN	The VLAN ID of MVR group.
Group	The MV/P group ID address
Address	The Wivk group if address.
Member	The member ports of MVR group.
Туре	The type of MVR group. Static or Dynamic.
Life(Sec)	The life time of this dynamic MVR group.

Click "Add" button to view Add/Edit Group Address Table menu.

Add Group Address

VLAN	1
Group Address	(0.0.0.0 - 0.0.0.0)
Member	Available Port Selected Port
Apply Close	se

ltem	Description
VLAN	The VLAN ID of MVR group.
Group Address	The MVR group IP address.
Member	 The member ports of MVR group. Available Port: Optional port member, it is only receiver port when MVR mode is compatible, it include source port when mode is dynamic. Selected Port: Selected port member

IV-10. Security

Use the Security pages to configure settings for the switch security features.

IV-10-1. RADIUS

This page allow user to add, edit or delete RADIUS server settings and modify default parameter of RADIUS server.

To display RADIUS web page, click **Security > RADIUS**.

Use Default Parameter							
	Retry	3	(1 - 10, 0	default 3)			
	Timeout	3	Sec (1 -	30, default 3)			
	Key String						
R	Apply RADIUS Table						
Sho	owing All 🔻 e	ntries	Showing 0 to 0	of 0 entries		Q	
E	Server Addr	ress Server Port	Priority Retry	Timeout	Usage		
0 results found.							
Add Edit Delete First Previous 1 Next Last					Next Last		

Item	Description	
Retry	Set default retry number.	
Timeout	Set default timeout value.	
Key String	Set default RADIUS key string	
RADIUS Table		
Server	RADIUS server address	
Address		
Server Port	RADIUS server port.	
Priority	RADIUS server priority (smaller value has higher priority). RADIUS session will try to establish with the server setting which has highest priority. If failed, it will try to connect to the server with next higher priority.	
Retry	RADIUS server retry value. If it is fail to connect to server, it will keep trying until timeout with retry times.	
Timeout	RADIUS server timeout value. If it is fail to connect to server, it will keep trying until timeout.	
Usage	RADIUS server usage type Login: For login authentication. 802.1x: For 802.1x authentication. All: For all types.	

Click "Add" or "Edit" button to view Add/Edit RADIUS Server menu.

Add RADIUS Server

Address Type	 Hostname IPv4 IPv6 	
Server Address		
Server Port	1812	(0 - 65535, default 1812)
Priority		(0 - 65535)
Key String	Use Default	
Retry	Use Default	(1 - 10, default 3)
Timeout	Use Default	Sec (1 - 30, default 3)
Usage	 Login 802.1X All 	
Apply Clos	se	

Edit RADIUS Server

Server Address	undefined	
Server Port	0	(0 - 65535, default 1812)
Priority	-1	(0 - 65535)
Key String	Use Default]
Retry	Use Default	(1 - 10, default 3)
Timeout	Use Default	Sec (1 - 30, default 3)
Usage	 Login 802.1X All 	
Apply Clos	se	

Item	Description		
	In add dialog, user need to specify server Address Type		
Addross Typo	 Hostname: Use domain name as server address. 		
Address Type	 IPv4: Use IPv4 as server address. 		
	 IPv6: Use IPv6 as server address. 		
	In add dialog, user need to input server address based on		
Server Address	address type. In edit dialog, it shows current edit server		
	address.		
Server Port	Set RADIUS server port.		
	Set RADIUS server priority (smaller value has higher priority).		
Driority	RADIUS session will try to establish with the server setting		
Priority	which has highest priority. If failed, it will try to connect to		
	the server with next higher priority.		
Dotry	Set RADIUS server retry value. If it is fail to connect to server,		
Reliy	it will keep trying until timeout with retry times.		
Timoout	Set RADIUS server timeout value. If it is fail to connect to		
Timeout	server, it will keep trying until timeout.		
	Set RADIUS server usage type		
Licago	 Login: For login authentication. 		
Usage	• 802.1x: For 802.1x authentication.		
	• All: For all types.		

IV-10-2. TACACS+

This page is to configure the RADIUS server connection session parameters.

ise Derault P	arameter		
Timeout	5	Sec (1 - 30, default 5)	
Key String			

ltem	Description
	Set the timeout in the range 1 to 30, a TACACS+ request is
Timeout	retransmitted to a server that is not responding. If the server has
	not responded after the last retransmit it is considered to be dead.
Key String	Define the key between the TACACS+ server and the switch.

TACACS+ Table		
Showing All v entries	Showing 0 to 0 of 0 entries	Q
Server Address Server Port Priority Timeout		
	0 results found.	
Add Edit Delete		First Previous 1 Next Last

Click "Add" or "Edit" button to view Add/Edit TACACS+ Server menu.

Address Type	 Hostname IPv4 IPv6 	
Server Address		
Server Port	49	(0 - 65535, default 49)
Priority		(0 - 65535)
Key String	✓ Use Default	
Timeout	Use Default	
	5	Sec (1 - 30, default 5)

Item Description		
	In add dialog, user need to specify server Address Type	
Addross Typo	 Hostname: Use domain name as server address. 	
Address Type	 IPv4: Use IPv4 as server address. 	
	 IPv6: Use IPv6 as server address. 	
	In add dialog, user need to input server address based on	
Server Address	address type. In edit dialog, it shows current edit server	
	address.	
Server Port	Set RADIUS server port.	
	Set RADIUS server priority (smaller value has higher priority).	
Priority	RADIUS session will try to establish with the server setting	
PHOINY	which has highest priority. If failed, it will try to connect to	
	the server with next higher priority.	
Potru	Set RADIUS server retry value. If it is fail to connect to server,	
	it will keep trying until timeout with retry times.	
Key String Set the key- shared between the TACACS+ Authentication		

	Server and the switch.
Timeout	Set RADIUS server timeout value. If it is fail to connect to
TITIEOUL	server, it will keep trying until timeout.

IV-10-3. Method List

Indicates the host can define different methods from Empty/None/Local/Enable/RADIUS/TACACS+.

Method List Table		
Showing All v entries	Showing 1 to 1 of 1 entries	٩
Name Sequence		
default (1) Local		
Add Edit Delete		First Previous 1 Next Last

Click "Add" or "Edit" button to view Add/Edit Method List.

Add Method List

Name	
Method 1	 Empty None Local Enable RADIUS TACACS+
Method 2	 Empty None Local Enable RADIUS TACACS+
Method 3	 Empty None Local Enable RADIUS TACACS+
Method 4	 Empty None Local Enable RADIUS TACACS+
Apply	Close

IV-10-4. Login Authentication

This section is to control the access of the Managed Switch, including the different access methods – Console, Telnet, SSH, HTTP and HTTPS.

Console	default 🗸 (1) Local
Telnet	default 🗸 (1) Local
SSH	default 🗸 (1) Local
HTTP	default 🗸 (1) Local
HTTPS	default 🗸 (1) Local
Apply	

IV-10-5. Management Access

Use the Management Access pages to configure settings of management access.

IV-10-5-1. Management VLAN

Management VLAN		1 - default Note: Change Management VLAN may cause connection interrupted
Apply	,	

Note: Change Management VLAN may cause connection interrupted

IV-10-5-2. Management Service

This page allow user to change management services related configurations.

To display Management Service click **Security > Management Access > Management Service**.

Managemen	nt Service	
Telnet	Enable	
SSH	Enable	
HTTP	Enable	
HTTPS	Enable	
SNMP	Enable	
Session Tim	neout	
Consolo	10	Min (0 - 65525, default 10)
Console	10	Mill (0 - 05555, deladir 10)
Telnet	10	Min (0 - 65535, default 10)
S SH	10	Min (0 - 65535, default 10)
нттр	10	Min (0 - 65535, default 10)
HTTPS	10	Min (0 - 65535, default 10)
Password R	etry Count	
Console	3	(0 - 120, default 3)
Telnet	3	(0 - 120, default 3)
SSH	3	(0 - 120, default 3)
Silent Time		
Console	0	Sec (0 - 65535, default 0)
Telnet	0	Sec (0 - 65535, default 0)
SSH	0	Sec (0 - 65535, default 0)

Apply

ltem	Description		
	Management service admin state.		
	 Telnet: Connect CLI through telnet. 		
Management	 SSH: Connect CLI through SSH. 		
Service	 HTTP: Connect WEBUI through HTTP. 		
	 HTTPS: Connect WEBUI through HTTPS. 		
	 SNMP: Manage switch trough SNMP. 		
Session	Set session timeout minutes for user access to user interface. 0		
Timeout	minutes means never timeout.		
Password	Retry count is the number which CLI password input error		

Retry	tolerance count. After input error password exceeds this count, the		
Count	CLI will freeze after silent time.		
Silent Time	After input error password exceeds password retry count, the CLI will freeze after silent time.		

IV-10-5-3. Management ACL

This page allow user to add or delete management ACL rule. A rule cannot be deleted if under active.

To display Management ACL page, click **Security > Management Access > Management ACL**.

ACL Name		
Apply		
Management ACL Table	,	
Showing All entries	Showing 0 to 0 of 0 entries	Q
ACL Name State Ru	ıle	
	0 results found.	
Active Deactive Delete First Previous 1 Next Last		
ltem De	scription	

Item	Description	
ACL Name	Input MAC ACL name.	
Management ACL		
ACL Name	Display Management ACL name.	
State	Display Management ACL whether active.	
Rule Display the number Management ACE rule of ACL.		

IV-10-5-4. Management ACE

This page allow user to add, edit or delete ACE rule. An ACE rule cannot be edited or deleted if ACL under active. New ACE cannot be added if ACL under active

To display Management ACE page, click **Security > Management Access > Management ACE**.

Management ACE Table			
ACL Name manage V			
Showing All entries	Showing 0 to 0 of	f 0 entries Q	
Priority Action Serv	ice Port Address / Ma	sk	
	0 resu	ilts found.	
Add Edit	Delete	First Previous 1 Next L	.ast

ltem	Description
ACL Name	Select the ACL name to which an ACE is being added.
Priority	Display the priority of ACE.
Action	Display the action of ACE.
Service	Display the service ACE
Port	Display the port list of ACE
Address / Mask	Display the source IP address and mask of ACE.

Click "Add" or "Edit" button to view Add/Edit Management ACE menu.

Add Managemet ACE

ACL Name	manage
Priority	1 (1 - 65535)
Service	 All Http Https Snmp SSH Telnet
Action	 Permit Deny
Port	Available Port Selected Port GE1 Image: Constraint of the selected Port GE2 Image: Constraint of the selected Port GE3 Image: Constraint of the selected Port GE4 Image: Constraint of the selected Port GE5 Image: Constraint of the selected Port GE6 Image: Constraint of the selected Port GE7 Image: Constraint of the selected Port GE8 Image: Constraint of the selected Port
IP Version	 All IPv4 IPv6
IPv4	/ 255.255.255
IPv6	/ 128 (1 - 128)
Apply	Close

Edit Managemet ACE

[]	
ACL Name	manage
Priority	1
Service	 All Http Https Snmp SSH Telnet
Action	 Permit Deny
Port	Available Port Selected Port GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9
IP Version	 All IPv4 IPv6
IPv4	/ 255.255.255.255
IPv6	/ 128 (1 - 128)
Apply	Close

Item Description Display the ACL name to which an ACE is being added. ACL Name Specify the priority of the ACE. ACEs with higher sequence are Priority processed first (1 is the highest priority). Only available on Add Dialog. Select the type service of rule. All: All services. HTTP: Only HTTP service. Service HTTPs: Only HTTPs service SNMP: Only SNMP service. SSH: Only SSH service. Telnet: Only Telnet service Select the action after ACE match packet. Action Permit: Forward packets that meet the ACE criteria. Deny: Drop packets that meet the ACE criteria. •

Port	Select ports which will be matched.
IP Version	Select the type of source IP address.
	 All: All IP addresses can access.
	 IPv4: Specify IPv4 address ca access.
	 IPv6: Specify IPv6 address ca access.
IPv4	Enter the source IPv4 address value and mask to which will be
	matched.
IPv6	Enter the source IPv6 address value and mask to which will be
	matched.

IV-10-6. Authentication Manager

IV-10-6-1. Property

This page allow user to edit authentication global settings and some port mods' configurations.

To display authentication manager Property web page, click **Security > Authentication Manager > Property**.

Authentication Type	802.1x 80
Guest VLAN	Enable
MAC-Based User ID Format	XXXXXXXXXXXX

Apply

_								Q
•	Entry	Port A	uthentication Type 802.1x	Host Mode	Method	Guest VLAN	VLAN Assign Mode	
	1	GE1	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	2	GE2	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	3	GE3	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	4	GE4	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	5	GE5	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	6	GE6	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	7	GE7	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	8	GE8	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	9	GE9	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	10	GE10	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	11	GE11	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	12	GE12	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	13	GE13	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	14	GE14	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	15	GE15	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	16	GE16	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	17	GE17	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	18	GE18	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	19	GE19	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	20	GE20	Enabled	Multiple Authentication	RADIUS	Disabled	Static	
	21	GE21	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	22	GE22	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	23	GE23	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	24	GE24	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	25	XGE1	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	26	XGE2	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
	27	XGE3	Disabled	Multiple Authentication	RADIUS	Disabled	Static	
1111	28	XGE4	Disabled	Multiple Authentication	RADIUS	Disabled	Static	

ltem	Description
Authentication Type	 Set checkbox to enable/disable following authentication types 802.1x: Use IEEE 802.1x to do authentication MAC-Based: Use MAC address to do authentication WEB-Based: Prompt authentication web page for user to do authentication
Guest VLAN	Set checkbox to enable/disable guest VLAN, if guest VLAN is enabled, you need to select one available VLAN ID to be guest VID.
MAC-Based User ID Format	Select mac-based authentication RADIUS username/password ID format. XXXXXXXXXXXX XXXXXXXXXXX XXXXXXXXXXX

	• XXXXXX-XXXXXX
Port Mode Table	·
Port	Port Name.
Authentication	802.1X authentication type state
Type	• Enabled: 802.1X is enabled.
(802.1X)	 Disabled: 802.1X is disabled.
Authentication	MAC-Based authentication type state
Type	Enabled: MAC-Based authentication is enabled
(MAC-Based)	 Disabled: MAC-Based authentication is disabled
Authentication	WEB-Based authentication type state
Type	Enabled: WEB-Based authentication is enabled
(WEB-Based)	 Disabled: WEB-Based authentication is disabled
	Authenticating host mode
	 Multiple Authentication: In this mode, every client need to
	pass authenticate procedure individually
	 Multiple Hosts: In this mode, only one client need to be
Host Mode	authenticated and other clients will get the same access
	accessibility. Web-auth cannot be enabled in this mode
	 Single Host: In this mode, only one host is allowed to be
	authenticated. It is the same as Multi-auth mode with max
	hosts number configure to be 1
	Support following authentication type order combinations. Web
	Authentication should always be the last type. The authentication
	manager will go to next type if current type is not enabled or
	authenticated fail
	\bullet 802 1v
	• MAC-Based
Ordor	 WAC-based W/EB-Based
	 802 1x MAC-Based
	 802.1x WAC-based 802.1x W/EB-Based
	 MAC Based 802.1x
	 WAC-based 802.1X W/EB-Based 802.1x
	 WED-based 802.1X 802.1x MAC Based WEB Based
	 802.1x MAC-based WLB-based 802.1x M/EB Based MAC Based
	Support following authentication method order combinations
	These orders only available on MAC Based authentication and
	WER Pased authentication 202 1x only support Padius method
Mothad	• Local: Lico DUT's local database to de authentication
	Local. Use DUT'S local database to do authentication
	Radius: Use remote RADIUS server to do authentication
Guest VLAN	Port guest VLAN enable state

	 Enabled: Guest VLAN is enabled on port. Disabled: Guest VLAN is disabled on port
VLAN Assign Mode	 Support following VLAN assign mode and only apply when source is RADIUS Disable: Ignore the VLAN authorization result and keep original VLAN of host. Reject: If get VLAN authorized information, just use it. However, if there is no VLAN authorized information, reject the host and make it unauthorized. Static: If get VLAN authorized information, just use it. If there is no VLAN authorized information, just use it. If there is no VLAN authorized.

Click "Edit" button to view the Edit Port Mode menu.

Edit Port Mode

Port	GE1
	■ 802.1x
Authentication Type	MAC-Based
	WEB-Based
Host Mode	 Multiple Authentication Multiple Hosts Single Host
	Available Type Select Type
Order	MAC-Based WEB-Based 802.1x
	Available Method Select Method
Method	Local
Guest VLAN	Enable
VLAN Assign Mode	 Disable Reject Static
Apply Close	

ltem	Description
Port	Selected port list.
Authentication Type	Set checkbox to enable/disable authentication types.
Host Mode	 Select authenticating host mode Multiple Authentication: In this mode, every client need to pass authenticate procedure individually. Multiple Hosts: In this mode, only one client need to be authenticated and other clients will get the same access accessibility. Web-auth cannot be enabled in this mode. Single Host: In this mode, only one host is allowed to be authenticated. It is the same as Multi-auth mode with max hosts number configure to be 1.
Order	Support following authentication type order combinations. Web Authentication should always be the last type. The authentication manager will go to next type if current type is not enabled or authenticated fail. 802.1x MAC-Based WEB-Based 802.1x MAC-Based 802.1x WEB-Based MAC-Based 802.1x WEB-Based 802.1x WEB-Based 802.1x 802.1x MAC-Based WEB-Based 802.1x WEB-Based WEB-Based
Method	 Support following authentication method order combinations. These orders only available on MAC-Based authentication and WEB-Based authentication. 802.1x only support Radius method. Local: Use DUT's local database to do authentication. Radius: Use remote RADIUS server to do authentication. Local Radius. Radius Local.
Guest VLAN	Set checkbox to enable/disable guest VLAN.
VLAN Assign Mode	 Support following VLAN assign mode and only apply when source is RADIUS Disable: Ignore the VLAN authorization result and keep original VLAN of host. Reject: If get VLAN authorized information, just use it. However, if there is no VLAN authorized information, reject the host and make it unauthorized. Static: If get VLAN authorized information, just use it. If

Q _____

IV-10-6-2. Port Setting

This page allow user to configure authentication manger port settings

To display the authentication manager Port Setting web page, click **Security > Authentication Manager > Port Setting**.

Port Setting Table

						Commo	n Timer			802 1 v Da	rameters	
	Entry	Port	Port Control	Reauthentication	Max Hosts	Reauthentication	Inactive	Quiet	TX Period	Supplicant Timeout	Server Timeout	Max Request
	1	GE1	Disabled	Disabled	256	3600	60	60	30	30	30	2
	2	GE2	Disabled	Disabled	256	3600	60	60	30	30	30	2
]	3	GE3	Disabled	Disabled	256	3600	60	60	30	30	30	2
1	4	GE4	Disabled	Disabled	256	3600	60	60	30	30	30	2
	5	GE5	Disabled	Disabled	256	3600	60	60	30	30	30	2
	6	GE6	Disabled	Disabled	256	3600	60	60	30	30	30	2
	7	GE7	Disabled	Disabled	256	3600	60	60	30	30	30	2
]	8	GE8	Disabled	Disabled	256	3600	60	60	30	30	30	2
]	9	GE9	Disabled	Disabled	256	3600	60	60	30	30	30	2
	10	GE10	Disabled	Disabled	256	3600	60	60	30	30	30	2
	11	GE11	Disabled	Disabled	256	3600	60	60	30	30	30	2
	12	GE12	Disabled	Disabled	256	3600	60	60	30	30	30	2
	13	GE13	Disabled	Disabled	256	3600	60	60	30	30	30	2
	14	GE14	Disabled	Disabled	256	3600	60	60	30	30	30	2
	15	GE15	Disabled	Disabled	256	3600	60	60	30	30	30	2
	16	GE16	Disabled	Disabled	256	3600	60	60	30	30	30	2
	17	GE17	Disabled	Disabled	256	3600	60	60	30	30	30	2
	18	GE18	Disabled	Disabled	256	3600	60	60	30	30	30	2
	19	GE19	Disabled	Disabled	256	3600	60	60	30	30	30	2
	20	GE20	Force Authorized	Enabled	256	3600	60	60	30	30	30	2
	21	GE21	Disabled	Disabled	256	3600	60	60	30	30	30	2
	22	GE22	Disabled	Disabled	256	3600	60	60	30	30	30	2
	23	GE23	Disabled	Disabled	256	3600	60	60	30	30	30	2
	24	GE24	Disabled	Disabled	256	3600	60	60	30	30	30	2
	25	XGE1	Disabled	Disabled	256	3600	60	60	30	30	30	2
j.	26	XGE2	Disabled	Disabled	256	3600	60	60	30	30	30	2
1	27	XGE3	Disabled	Disabled	256	3600	60	60	30	30	30	2
	28	XGE4	Disabled	Disabled	256	3600	60	60	30	30	30	2

Edit

Item	Description
Port	Port
Port Control	 Support following authentication port control types. Disable: Disable authentication function and all clients have network accessibility. Force Authorized: Port is force authorized and all clients have network accessibility. Force Unauthorized: Port is force unauthorized and all clients have no network accessibility. Auto: Need passing authentication procedure to get network accessibility.
Reauthentication	 Reautheticate state Enabled: Host will be reauthenticated after reauthentication period. Disabled: Host will not be reauthenticated after reauthentication period.

Max Hosts	In Multiple Authentication mode, total host number cannot
	not exceed max hosts number.
Common Timer	After re-authenticate period, host will return to initial state
(Reauthentication)	and need to pass authentication procedure again.
	If no packet from the authenticated host, the inactive timer
Common Timer	will increase. After inactive timeout, the host will be
	unauthorized and corresponding session will be deleted. In
	multi-host mode, the packet is counting on the authorized
	host only.
Common Timer	When port is in Locked state after authenticating fail several
	times, the host will be locked in quiet period. After this quiet
	period, the host is allowed to authenticate again.
	Number of seconds that the device waits for a response to an
802.1X Params	Extensible Authentication Protocol (EAP) request/identity
(TX Period)	frame from the supplicant (client) before resending the
	request.
802.1X Params	The maximum number of EAP requests that can be sent. If a
(Supplicant	response is not received after the defined period (supplicant
Timeout)	timeout), the authentication process is restarted.
802.1X Params	Number of seconds that lapses before EAP requests are
(Server Timeout)	resent to the supplicant.
802.1X Params	Number of seconds that lapses before the device resends a
(Max Request)	request to the authentication server.
Wob Based Baram	Allow user login fail number. After login fail number exceed,
(May Login)	the host will enter Lock state and is not able to authenticate
	until quiet period exceed.

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1			
Port Control	 Disabled Force Authorized Force Unauthorized Auto 			
Reauthentication	Enable			
Max Hosts	256	(1 - 256, default 256)		
Common Timer				
Reauthentication	3600	Sec (300 - 4294967294, default 3600)		
Inactive	60	Sec (60 - 65535, default 60)		
Quiet	60	Sec (0 - 65535, default 60)		
802.1x Parameters				
TX Period	30	Sec (1 - 65535, default 30)		
Supplicant Timeout	30	Sec (1 - 65535, default 30)		
Server Timeout	30	Sec (1 - 65535, default 30)		
Max Request	2	(1 - 10, default 2)		
Web-Based Parameters				
Max Login	Infinite			
max Login	3	(3 - 10, default 3)		
Apply Close				

Item	Description
Port	Port Name.
Port Control	 Support following authentication port control types. Disable: Disable authentication function and all clients have network accessibility. Force Authorized: Port is force authorized and all clients have network accessibility. Force Unauthorized: Port is force unauthorized and all clients have no network accessibility. Auto: Need passing authentication procedure to get network accessibility.
Reauthentication	Set checkbox to enable/disable reuauthentication.
Max Hosts	In Multiple Authentication mode, total host number cannot not exceed max hosts number.

Common Timer					
Reauthentication	After re-authenticate period, host will return to initial state and need to pass authentication procedure again.				
Inactive	If no packet from the authenticated host, the inactive timer will increase. After inactive timeout, the host will be unauthorized and corresponding session will be deleted. In multi-host mode, the packet is counting on the authorized host only and not all packets on the port.				
Quiet	When port is in Locked state after authenticating fail several times, the host will be locked in quiet period. After this quiet period, the host is allowed to authenticate again.				
802.1X Params					
TX Period	Number of seconds that the device waits for a response to an Extensible Authentication Protocol (EAP) request/identity frame from the supplicant (client) before resending the request.				
Supplicant Timeout	The maximum number of EAP requests that can be sent. If a response is not received after the defined period (supplicant timeout), the authentication process is restarted.				
Server Timeout	Number of seconds that lapses before EAP requests are resent to the supplicant.				
Max Request	Number of seconds that lapses before the device resends a request to the authentication server.				
Web-Based Param					
Max Login	Set checkbox to set max login number to be infinite or specify max login number.				

IV-10-6-3. MAC-Base Local Account

Click "Edit" or "ADD" button to view Edit MAC-Based Local Account menu.

MAC-Based Local Account Table						
Showing All v entries	Showing 0 to 0 of 0 entries	Q				
MAC Address Control VLAN Timeout (Sec) Reauthentication Inactive						
	0 results found.					
Add Edit Delete First Previous 1 Next						

Add MAC-Based Local Account

MAC Address						
Port Control	Force AuthorizedForce Unauthorized					
	User Defined					
VLAN	1	(1 - 4094)				
Assigned Timer						
	User Defined					
Reauthentication	3600	Sec (300 - 4294967294)				
	User Defined					
Inactive	60	Sec (60 - 65535)				
Apply Close						

ltem	Description				
MAC Address	Enter the MAC Address				
Port Control	 Support following authentication port control types. Disable: Disable authentication function and all clients have network accessibility.Force Authorized: Port is force authorized and all clients have network accessibility. Force Unauthorized: Port is force unauthorized and all clients have no network accessibility. Auto: Need passing authentication procedure to get network accessibility. 				
VLAN	Set the VLAN (1~4094)				
Assigned Timer					
Reauthentication	After re-authenticate period, host will return to initial state and need to pass authentication procedure again.				
Inactive	If no packet from the authenticated host, the inactive timer will increase. After inactive timeout, the host will be unauthorized and corresponding session will be deleted. In multi-host mode, the packet is counting on the authorized host only and not all packets on the port.				

IV-10-6-4. WEB-Base Local Account

WEE	WEB-Based Local Account Table						
Showing All entries					Showing 0 to 0 of 0 entries	Q	
•	Username	VLAN	Timeout (Se Reauthentication	ec) Inactive			
					0 results found.		
	Add Edit Delete First Previous 1 Next						

Click "Edit" or "ADD" button to view Edit MAC-Based Local Account menu.

Username	
Password	
Confirm Password	
VLAN	User Defined (1 - 4094)
ssigned Timer	
Reauthentication	User Defined 3600 Sec (300 - 4294967294)
Inactive	User Defined 60 Sec (60 - 65535)

Add WEB-Based Local Account

Item	Description
Username	Enter the username.
Password	Enter the password.
Confirm Password	Re-enter the password.
VLAN	Set the VLAN (1~4094)
Assigned Timer	
Reauthentication	After re-authenticate period, host will return to initial state and need to pass authentication procedure again.
Inactive	If no packet from the authenticated host, the inactive timer will increase. After inactive timeout, the host will be unauthorized and corresponding session will be deleted. In multi-host mode, the packet is counting on the authorized host only and not all packets on the port.

IV-10-6-5. Sessions

This page show all detail information of authentication sessions and allow user to select specific session to delete by clicking "**Clear**" button.

To display Sessions web page, click **Security > Authentication Manger > Sessions**.

Ses	Sessions Table												
Showing All entries					Showing 0 to 0 of 0 entries						Q		
						Operational Information				Authorized Information			
	Session ID	Port	MAC Address	Current Type	Status	VIAN	Session	Inactived	Quiet	VIAN	Reauthentication	Inactive	
							Time	Time	Time		Period	Timeout	
	D results found.												
	Clear Refresh (First Previous 1 Next Last												

ltem	Description								
Session ID	Session ID is unique of each session.								
Port	Port name which the host located.								
MAC Address	Host MAC address.								
Current Type	 Show current authenticating type 802.1x: Use IEEE 802.1X to do authenticating MAC-Based: Use MAC-Based authentication to do authenticating. WEB-Based: Use WEB-Based authentication to do authenticating. 								
Status	 Show host authentication session status IP version (IPv4, IPv6) Disable: This session is ready to be deleted Running: Authentication process is running Authorized: Authentication is passed and getting network accessibility. UnAuthorized: Authentication is not passed and not getting network accessibility. Locked: Host is locked and do not allow to do authenticating until quiet period. Guest: Host is in the guest VLAN. 								
Operational (VLAN)	Shows host operational VLAN ID.								
Operational (Session Time)	In "Authorized" state, it shows total time after authorized.								
Operational (Inactived)	In "Authorized" state, it shows how long the host do not send any packet.								
Operational	In "Locked" state, it shows total time after locked.								
(Quiet Time)									
--	--								
Authorized (VLAN)	Shows VLAN ID given from authorized procedure.								
Authorized (Reauthentication Period)	Shows reauthentication period given from authorized procedure.								
Authorized (Inactive Timeouts)	Shows inactive timeout given from authorized procedure.								

IV-10-7. Port Security

This page allow user to configure port security settings for each interface. When port security is enabled on interface, action will be perform once learned MAC address over limitation.

To display Port Security web page, click **Security > Port Security**.

Port Sec	curity Table			
				0
	Entry Port	State MAC Address	a Antino	~
	1 GE1	Disabled		
111	2 GE2	Disabled	1 Diversi	
	3 GE3	Disabled	1 Dispard	
	4 GE4	Disabled	1 Diseriel	
	5 GE5	Disabled	Desard	
177	6 GE6	Disabled	Diseard	
	7 GE7	Disabled	Diseard	
	8 GE8	Disabled	Disard	
	9 GE9	Disabled	1 Disoard	
	10 GE10	Disabled	1 Discard	
E	11 GE11	Disabled	1 Disard	
	12 GE12	Disabled	1 Discard	
E	13 GE13	Disabled	1 Discard	
	14 GE14	Disabled	1 Discard	
[^m]	15 GE15	Disabled	1 Discard	
1	18 GE18	Disabled	1 Discard	
	17 GE17	Disabled	1 Discard	
	18 GE18	Disabled	1 Discard	
	19 GE19	Disabled	1 Discard	
	20 GE20	Disabled	1 Discard	
	21 GE21	Disabled	1 Discard	
	22 GE22	Disabled	1 Discard	
	23 GE23	Disabled	1 Discard	
	24 GE24	Disabled	1 Discard	
	25 XGE1	Disabled	1 Discard	
	26 XGE2	Disabled	1 Discard	
	27 XGE3	Disabled	1 Discard	
	28 XGE4	Disabled	1 Discard	
	29 LAG1	Disabled	1 Discard	
	30 LAG2	Disabled	1 Discard	
	31 LAG3	Disabled	1 Discard	
	32 LAG4	Disabled	1 Discard	
	33 LAG5	Disabled	1 Discard	
	34 LAG8	Disabled	1 Discard	
	35 LAG7	Disabled	1 Discard	
	38 LAG8	Disabled	1 Discard	

Edit

ltem	Description				
State	Enable/Disable the port security function.				
Port	Select one or multiple ports to configure.				
	Select the status of port security				
State	 Disable: Disable port security function. 				
	 Enable: Enable port security function. 				
MAC	Specify the number of how many man addresses can be learned				
Address	specify the number of now many mac addresses can be learned.				

	Select the action if learned mac addresses
	 Forward: Forward this packet whose SMAC is new to system
	and exceed the learning-limit number.
Action	 Discard: Discard this packet whose SMAC is new to system and
	exceed the learning-limit number.
	 Shutdown: Shutdown this port when receives a packet whose
	SMAC is new to system and exceed the learning limit number.

Click "**Edit**" button to view Edit Port Security menu.

Edit Port Security

[Port	GE1				
	State	Enable				
	MAC Address	1 (0 - 255, default 1)				
	Action	 Forward Discard Shutdown 				
	Apply Close					

ltem	Description					
Port	Select one or multiple ports to configure.					
	Select the status of port security					
State	Disable: Disable port security function.					
	Enable: Enable port security function.					
MAC Address	Specify the number of how many mac addresses can be learned.					
	Select the action if learned mac addresses					
	 Forward: Forward this packet whose SMAC is new to system 					
	and exceed the learning-limit number.					
Action	 Discard: Discard this packet whose SMAC is new to system 					
	and exceed the learning-limit number.					
	 Shutdown: Shutdown this port when receives a packet whose 					
	SMAC is new to system and exceed the learning limit number.					

IV-10-8. Traffic Segmentation

Traffic Segmentation prohibits ports to communicate with each other directly, on other manufacturers' switches

Traffic Segmentation Settings

Port List (e.g. GE1,GE2-5,XGE1-2)	All Ports
Forward Port List (e.g. GE1,GE2-5,XGE1-2)	All Ports

Apply

Traffic Segmentation Table

			Q
Entry	Port	Forward Port List	
1	GE1	GE21-24,XGE1-4	
2	GE2	GE21-24,XGE1-4	
3	GE3	GE21-24,XGE1-4	
4	GE4	GE21-24,XGE1-4	
5	GE5	GE21-24,XGE1-4	
6	GE6	GE21-24,XGE1-4	
7	GE7	GE21-24,XGE1-4	
8	GE8	GE21-24,XGE1-4	
9	GE9	GE21-24,XGE1-4	
10	GE10	GE21-24,XGE1-4	
11	GE11	GE21-24,XGE1-4	
12	GE12	GE21-24,XGE1-4	
13	GE13	GE21-24,XGE1-4	
14	GE14	GE21-24,XGE1-4	
15	GE15	GE21-24,XGE1-4	
16	GE16	GE21-24,XGE1-4	
17	GE17	GE21-24,XGE1-4	
18	GE18	GE21-24,XGE1-4	
19	GE19	GE21-24,XGE1-4	
20	GE20	GE21-24,XGE1-4	
21	GE21	GE1-20	
22	GE22	GE1-20	
23	GE23	GE1-20	
24	GE24	GE1-20	
25	XGE1	GE1-20	
26	XGE2	GE1-20	
27	XGE3	GE1-20	
28	XGE4	GE1-20	

IV-10-9. Storm Control

To display Storm Control global setting web page, click **Security > Storm Control**.



Port Setting Table

								Q		
_	Entry Dort		Dart State	Broadcast		Unknown Multicast Unknown		wn Unicast	Action	
	Entry Port	PUIL	State	State	Rate (Kbps)	State	Rate (Kbps)	State	Rate (Kbps)	Acuon
	1	GE1	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	2	GE2	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	3	GE3	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	4	GE4	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	5	GE5	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	6	GE6	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	7	GE7	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	8	GE8	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	9	GE9	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	10	GE10	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	11	GE11	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	12	GE12	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	13	GE13	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	14	GE14	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	15	GE15	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	16	GE16	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	17	GE17	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	18	GE18	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop
	19	GE19	Disabled	Disabled	10000	Disabled	10000	Disabled	10000	Drop

Item Description				
	Select the unit of storm control			
Mode(Unit)	 Packet / Sec: storm control rate calculates by packet-based 			
	 Kbits / Sec: storm control rate calculates by octet-based. 			
	Select the rate calculates w/o preamble & IFG (20 bytes)			
	 Excluded: exclude preamble & IFG (20 bytes) when count 			
IFG	ingress storm control rate.			
	 Included: include preamble & IFG (20 bytes) when count 			
	ingress storm control rate.			

Click "Edit" button to view Edit Port Setting menu.

Edit	Port	Setting

Port	GE1	
State	Enable	
Decederat	Enable	
Broadcast	10000	Kbps (16 - 1000000, default 10000)
Unknown Multisest	Enable	
Unknown Mutucast	10000	Kbps (16 - 1000000, default 10000)
	Enable	
Unknown Unicast	10000	Kbps (16 - 1000000, default 10000)
Action	DropShutdown	
Apply Close		

ltem	Description
Port	Select the setting ports.
Stata	Select the state of setting
State	Enable: Enable the storm control function.
	Enable: Enable the storm control function of Broadcast packet.
Broadcast	Value of storm control rate, Unit: pps (packet per-second, range
DIUducasi	1- 262143) or Kbps (Kbits per-second, range16 - 1000000)
	depends on global mode setting.
	Enable: Enable the storm control function of Unknown multicast
Unknown	packet. Value of storm control rate, Unit: pps (packet
Multicast	per-second, range 1- 262143) or Kbps (Kbits per-second, range16
	- 1000000) depends on global mode setting.
	Enable: Enable the storm control function of Unknown unicast
Unknown	packet. Value of storm control rate, Unit: pps (packet
Unicast	per-second, range 1 - 262143) or Kbps (Kbits per-second,
	range16 - 1000000) depends on global mode setting.
	Select the state of setting
Action	 Drop: Packets exceed storm control rate will be dropped.
	 Shutdown: Port will be shut down when packets exceed
	storm control rate.

IV-10-10. DoS

A Denial of Service (DoS) attack is a hacker attempt to make a device unavailable to its users. DoS attacks saturate the device with external communication requests, so that it cannot respond to legitimate traffic. These attacks usually lead to a device CPU overload.

The DoS protection feature is a set of predefined rules that protect the network from malicious attacks. The DoS Security Suite Settings enables activating the security suite.

IV-10-10-1. Property

To display Dos Global Setting web page, click **Security > Dos > Property**.

POD		Enable
Land		Enable
UDP Blat		Enable
TCP Blat		Enable
Li		
DMAC = SMAC		Enable
Null Scan Attack		Enable
X-Mas Scan Attack		Enable
TCP SYN-FIN Attack		Enable
TCP SYN-RST Attack		Enable
ICMP Fragment		Enable
		Enable
TCP-STN	No	te: Source Port < 1024
		Enable
TCP Fragment	No	te: Offset = 1
ii		
		Enable IPv4
Ping Max Size	√	Enable IPv6
	51	2 Byte (0 - 65535, default 512)
		Enable
TCP Min Hdr size	20	Puto (0, 21, dofault 20)
	20	Byte (0 - 51, delaut 20)
Duc Min Fragment	1	Enable
IPvo min Fragment	12	40 Byte (0 - 65535, default 1240)
		Enable
Smurf Attack	0	Netmask Length (0 - 32, default 0)
L		

Apply

ltem	Description
POD	Avoids ping of death attack.
Land	Drops the packets if the source IP address is equal to the destination IP address.
UDP Blat	Drops the packets if the UDP source port equals to the UDP destination port.
TCP Blat	Drops the packages if the TCP source port is equal to the TCP destination port.
DMAC = SMAC	Drops the packets if the destination MAC address is equal to

	the source MAC address.		
Null Scan Attach	Drops the packets with NULL scan.		
X-Mas	Drops the packets if the sequence number is zero, and the		
Scan Attack	FIN, URG and PSH bits are set.		
TCP SYN-FIN	Drops the packets with SYN and FIN bits set.		
Attack			
TCP SYN-RST	Drops the packets with SYN and RST bits set		
Attack			
ICMP Fragment	Drops the fragmented ICMP packets.		
TCP SYN	Drops SVN packets with sport less than 1024		
(SPORT<1024)			
TCP Fragment	Drops the TCP fragment packets with offset equals to one.		
(Offset = 1)			
	Specify the maximum size of the ICMPv4/ICMPv6 ping		
Ping Max Size	packets. The valid range is from 0 to 65535 bytes, and the		
	default value is 512 bytes.		
	Checks the minimum size of IPv6 fragments, and drops the		
IPv6 Min Fragment	packets smaller than the minimum size. The valid range is		
	from 0 to 65535 bytes, and default value is 1240 bytes.		
Smurf Attack	Avoids smurf attack. The length range of the netmask is from		
	0 to 323 bytes, and default length is 0 bytes.		

IV-10-10-2. Port Setting

To configure and display the state of DoS protection for interfaces, click **Security > DoS > Port Setting**.

Entry	Port	State
1	GE1	Disabled
2	GE2	Disabled
3	GE3	Disabled
E 4	GE4	Disabled
5	GE5	Disabled
6	GE6	Disabled
7	GE7	Disabled
8	GE8	Disabled
9	GE9	Disabled
10	GE10	Disabled
11	GE11	Disabled
12	GE12	Disabled
13	GE13	Disabled
14	GE14	Disabled
15	GE15	Disabled
16	GE16	Disabled
1/	GE17	Disabled
18	GE18	Disabled
19	GE19	Disabled
20	GE20	Disabled
21	GE21	Disabled
22	GE22	Disabled
23	GE24	Disabled
24	XGE1	Disabled
26	XGE2	Disabled
27	XGE3	Disabled
28	XGE4	Disabled
Edit	٦	

ltem	Description
Port	Interface or port number.
State	Enable/Disable the DoS protection on the interface.

IV-10-11. DHCP Snooping

Use the DHCP Snooping pages to configure settings of DHCP Snooping.

IV-10-11-1. Property

This page allow user to configure global and per interface settings of DHCP Snooping.

To display property page, click **Security > DHCP Snooping > Property**.

State	Enable			
	Available V	/LAN	Selec	ted VLAN
	VLAN 1	•		
VLAN			>	
			<u> </u>	
L				
Apply	ר			

Port Setting Table

						Q
	Entry	Port	Trust	Verify Chaddr	Rate Limit	
	1	GE1	Disabled	Disabled	Unlimited	
	2	GE2	Disabled	Disabled	Unlimited	
	3	GE3	Disabled	Disabled	Unlimited	
	4	GE4	Disabled	Disabled	Unlimited	
	5	GE5	Disabled	Disabled	Unlimited	
	6	GE6	Disabled	Disabled	Unlimited	
	7	GE7	Disabled	Disabled	Unlimited	
	8	GE8	Disabled	Disabled	Unlimited	
	9	GE9	Disabled	Disabled	Unlimited	
	10	GE10	Disabled	Disabled	Unlimited	
lte	m		D	escription		

State	Set checkbox to enable/disable DHCP Snooping function.			
	Select VLANs in left box then move to right to enable DHCP			
VLAN	Snooping. Or select VLANs in right box then move to left to			
	disable DHCP Snooping.			
Port Setting Table				
Port	Display port ID.			
Trust	Display enable/disabled trust attribute of interface.			
Verify Chaddr	Display enable/disabled chaddr validation attribute of interface.			
Rate Limit	Display rate limitation value of interface.			

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1
Trust	Enable
Verify Chaddr	Enable
Rate Limit	0 pps (0 - 300, default 0), 0 is Unlimited

Apply Close

ltem	Description			
Port	Display selected port to be edited			
Truct	Set checkbox to enable/disabled trust of interface. All DHCP			
Trust	packet will be forward directly if enable trust. Default is disabled.			
	Set checkbox to enable or disable chaddr validation of interface.			
Varify Chaddr	All DHCP packets will be checked whether client hardware mac			
verity chaddr	address is same as source mac in Ethernet header if enable chaddr			
	validation. Default is disabled.			
Data Limit	Input rate limitation of DHCP packets. The unit is pps. 0 means			
	unlimited. Default is unlimited.			

IV-10-11-2. Statistics

This page allow user to browse all statistics that recorded by DHCP snooping function.

To view the Statistics menu, navigate to **Security > DHCP Snooping > Statistics**.

En En	ry Port	t Forward	Chaddr Check Drop	Untrust Port Drop	Untrust Port with Option82 Drop	Invalid Drop	
	1 GE1	0	0	0	0	0	
	2 GE2	0	0	0	0	0	
1	3 GE3	0	0	0	0	0	
1	4 GE4	0	0	0	0	0	
1	5 GE5	0	0	0	0	0	
1	6 GE6	0	0	0	0	0	
1	7 GE7	0	0	0	0	0	
	8 GE8	0	0	0	0	0	
	9 GE9	0	0	0	0	0	
	10 GE10	0	0	0	0	0	
	11 GE11	0	0	0	0	0	
	12 GE12	0	0	0	0	0	
	13 GE13	0	0	0	0	0	
	14 GE14	0	0	0	0	0	
	15 GE15	0	0	0	0	0	
	16 GE16	0	0	0	0	0	
	17 GE17	. 0	0	0	0	0	
	18 GE18	0	0	0	0	0	
	19 GE19	0	0	0	0	0	
	20 GE20	0	0	0	0	0	
	21 GE21	0	0	0	0	0	
	22 GE22	0	0	0	0	0	
	23 GE23	0	0	0	0	0	
	24 GE24	0	0	0	0	0	
	25 XGE1	0	0	0	0	0	
	28 XGE2	2 0	0	0	0	0	
	27 XGE3	. 0	0	0	0	0	
	28 XGE4	. 0	0	0	0	0	
	29 LAG1	0	0	0	0	0	
	30 LAG2	0	0	0	0	0	
	31 LAG3	0	0	0	0	0	
	32 LAG4	0	0	0	0	0	
	33 LAG5	. 0	0	0	0	0	
	34 LAG6	0	0	0	0	0	
	35 LAG7	. 0	0	0	0	0	
	38 LAG8	0	0	0	0	0	

Clear Refresh

Item	Description
Port	Display port ID.
Forwarded	Display how many packets forwarded normally.
Chaddr Check Drop	Display how many packets dropped by chaddr validation.
Untrusted Port Drop	Display how many DHCP server packets that are received by untrusted port dropped.
Untrusted Port with Option82 Drop	Display how many packets dropped by untrusted port with option82 checking.
Invalid Drop	Display how many packets dropped by invalid checking.

IV-10-11-3. Option82 Property

This page allow user to set string of DHCP option82 remote ID filed. The string will attach in option82 if option inserted.

To display Option82 Property page, click **Security > DHCP Snooping > Option82 Property**.

Remote ID	User Defined
Operational St	atus
Remote ID	74:da:38:17:6e:7a (Switch Mac in Byte Order)
Apply	

				Q
Entry	Port	State	Allow Untrust	
1	GE1	Disabled	Drop	
2	GE2	Disabled	Drop	
3	GE3	Disabled	Drop	
4	GE4	Disabled	Drop	
5	GE5	Disabled	Drop	
6	GE6	Disabled	Drop	
7	GE7	Disabled	Drop	
8	GE8	Disabled	Drop	
9	GE9	Disabled	Drop	
10	GE10	Disabled	Drop	
11	GE11	Disabled	Drop	
12	GE12	Disabled	Drop	
13	GE13	Disabled	Drop	
14	GE14	Disabled	Drop	
15	GE15	Disabled	Drop	
16	GE16	Disabled	Drop	
17	GE17	Disabled	Drop	
18	GE18	Disabled	Drop	
19	GE19	Disabled	Drop	
20	GE20	Disabled	Drop	
21	GE21	Disabled	Drop	
22	GE22	Disabled	Drop	

Item	Description
Licor Dofined	Set checkbox to enable user-defined remote-ID. By default,
User Denneu	remote ID is switch mac in byte order.
Domoto ID	Input user-defined remote ID. Only available when enable
Remote iD	user-define remote ID.
Port Setting Tabl	e
Port	Display port ID.
State	Display option82 enable/disable status of interface.
Allow	Display allow untrusted action of interface
untrusted	Display allow untrusted action of Interface.

Click "Edit" button to view Edit Port Setting menu.

Edit Port Setting

Port	GE1
State	Enable
Allow Untrust	 Keep Drop Replace
Apply C	lose

ltem	Description
Port	Display selected port to be edited
State	Set checkbox to enable/disable option82 function of interface.
Allow untrusted	 Select the action perform when untrusted port receive DHCP packet has option82 filed. Default is drop. Keep: Keep original option82 content. Replace: Replace option82 content by switch setting Drop: Drop packets with option82

IV-10-11-4. Option82 Circuit ID

This page allow user to set string of DHCP option82 circuit ID filed. The string will attach in option82 if option inserted.

To display Option82 Circuit ID page, click **Security > DHCP Snooping > Option82 Circuit ID**.

Option82 Circuit ID Table				
Showing All entries	Showing 0 to 0 of 0 entries	Q		
Port VLAN Circuit ID				
	0 results found.			
Add Edit	Delete	First Previous 1 Next Last		

Item	Description
Port	Display port ID of entry.
VLAN	Display associate VLAN of entry.
Circuit ID	Display circuit ID string of entry.

Click "Add" button or "Edit" button to view the Add/Edit Option82 Circuit ID menu.

Add Option82 Circuit ID

Port VLAN Circuit ID	GE1 ▼ (1 - 4094) (Keep empty to set without VLAN)
Apply Edit Option82 C	Close
Port VLAN Circuit ID	
Apply	Close

Item	Description
Dort	Select port from list to associate to CID entry. Only available on Add
POIL	dialog.
	Input VLAN ID to associate to circuit ID entry. VLAN ID is not
VLAN	mandatory. Only available on Add dialog.
Circuit ID	Input String as circuit ID. Packets match port and VLAN will be
	inserted circuit ID.

IV-10-12. IP Source Guard

Use the IP Source Guard pages to configure settings of IP Source Guard.

IV-10-12-1. Port Setting

Use the IP Source Guard pages to configure settings of IP Source Guard.

To display Port Setting page, click **Security > IP Source Guard > Port Setting**.

_	_	_				_
Ent	ry 🛛	Port	State	Verify Source	e Current Entry	M
	1 0	GE1	Disabled	IP	0	
1	2 0	3E2	Disabled	IP	0	
1	3 0	GE3	Disabled	IP	0	Uni
	4 0	GE4	Disabled	IP	0	Unlimiter
	5 0	3E5	Disabled	IP	0	Unlimited
m	6 0	GE6	Disabled	IP	0	Unlimited
	7 0	GE7	Disabled	IP	0	Unlimited
		359	Disabled	IP	0	Unlimited
	0 0	000	Disabled	10	0	ommitted
	9 0	959	uisabled	IP	0	Uniimited
	0 0	3E10	Disabled	IP	0	Unlimited
	11 0	3E11	Disabled	IP	0	Unlimited
	12 0	GE12	Disabled	IP	0	Unlimited
	13 0	GE13	Disabled	IP	0	Unlimited
	4 0	3E14	Disabled	IP	0	Unlimited
	15 0	GE15	Disabled	IP	0	Unlimited
E -	18 0	GE16	Disabled	IP	0	Unlimited
m •	17 0	3E17	Disabled	IP	0	Unlimited
(m) -	18 0	GE18	Disabled	IP	0	Unlimited
	9 0	3E19	Disabled	IP	0	Unlimited
(E) ·	20 0	3520	Disabled	IP	0	Unlimited
		0000	Disabled	10	0	Unlimited
		3621	Disabled	P	0	Uninnited
	<i>cz</i> (3E22	Disabled	IP	0	Unlimited
	23 0	3E23	Disabled	IP	0	Unlimited
	24 0	GE24	Disabled	IP	0	Unlimited
	25 >	KGE1	Disabled	IP	0	Unlimited
	28 >	KGE2	Disabled	IP	0	Unlimited
	27 >	KGE3	Disabled	IP	0	Unlimited
	28 >	KGE4	Disabled	IP	0	Unlimited
E :	29 L	LAG1	Disabled	IP	0	Unlimited
	30 L	LAG2	Disabled	IP	0	Unlimited
	31 L	LAG3	Disabled	IP	0	Unlimited
	32 L	LAG4	Disabled	IP	0	Unlimited
	33 L	LAG5	Disabled	IP	0	Unlimited
m	14 L	AGB	Disabled	IP	0	Unlimited
(FT)	15 1	AG7	Disabled	IP	0	Unlimited
		468	Disabled	IP	0	Unlimited
·	_		o so dieu		•	
Edit						

0

ltem	Description	
Port	Display port ID.	
State	Display IP Source Guard enable/disable status of interface.	
Verify Source	Display mode of IP Source Guard verification	
Current Binding	Display surrent hinding entries of a interface	
Entry	Display current binding entries of a interface.	
Max Binding	Dicplay the number of maximum binding entry of interface	
Entry	Display the number of maximum binding entry of interface.	

Click "Edit" button to view the Edit Port Setting menu.

Edit Port Setting

Port	GE1
State	Enable
Verify Source	 IP IP-MAC
Max Entry	0 (0 - 50, default 0), 0 is Unlimited
Apply C	lose

Item	Description						
Port Display selected port to be edited.							
Status	Set checkbox to enable or disable IP Source Guard function. Default is disabled.						
Verify Source	 Select the mode of IP Source Guard verification IP: Only verify source IP address of packet. 						

	• IP-MAC: Verify source IP and source MAC address of packet.
Max Entry	Input the maximum number of entries that a port can be bounded. Default is un-limited on all ports. No entry will be bound if limitation reached.

IV-10-12-2. IMPV Binding

This page allow user to add static IP source guard entry and browse all IP source guard entries that learned by DHCP snooping or statically create by user.

To display IPMV Binding page, click **Security > IP Source Guard > IMPV Binding**.

IP-MAC-Port-VLAN Binding Table

Showing All entries		Showing 0 to 0 of 0 entries			Q				
Port VLA	IP Address	Binding	Туре	Lease Time					
	0 results found.								
Add	Edit	elete				First Previous 1	Next Last		

ltem	Description						
Port	Display port ID of entry.						
VLAN	Display VLAN ID of entry.						
MAC Address	Display MAC address of entry. Only available of IP-MAC binding						
	entry.						
	Display IP address of entry. Mask always to be 255.255.255.255						
IF Address	for IP-MAC binding. IP binding entry display user input.						
Binding	Display binding type of entry.						
	Type of existing binding entry						
Туре	 Static: Entry added by user. 						
	 Dynamic: Entry learned by DHCP snooping. 						
	Lease time of DHCP Snooping learned entry. After lease time						
	entry will be deleted. Only available of dynamic entry.						

Click "Add" or "Edit" button to view the Add/Edit IP-MAC-Port-VLAN Binding menu.

Add IP-MAC-Port-VLAN Binding

Port	GE1 V
VLAN	(1 - 4094)
Binding	 IP-MAC-Port-VLAN IP-Port-VLAN
MAC Address	
IP Address	/ 255.255.255

Apply

Close

Edit IP-MAC-Port-VLAN Binding

Port	GE1 V	
VLAN	20	
Binding	IP-MAC-Port-VLAN	
MAC Address	00:11:22:33:44:55	
IP Address	192.168.2.33	/ 255.255.255

Apply Clos

Close

Item	Description					
Port	Select port from list of a binding entry.					
VLAN	Specify a VLAN ID of a binding entry.					
	Select matching mode of binding entry					
	IP-MAC-Port-VLAN: packet must match IP address < MAC					
Binding	address < Port and VLAN ID.					
	IP-Port-VLAN: packet must match IP address or subnet < Port and					
	VLAN ID.					
MAC Address	Input MAC address. Only available on IP-MAC-Port-VLAN mode.					
ID Addross	Input IP address and mask. Mask only available on IP-MAC-Port					
IP Address	mode.					

IV-10-12-3. Save Database

This page allow user to configure DHCP snooping database which can backup and restore dynamic DHCP snooping entries.

To display Save Database page, click **Security > DHCP Snooping > Save Database**.

Туре	 None Flash TFTP 	
Filename		
Address Type	 Hostname IPv4 	
Server Address		
Write Delay	300	Sec (15 - 86400, default 300)
Timeout	300	Sec (0 - 86400, default 300)

Apply

ltem	Description
	Select the type of database agent.
	 None: Disable database agent service.
Туре	 Flash: Save DHCP dynamic binding entries to flash.
	 TFTP: Save DHCP dynamic binding entries to remote TFTP
	server.
Filonamo	Input filename for backup file. Only available when selecting type
Filename	"flash" and "TFTP".
	Select the type of TFTP server.
Address Type	 Hostname: TFTP server address is hostname.
	 IPv4: TFTP server address is IPv4 address
Sonvor Addross	Input remote TFTP server hostname or IP address. Only available
Server Address	when selecting type "TFTP"
Mirita Dalay	Input delay timer for doing backup after change happened.
write Delay	Default is 300 seconds.
Timoout	Input aborts timeout for doing backup failure. Default is 300
limeout	seconds.

IV-11. ACL

Use the ACL pages to configure settings for the switch ACL features..

IV-11-1. MAC ACL

This page allow user to add or delete ACL rule. A rule cannot be deleted if under binding.

To display MAC ACL page, click **ACL > MAC ACL**.

ACL Name		
Apply		
ACL Table		
Showing All entries	Showing 0 to 0 of 0 entries	Q
ACL Name Rule	Port	
	0 results found.	
		First Previous 1 Next Last
Delete		
ltem	Description	
ACL Name	Input MAC ACL name.	
ACL Name	Display MAC ACL name.	
Rule	Display the number ACE rule of ACL.	
Port	Display the port list that bind this ACL.	

IV-11-2. MAC ACE

This page allow user to add, edit or delete ACE rule. An ACE rule cannot be edited or deleted if ACL under binding. New ACE cannot be added if ACL under binding.

To display MAC ACE page, click **ACL > MAC ACE**.

ACE	Table										
ACL N	Name None	▼									
Show	ing All 🔻 e	entries		Showing 0 to 0 of 0 entries			Q				
		Action	Source MAC Destination MAC			Ethortupo		802.1p			
	Sequence	ACUUII	Address	Mask	Address	Mask	Eulertype	VLAN	Value	Mask	
	0 results found.										
	First Previous 1 Next Last										

ltem	Description
ACL Name	Select the ACL name to which an ACE is being added.
Sequence	Display the sequence of ACE.
Action	Display the action of ACE.
Source MAC	Display the source MAC address and mask of ACE.
Destination	Display the destination MAC address and mask of ACE
MAC	Display the destination was address and mask of ACE.
Ethertype	Display the Ethernet frame type of ACE.
VLAN ID	Display the VLAN ID of ACE.
802.1p Value	Display the 802.1p value of ACE.
802.1p Mask	Display the 802.1p mask of ACE.

Click "Edit" button to view the Edit ACE menu.

Edit ACE

ACL Name	666		
Sequence	555		
Action	 Permit Deny Shutdown 		
Source MAC	✓ Any		(Address / Mask)
			(Address / Masky
Destination MAC	ley Any	1	(Address / Mask)
	Αργ		
Ethertype			
	0x	(0x600 ~ 0xFFFF)	
VLAN	Any		
	(1 - 4094))	
802 1n	🕑 Any		
UULTP		/	(Value / Mask) (0 - 7)

ltem	Description
ACL Name	Display the ACL name to which an ACE is being added
Sequence	Specify the sequence of the ACE. ACEs with higher sequence are processed first (1 is the highest priority). Only available on Add Dialog.
Action	 Select the action after ACE match packet. Permit: Forward packets that meet the ACE criteria. Deny: Drop packets that meet the ACE criteria. Shutdown: Drop packets that meet the ACE criteria, and disable the port from where the packets were received. Such ports can be reactivated from the Port Settings page.
Source MAC	 Select the type for source MAC address. Any: All source addresses are acceptable. User Defined: Only a source address or a range of source addresses which users define are acceptable. Enter the source MAC address and mask to which will be matched.
Destination	Select the type for Destination MAC address.

MAC	 Any: All destination addresses are acceptable. 			
	 User Defined: Only a destination address or a range of 			
	destination addresses which users define are acceptable.			
	Enter the destination MAC address and mask to which will			
	be matched.			
	Select the type for Ethernet frame type.			
	 Any: All Ethernet frame type is acceptable. 			
Ethertype	 User Defined: Only an Ethernet frame type which users 			
	define is acceptable. Enter the Ethernet frame type value to			
	which will be matched.			
	Select the type for VLAN ID.			
	 Any: All VLAN ID is acceptable. 			
VLAN	 User Defined: Only a VLAN ID which users define is 			
	acceptable. Enter the VLAN ID to which will be matched.			
	Select the type for 802.1p value.			
	 Any: All 802.1p value is acceptable. 			
802.1p	 User Defined: Only an 802.1p value or a range of 802.1p 			
	value which users define is acceptable. Enter the 802.1p			
	value and mask to which will be matched.			

IV-11-3. IPv4 ACL

This page allow user to add or delete IPv4 ACL rule. A rule cannot be deleted if under binding.

[
ACL Name		
L		
Apply		
ACL Table		
Showing All entries	Showing 0 to 0 of 0 entries	Q
ACL Name Rule	Port	
	0 results found.	
		First Previous 1 Next Last
Delete		
Item	Description	

To display IPv4 ACL page, click **ACL > IPv4 ACL**.

ACL Name	Input IPv4 ACL name.
ACL Name	Display IPv4 ACL name.
Rule	Display the number ACE rule of ACL.
Port	Display the port list that bind this ACL.

IV-11-4. IPv4 ACE

This page allow user to add, edit or delete ACE rule. An ACE rule cannot be edited or deleted if ACL under binding. New ACE cannot be added if ACL under binding.

To display IPv4 ACE page, click **ACL > IPv4 ACE**.

ACE	Table													
ACL N	Name None	•												
Show	ing All ▼ e	entries				Showing 0	to 0 of 0	entries				Q		
			So So		Source IP Destina		ation IP			TODEL	Type of Service			
	Formonco	Action	Drotocol	Source	e IP	Destinat	ion IP	Source Dort	Destination Dort		Тур	e of Service	IC	MP
	Sequence	Action	Protocol	Source Address	e IP Mask	Destinat Address	ion IP Mask	Source Port	Destination Port	TCP Flags	Typ DSCP	e of Service IP Precedence	IC Type	MP Code
	Sequence	Action	Protocol	Source Address	e IP Mask	Destinat Address	ion IP Mask	Source Port 0 results found.	Destination Port	TCP Flags	Typ DSCP	e of Service IP Precedence	IC Type	MP Code

ltem	Description
ACL Name	Select the ACL name to which an ACE is being added.
Sequence	Display the sequence of ACE.
Action	Display the action of ACE.
Protocol	Display the protocol value of ACE.
Source IP	Display the source IP address and mask of ACE.
Destination IP	Display the destination IP address and mask of ACE.
Source Dort	Display single source port or a range of source ports of ACE.
	Only available when protocol is TCP or UDP.
Destination Port	Display single destination port or a range of destination ports of
Destination Fort	ACE. Only available when protocol is TCP or UDP.
	Display the TCP flag value if ACE. Only available when protocol
I CF I lags	is TCP.
Tupo of Sorvico	Display the ToS value of ACE which could be DSCP or IP
Type of Service	Precedence.
	Display the ICMP type and code of ACE. Only available when
	protocol is ICMP.

Click "Add" or "Edit" button to view the Add/Edit ACE menu.

Edit ACE

· · · · · · · · · · · · · · · · · · ·			
ACL Name	777		
Sequence	888		
Action	 Permit Deny Shutdown 		
	Any		
Protocol	Select ICMP		
	O Define	(0 - 255)	
	🖉 Any		
Source IP		(Address / Mask	
	1	(Address / Mdsr	~/
Destination IP	Any		
	/	(Address / Mask	<)
	Any		
Type of Service	O DSCP	(0 - 63)	
	O IP Precedence	(0 - 7)	
	Any		
Source Dort		(0 - 65535)	
Source Port	Paper	(0	CEE2E)
		-]	- 05555)
	Any		
Destination Port	○ Single	(0 - 65535)	
	O Range	- (0	- 65535)
	Urg: 🔘 Set 🔍 Unset 🖲 Don't care		
	Ack: 🔘 Set 🔘 Unset 🖲 Don't care		
TCD Floor	Psh: 🔘 Set 🔘 Unset 🖲 Don't care		
TOP Haga	Rst: 🔘 Set 🔍 Unset 🖲 Don't care		
	Syn: 🔘 Set 🔍 Unset 🖲 Don't care		
	Fin: 🔘 Set 🔍 Unset 🖲 Don't care		
	Any		
ICMP Type	O Select Echo Reply		
	O Define	(0 - 255)	
	Any		
ICMP Code	O Define	(0 - 255)	
L			
Apply Clo	se		

ltem	Description
ACL Name	Display the ACL name to which an ACE is being added.
Sequence	Specify the sequence of the ACE. ACEs with higher sequence are processed first (1 is the highest sequence). Only available on Add dialog.
Action	 Select the action for a match. Permit: Forward packets that meet the ACE criteria. Deny: Drop packets that meet the ACE criteria. Shutdown: Drop packets that meet the ACE criteria, and disable the port from where the packets were received. Such ports can be reactivated from the Port Settings page.
Protocol	 Select the type of protocol for a match. Any (IP): All IP protocols are acceptable. Select from list: Select one of the following protocols from the drop-down list. ICMP/IPinIP/TCP/EGP/IGP/UDP/HMP/RDP/IPV6/IPV6:ROUT/IPV6:F RAG/ RSVP/IPV6:ICMP/OSPF/PIM/L2TP Protocol ID to match: Enter the protocol ID.
Source IP	 Select the type for source IP address. Any: All source addresses are acceptable. User Defined: Only a source address or a range of source addresses which users define are acceptable. Enter the source IP address value and mask to which will be matched.
Destination IP	 Select the type for destination IP address. Any: All destination addresses are acceptable. User Defined: Only a destination address or a range of destination addresses which users define are acceptable. Enter the destination IP address value and mask to which will be matched.
Source Port	 Select the type of protocol for a match. Only available when protocol is TCP or UDP. Any: All source ports are acceptable. Single: Enter a single TCP/UDP source port to which packets are matched. Range: Select a range of TCP/UDP source ports to which the packet is matched. There are eight different port ranges that can be configured (shared between source and destination ports). TCP and UDP protocols each have eight port ranges.
Destination Port	 Select the type of protocol for a match. Only available when protocol is TCP or UDP. Any: All source ports are acceptable. Single: Enter a single TCP/UDP source port to which packets are

	matched.
	 Range: Select a range of TCP/UDP source ports to which the
	packet is matched. There are eight different port ranges that
	can be configured (shared between source and destination
	ports). TCP and UDP protocols each have eight port ranges.
	Select one or more TCP flags with which to filter packets. Filtered
	packets are either forwarded or dropped. Filtering packets by TCP
TCI TIdg5	flags increases packet control, which increases network security.
	Only available when protocol is TCP.
	Select the type of service for a match.
Type of	 Any: All types of service are acceptable.
Service	 DSCP to match: Enter a Differentiated Serves Code Point (DSCP)
Jervice	to match.
	 IP Precedence to match: Enter a IP Precedence to match.
	Either select the message type by name or enter the message type
	number. Only available when protocol is ICMP.
ICMP Type	 Any: All message types are acceptable.
	 Select from list: Select message type by name.
	 Protocol ID to match: Enter the number of message type.
	Select the type for ICMP code. Only available when protocol is
ICMP Code	ICMP.
	 Any: All codes are acceptable.
	 User Defined: Enter an ICMP code to match.

IV-11-5. ACL Binding

This page allow user to bind or unbind ACL rule to or from interface. IPv4 and Ipv6 ACL cannot be bound to the same port simultaneously.

To display ACL Binding page, click **ACL > ACL Binding**.

	4
Entry Port MACACL IPv4 ACL	
1 GE1	
2 GE2	
3 GE3	
4 GE4	
6 GE5	
6 GE6	
7 GE7	
8 GE8	
9 9 669	
10 GE10	
11 GE11	
12 GE12	
13 GE13	
14 GE14	
15 GE15	
16 GE16	
17 GE17	
18 GE18	
19 GE19	
E 20 GE20	
21 GE21	
2 0622	
📄 23 GE23	
24 GE24	
25 XGE1	
28 XGE2	
27 XGE3	
28 XGE4	
29 LAG1	
30 L462	
🖸 31 LAG3	
2 32 LAG4	
3 LA05	
34 LAG8	
35 LA07	
38 LAG8	

ltem	Description
Port	Display port entry ID.
MAC ACL	Display mac ACL name that bound of interface. Empty means no rule bound.
IPv4 ACL	Display ipv4 ACL name that bound of interface. Empty means no rule bound.
IPv6 ACL	Display ipv6 ACL name that bound of interface. Empty means no rule bound.

Click "Edit" button to view the Edit ACL Binding menu.

Add ACL Binding

Dert	GE1
POIL	Note: ACL without any rules cannot be bound
MAC ACL	None 🔻
IPv4 ACL	None T
IPv6 ACL	None T
Apply	Close

ltem	Description
Port	Display port entry ID.
MAC ACL	Select mac ACL name from list to bind.
IPv4 ACL	Select IPv4 ACL name from list to bind.
IPv6 ACL	Select IPv6 ACL name from list to bind.

IV-12. QoS

Use the QoS pages to configure settings for the switch QoS interface.

IV-12-1. General

Use the QoS general pages to configure settings for general purpose.

IV-12-1-1. Property

To display Property web page, click **QoS > General > Property**.

			State	e 📃	Enable
					Endoto
					Cos
	. т	ruet I	Mod		
		lusti	NOU	-	ID Procedence
			_		
ſ	A	m la c	1		
	Ap	ріу			
			_		
_					<u>م</u>
Entry	Port	CoS Trust	Rei	marking	
			CoS	IP Precedence	
1	GE1	0 Enabled	Disabled	Disabled	
	GE3	0 Enabled	Disabled	Disabled	
4	GE4	0 Enabled	Disabled	Disabled	
5	GE5	0 Enabled	Disabled	Disabled	
6	GE6	0 Enabled	Disabled	Disabled	
7	GE7	0 Enabled	Disabled	Disabled	
8	GE8	0 Enabled	Disabled	Disabled	
9	GE9	0 Enabled	Disabled	Disabled	
10	GE10	0 Enabled	Disabled	Disabled	
12	GE12	0 Enabled	Disabled	Disabled	
13	GE13	0 Enabled	Disabled	Disabled	
14	GE14	0 Enabled	Disabled	Disabled	
15	GE15	0 Enabled	Disabled	Disabled	
10	GE16	0 Enabled	Disabled	Disabled	
17	GE17	0 Enabled	Disabled	Disabled	
19	GE18 GE19	0 Enabled	Disabled	Disabled	
20	GE20	0 Enabled	Disabled	Disabled	
21	GE21	0 Enabled	Disabled	Disabled	
22	GE22	0 Enabled	Disabled	Disabled	
23	GE23	0 Enabled	Disabled	Disabled	
24	GE24	0 Enabled	Disabled	Disabled	
25	XGE1	0 Enabled	Disabled	Disabled	
20	XGE2	0 Enabled	Disabled	Disabled	
28	XGE4	0 Enabled	Disabled	Disabled	
29	LAG1	0 Enabled	Disabled	Disabled	
30	LAG2	0 Enabled	Disabled	Disabled	
31	LAG3	0 Enabled	Disabled	Disabled	
32	LAG4	0 Enabled	Disabled	Disabled	
33	LAGS	0 Enabled	Disabled	Disabled	
35	LAG7	0 Enabled	Disabled	Disabled	
30	LAGS	0 Enabled	Disabled	Disabled	
C -214	1				
Edit	1				

ltem	Description		
State	Set checkbox to enable/disable QoS.		
	Select QoS trust mode		
	• CoS: Traffic is mapped to queues based on the CoS field in the		
Trust	VLAN tag, or based on the per-port default CoS value (if there		
	is no VLAN tag on the incoming packet), the actual mapping of		
	the CoS to queue can be configured on port setting dialog.		

	 CoS-DSCP: Uses the trust CoS mode for non-IP traffic and trust DSCP mode for IP traffic. IP Precedence: Traffic is mapped to queues based on the IP precedence. The actual mapping of the IP precedence to queue can be configured on the IP Precedence mapping page.
Port Setting Tabl	e
Port	Port name
CoS	Port default CoS priority value for the selected ports.
Trust	 Port trust state Enabled: Traffic will follow trust mode in global setting Disabled: Traffic will always use best efforts
Remarking (CoS)	 Set checkbox to enable/disable port CoS remarking. Enabled: CoS remarking is enabled Disabled: CoS remarking is disabled
Remarking (IP Precedence)	 Set checkbox to enable/disable port IP Precedence remarking. Enabled: DSCP remarking is enabled Disabled: DSCP remarking is disabled

Click "Edit" button to view the Edit Port Setting menu.

Edit	Port	Setting	

Port	GE1
CoS	0 (0 - 7)
Trust	Enable
Remarking	
CoS	Enable
DSCP	Enable
IP Precedence	Enable
Apply C	lose

Item	Description
Port	Selected port list.
CoS	Set default CoS/802.1p priority value for the selected ports.
Trust	Set checkbox to enable/disable port trust state.
Remarking (CoS)	Set checkbox to enable/disable port CoS remarking.
Remarking (IP Precedence)	Set checkbox to enable/disable port IP Precedence remarking.

IV-12-1-2. Queue Scheduling

The switch supports eight queues for each interface. Queue number 8 is the highest priority queue.

Queue number 1 is the lowest priority queue. There are two ways of determining how traffic in queues is handled, Strict Priority (SP) and Weighted Round Robin (WRR).

• Strict Priority (SP)—Egress traffic from the highest priority queue is transmitted first. Traffic from the lower queues is processed only after the highest queue has been transmitted, which provide the highest level of priority of traffic to the highest numbered queue.

• Weighted Round Robin (WRR)—In WRR mode the number of packets sent from the queue is proportional to the weight of the queue (the higher the weight, the more frames are sent).

The queuing modes can be selected on the Queue page.When the queuing mode is by Strict Priority, the priority sets the order in which queues are serviced, starting with queue_8 (the highest priority queue) and going to the next lower queue when each queue is completed.

When the queuing mode is Weighted Round Robin, queues are serviced until their quota has been used up and then another queue is serviced. It is also possible to assign some of the lower queues to WRR, while keeping some of the higher queues in Strict Priority. In this case traffic for the SP queues is always sent before traffic from the WRR queues. After the SP queues have been emptied, traffic from the WRR queues is forwarded. (The relative portion from each WRR queue depends on its weight).

To display Queue Scheduling web page, click QoS > General > Queue Scheduling

0			Method	
Queue	Strict Priority	WRR	Weight	WRR Bandwidth (%)
1	۲	0	1	
2	۲	\odot	2	
3	۲	\odot	3	
4	۲	\odot	4	
5	۲	\odot	5	
6	۲	\odot	9	
7	۲	\odot	13	
8	۲	\odot	15	

Queue Scheduling Table

Item Description		
Queue ID to configure.		
Strict Priority	Set queue to strict priority type.	
WRR	Set queue to Weight round robin type.	
Weight	If the queue type is WRR, set the queue weight for the queue.	
WRR	Dercentage of M/RR guesse handwidth	
Bandwidth		

IV-12-1-3. CoS Mapping

The CoS to Queue table determines the egress queues of the incoming packets based on the 802.1p priority in their VLAN tags. For incoming untagged packets, the 802.1p priority will be the default CoS/802.1p priority assigned to the ingress ports. Use the Queues to CoS table to remark the CoS/802.1p priority for egress traffic from each queue.

To display CoS Mapping web page, click **QoS > General > CoS Mapping**.

CoS to Queue Mapping

CoS	Queue
0	2 🔻
1	1 •
2	3 🔻
3	4 🔻
4	5 🔻
5	6 🔻
6	7 🔻
7	8 🔻
A	pply

Queue to CoS Mapping

Queue	CoS
1	1 🔻
2	0 🔻
3	2 🔻
4	3 ▼
5	4 ▼
6	5 🔻
7	6 🔻
8	7 🔻
Appl	v)

Item	Description			
CoS to Queue Mapping				
CoS	CoS value.			
Queue	Select queue id for the CoS value.			
Queue to CoS Mapping				
Queue	Queue ID			
CoS	Select CoS value for the queue id.			

IV-12-1-4. DSCP Mapping

DSCP to Queue Mapping

DSCP	Queue	DSCP	Queue	DSCP	Queue	DSCP	Queue
0 [CS0]	1 🗸	16 [CS2]	3 🗸	32 [CS4]	5 🗸	48 [CS6]	7 🗸
1	1 🗸	17	3 🗸	33	5 ~	49	7 ~
2	1 🗸	18 [AF21]	3 🗸	34 [AF41]	5 🗸	50	7 🗸
3	1 🗸	19	3 🗸	35	5 🗸	51	7 🗸
4	1 🗸	20 [AF22]	3 🗸	36 [AF42]	5 🗸	52	7 ~
5	1 🗸	21	3 🗸	37	5 🗸	53	7 🗸
6	1 🗸	22 [AF23]	3 🗸	38 [AF43]	5 🗸	54	7 🗸
7	1 🗸	23	3 🗸	39	5 🗸	55	7 🗸
8 [CS1]	2 🗸	24 [CS3]	4 ~	40 [CS5]	6 🗸	56 [CS7]	8 🗸
9	2 🗸	25	4 ~	41	6 🗸	57	8 ~
10 [AF11]	2 🗸	26 [AF31]	4 ~	42	6 🗸	58	8 ~
11	2 🗸	27	4 🗸	43	6 🗸	59	8 🗸
12 [AF12]	2 🗸	28 [AF32]	4 ~	44	6 🗸	60	8 🗸
13	2 🗸	29	4 🗸	45	6 🗸	61	8 🗸
14 [AF13]	2 🗸	30 [AF33]	4 ~	46 [EF]	6 🗸	62	8 🗸
15	2 🗸	31	4 🗸	47	6 ~	63	8 🗸

Apply

IV-12-1-5. IP Precedence Mapping

This page allow user to configure IP Precedence to Queue mapping and Queue to IP Precedence mapping.

To display IP Precedence Mapping web page, click **QoS > General > IP Precedence Mapping**.

IP Precedence to Queue Mapping

IP Precedence	Queue		
0	1 🔻		
1	2 🔻		
2	3 🔻		
3	4 ▼		
4	5 🔻		
5	6 🔻		
6	7 🔻		
7	8 🔻		
Apply			

Queue to IP Precedence Mapping

Queue IP	Precedence
1 0	
2 1	
3 2	2 🔻
4 3	3 🔻
5 4	4 🔻
6 5	5 🔻
7 6	3 T
8 7	
Apply	

Item	Description				
IP Precedence to Queue Mapping					
IP Precedence	IP Precedence value.				
Queue	Queue value which IP Precedence is mapped.				
Queue to IP Precedence Mapping					
Queue	Queue ID.				
IP Precedence	IP Precedence value which queue is mapped.				

IV-12-2. Rate Limit

Use the Rate Limit pages to define values that determine how much traffic the switch can receive and send on specific port or queue.

III-12-2-1. Ingress/Egress Port

This page allow user to configure ingress port rate limit and egress port rate limit. The ingress rate limit is the number of bits per second that can be received from the ingress interface. Excess bandwidth above this limit is discarded.

To display Ingress / Egress Port web page, click **QoS > Rate Limit > Ingress / Egress Port**.

_	Enter	Deat	In	gress	Eg	ress
	Entry	Port	State	Rate (Kbps)	State	Rate (Kbps)
	1	GE1	Enabled	10000	Enabled	10000
	2	GE2	Disabled		Disabled	
	3	GE3	Disabled		Disabled	
	4	GE4	Disabled		Disabled	
	5	GE5	Disabled		Disabled	
	6	GE6	Disabled		Disabled	
	7	GE7	Disabled		Disabled	
	8	GE8	Disabled		Disabled	
	9	GE9	Disabled		Disabled	
	10	GE10	Disabled		Disabled	
	11	GE11	Disabled		Disabled	
	12	GE12	Disabled		Disabled	
	13	GE13	Disabled		Disabled	
	14	GE14	Disabled		Disabled	
	15	GE15	Disabled		Disabled	
	16	GE16	Disabled		Disabled	
	17	GE17	Disabled		Disabled	
	18	GE18	Disabled		Disabled	
	19	GE19	Disabled		Disabled	
	20	GE20	Disabled		Disabled	
	21	GE21	Disabled		Disabled	
	22	GE22	Disabled		Disabled	
	23	GE23	Disabled		Disabled	
	24	GE24	Disabled		Disabled	
	25	XGE1	Disabled		Disabled	
	26	XGE2	Disabled		Disabled	
	27	XGE3	Disabled		Disabled	
	28	XGE4	Disabled		Disabled	

Edit

Item	Description
Port	Port name.
	Port ingress rate limit state
Ingress (State)	 Enabled: Ingress rate limit is enabled
	 Disabled: Ingress rate limit is disabled
Ingress (Rate)	Port ingress rate limit value if ingress rate state is enabled.
IP Precedence	IP Precedence value which queue is mapped.
	Port egress rate limit state
Egress (State)	 Enabled: Egress rate limit is enabled
	 Disabled: Egress rate limit is disabled
Egress (Rate)	Port egress rate limit value if egress rate state is enabled.

Click "Edit" button to view the Ingress / Egress Port menu.

Edit Ingress / Egress Port

Port	GE1	
Ingress	Enable	
	1000000	Kbps (16 - 1000000)
Egress	Enable	
	1000000	Kbps (16 - 1000000)

ltem	Description
Port	Select port list.
Ingross	Set checkbox to enable/disable ingress rate limit. If ingress rate
Ingress	limit is enabled, rate limit value need to be assigned.
Faracc	Set checkbox to enable/disable egress rate limit. If egress rate
Egress	limit is enabled, rate limit value need to be assigned.

IV-13. Diagnostics

Use the Diagnostics pages to configure settings for the switch diagnostics feature or operating diagnostic utilities.

IV-13-1. Logging

IV-13-1-1. Property

To enable/disable the logging service, click **Diagnostic > Logging > Property**.

State	Enable
Console Log	jging
State	Enable
Minimum	Notice
Severity	Note: Emergency, Alert, Critical, Error, Warning, Notice
KAW LOUGH	
State	Notice
Minimum Severity	Note: Emergeney Alert Critical Error Warning Nation
[]]	Note. Emergency, Alert, Chucal, Enor, Warning, Notice
Flash Loggi	ng
State	Enable
Minimum	Notice v
Severity	Note: Emergency, Alert, Critical, Error, Warning, Notice

Apply

ltem	Description				
State	Enable/Disable the global logging services. When the logging service is enabled, logging configuration of each destination rule can be individually configured. If the logging service is disabled, no messages will be sent to these destinations.				
Console Logging					
State	Enable/Disable the console logging service				
Minimum Severity	The minimum severity for the console logging.				
RAM Logging					
State	Enable/Disable the RAM logging service.				
Minimum Severity	The minimum severity for the RAM logging.				
Flash Logging					
State	Enable/Disable the flash logging service.				
Minimum Severity	The minimum severity for the flash loggin.				
IV-13-1-2. Remote Server

To configure the remote logging server, click **Diagnostic > Logging > Remote Server**.

Remote Server Table



ltem	Description		
Server Address	The IP address of the remote logging server.		
Server Ports	The port number of the remote logging server.		
	The facility of the logging messages. It can be one of the		
Facility	following values: local0, local1, local2, local3, local4, local5,		
	local6, and local7.		
	 Emergence: System is not usable. 		
	 Alert: Immediate action is needed. 		
	 Critical: System is in the critical condition. 		
Minimum	 Error: System is in error condition 		
Sovority	 Warning: System warning has occurred 		
Sevency	 Notice: System is functioning properly, but a system notice 		
	has occurred.		
	 Informational: Device information. 		
	 Debug: Provides detailed information about an event. 		

IV-13-2. Mirroring

To display Port Mirroring web page, click **Diagnostics > Mirroring**.

						Q
	Session ID	State	Monitor Port	Ingress Port	Egress Port	
\odot	1	Disabled				
\odot	2	Disabled				
\odot	3	Disabled				
\odot	4	Disabled				
	Edit					

"*" Allow the monitor port to send or receive normal packets

Item	Description	
Session ID	Select mirror session ID.	
	Select mirror session state : port-base mirror or disable	
State	 Enabled: Enable port based mirror 	
	 Disabled: Disable mirror. 	
Manitan Dant	Select mirror session monitor port, and select whether normal	
	packet could be sent or received by monitor port.	
Ingress port Select mirror session source rx ports.		
Egress port	Select mirror session source tx ports.	

Click "Edit" button to view the Edit Mirroring menu.

Edit Mirroring	
Session ID	1
State	Enable
Monitor Port	GE1 ▼ Send or Receive Normal Packet
Ingress Port	Available Port Selected Port GE1 Selected Port GE2 Selected Port GE3 Selected Port GE4 Selected Port GE5 Selected Port GE6 Selected Port GE7 Selected Port GE8 Selected Port
Egress Port	Available Port Selected Port GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8
Apply	Close

ltem	Description	
Session ID	Selected mirror session ID.	
	Select mirror session state : port-base mirror or disable	
State	 Enabled: Enable port based mirror 	
	 Disabled: Disable mirror. 	
	Select mirror session monitor port, and select whether normal	
	packet could be sent or received by monitor port.	
Ingress port Select mirror session source rx ports.		
Egress port	Select mirror session source tx ports.	

IV-13-3. Ping

For the ping functionality, click **Diagnostic > Ping**.

Address Type	 Hostname IPv4 IPv6 	
Server Address]
0	User Defined	
Count	4	Sec (1 - 65535)
Ping St	top	

Ping Result

Packet Status	
Status	N/A
Transmit Packet	0
Receive Packet	0
Packet Lost	0%
Round Trip Time	
Min	0.0 ms
Max	0.0 ms
Average	0.0 ms

ltem	Description	
Address Type	Specify the address type to "Hostname" or "IPv4".	
Server	Charify the Hestneme /IDv4 address for the remote legging conver	
Address	specify the Hosthame/1994 address for the remote logging server.	
Count	Specify the numbers of each ICMP ping request.	

IV-13-4. Traceroute

For trace route functionality, click **Diagnostic > Traceroute**.

Ad	dress Type	 Hostname IPv4 	
Serv	er Address]
т	ime to Live	User Defined	(2) 255 defeuth 20)
L		bu	(2 - 255, default 50)
Apply	St	top	

Traceroute Result



Item	Description	
Address Type	Specify the address type to "Hostname" or "IPv4".	
Server Address	Specify the Hostname/IPv4 address for the remote logging	
	server.	
Time to Live	Specify the max hops of hosts for traceroute.	

IV-13-5. Copper Test

For copper length diagnostic, click **Diagnostic > Copper Test**.

Port GE1 V]
Copper Test	

Copper Test Result

Cable State	IS
Port	N/A
Result	N/A
Length	N/A

ltem	Description		
Port Specify the interface for the copper test.			
Copper Test Result			
Port The interface for the copper test.			
	The status of copper test. It include:		
	 OK: Correctly terminated pair. 		
Pocult	 Short Cable: Shorted pair. 		
Result	 Open Cable: Open pair, no link partner. 		
	 Impedance Mismatch: Terminating impedance is not in the 		
	reference range.		
Longth	Distance in meter from the port to the location on the cable		
	where the fault was discovered.		

IV-13-6. Fiber Module

The Optical Module Status page displays the operational information reported by the Small Form-factor Pluggable (SFP) transceiver. Some information may not be available for SFPs without the supports of digital diagnostic monitoring standard SFF-8472.

To display the Optical Module Diagnostic page, click **Diagnostic > Fiber Module**.

Fibe	Fiber Module Table							
							Q	
	Port	Temperature (C)	Voltage (V)	Current (mA)	Output Power (mW)	Input Power (mW)	OE Present	Loss of Signal
0	GE25	N/A	N/A	N/A	N/A	N/A	Remove	Loss
\odot	GE26	N/A	N/A	N/A	N/A	N/A	Remove	Loss
\odot	GE27	N/A	N/A	N/A	N/A	N/A	Remove	Loss
\odot	GE28	N/A	N/A	N/A	N/A	N/A	Remove	Loss

Refresh Detail

Item	Description	
Port	Interface or port number.	
Temperature	Internally measured transceiver temperature.	
Voltage	Internally measured supply voltage.	
Current	Measured TX bias current.	
Output Power	Measured TX output power in milliwatts.	
Input Power	Measured RX received power in milliwatts.	
Transmitter Fault	State of TX fault.	
OE Present	Indicate transceiver has achieved power up and data is ready.	
Loss of Signal	Loss of signal.	
Refresh	Refresh the page.	
Detail	The detail information on the specified port.	

Click "Detail" button to view the Fiber Module Status menu.

Fiber Module Status

Port	GE25
OE Present	N/A
Loss of Signal	N/A
Transceiver Type	N/A
Connector Type	N/A
Ethernet Compliance Code	N/A
Transmission Media	N/A
Wavelength	N/A
Bitrate	N/A
Vendor OUI	N/A
Vendor Name	N/A
Vendor PN	N/A
Vendor Revision	N/A
Vendor SN	N/A
Date Code	N/A
Temperature (C)	N/A
Voltage (V)	N/A
Current (mA)	N/A
Output Power (mW)	N/A
Input Power (mW)	N/A
L	

Refresh

Close

IV-13-7. UDLD

Use the UDLD pages to configure settings of UDLD function.

IV-13-7-1. Property

This page allow user to configure global and per interface settings of UDLD.

To display Property page, click **Diagnostics > UDLD > Property**.

		N	lessa	ige Time	15		Sec (1 - 90, default 15)
		Ap	ply				
							Q
	intry	Port	Mode	Bidirectional State	Operational Status	Neighbor	
	1	GE1	Disabled	Unknown		0	
	2	GE2	Disabled	Unknown		0	
	3	GE3	Disabled	Unknown		0	
	4	GE4	Disabled	Unknown		0	
	6	GES	Disabled	Unknown		0	
E	7	GE7	Disabled	Unknown		0	
	8	GE8	Disabled	Unknown		0	
	9	GE9	Disabled	Unknown		0	
	10	GE10	Disabled	Unknown		0	
	11	GE11	Disabled	Unknown		0	
	12	GE12	Disabled	Unknown		0	
	13	GE13	Disabled	Unknown		0	
	14	GE14	Disabled	Unknown		0	
	15	GE15	Disabled	Unknown		0	
	16	GE16	Disabled	Unknown		0	
	17	GE17	Disabled	Unknown		0	
	18	GE18	Disabled	Unknown	the test starter	0	
	19	GE19	Normal	Unknown	Link down	0	
	20	CE21	Disabled	Unknown	Link down	0	
	21	GE21	Disabled	Unknown		0	
	23	GE23	Disabled	Unknown		0	
	24	GE24	Disabled	Unknown		0	
	25	XGE1	Disabled	Unknown		0	
	26	XGE2	Disabled	Unknown		0	
	27	XGE3	Disabled	Unknown		0	
	28	XGE4	Disabled	Unknown		0	

Edit

ltem	Description	
Message Time	Input the interval for sending message. Range is 1 -90 seconds.	
Port	Display port ID of entry.	
Mode	Display UDLD running mode of interface.	
Bidirectional	Display bidirectional state of interface.	
State		
Operational	Display operational status of interface	
Status		
Neighbor	Display the number of neighbor of interface.	

Click "Edit" button to view the Fiber Module Status menu.

Edit Port Setting

Port	GE1
Mode	 Disabled Normal Aggressive
Apply	Close

Item	Description		
Port	Display selected port to be edited.		
	Select UDLD running mode of interface.		
	 Disabled: Disable UDLD function. 		
Mada	 Normal: Running on normal mode that port goes to Link Up 		
WOUE	One phase after last neighbor ages out.		
	 Aggressive: Running on aggressive mode that port goes to 		
	Re-Establish phase after last neighbor ages out.		

IV-13-7-2. Neighbor

To display Neighbor page, click **Diagnostics > UDLD > Neighbor**.

Neighbor Table

Entry Expiration Current Neighbor State Device ID Device ID	evice Name Port ID Message Timeout Interval Interval					
0 results found.						

Refresh

Item	Description	
Entry	Display entry index.	
Expiration Time	Display expiration time before age out.	
Current Neighbor State	Display neighbor current state.	
Device ID	Display neighbor device ID.	
Device Name	Display neighbor device name.	
Port ID	Display neighbor port ID that connected.	
Message Interval	Display neighbor message interval.	
Timeout Interval	Display neighbor timeout interval.	

IV-14. Management

Use the Management pages to configure settings for the switch management features.

IV-14-1. User Account

The default username/password is admin/admin. And default account is not able to be deleted.

Use this page to add additional users that are permitted to manage the switch or to change the passwords of existing users.

To display User Account web page, click **Management > User Account**.

User Account		
Showing All entries	Showing 1 to 1 of 1 entries	Q
Username Privile	ge	
admin Admin		
Add Edit	Delete	First Previous 1 Next Last

ltem	Description		
Username	User name of the account.		
Privilege	 Select privilege level for new account. Admin: Allow to change switch settings. Privilege value equals to 15. User: See switch settings only. Not allow to change it. Privilege level equals to 1. 		

Click "Add" or "Edit" button to view the Add/Edit User Account menu.

Add User Account

Username	
Password	
Confirm Password	
Privilege	 Admin User
Apply Close	

Edit User Account

Username	admin
Password	
Confirm Password	
Privilege	 Admin User
Apply Close	

Item	Description
Username	User name of the account.
Password	Set password of the account.
Confirm	Sat the same password of the account as in "Password" field
Password	Set the same password of the account as in Password field.
	Select privilege level for new account.
	 Admin: Allow to change switch settings. Privilege value
Privilege	equals to 15.
	 User: See switch settings only. Not allow to change it.
	Privilege level equals to 1.

IV-14-2. Fireware

IV-14-2-1. Upgrade / Backup

This page allow user to upgrade or backup firmware image through HTTP or TFTP server.

To display firmware upgrade or backup web page, click **Management > Firmware > Upgrade/Backup**.

Action	 Upgrade Backup
Method	○ TFTP● HTTP
Filename	Choose File No file chosen

Apply

Item	Description
	Firmware operations
Action	 Upgrade: Upgrade firmware from remote host to DUT.
	 Backup: Backup firmware image from DUT to remote host.
	Firmware upgrade / backup method.
Method	 TFTP: Using TFTP to upgrade/backup firmware.
	 HTTP: Using WEB browser to upgrade/backup firmware.
Filonomo	Use browser to upgrade firmware, you should select firmware
riienaine	image file on your host PC.

To display firmware upgrade or backup web page, click **Management > Firmware > Upgrade/Backup**.

Active Image	 Image0 Image1 Note: the image was selected for the next boot
Active Image	
Firmware	Image1
Version	1.00.07
Name	Edimax_PG28CB_V1.00.07_r380_vmlinux_web.bix
Size	6417775 Bytes
Created	2017-11-21 14:54:59
Backup Image	
Firmware	ImageD
Version	1.00.06
Name	Edimax_PG28CB_V1.00.06_r373_vmlinux_web.bix
Size	6413996 Bytes
Created	2017-11-08 20:00:06

Apply

Item	Description
	Firmware operations
Action	 Upgrade: Upgrade firmware from remote host to DUT
	 Backup: Backup firmware image from DUT to remote host
	Firmware upgrade / backup method
Method	 TFTP: Using TFTP to upgrade/backup firmware.
	 HTTP: Using WEB browser to upgrade/backup firmware.
	Specify TFTP server address type
Addross Type	 Hostname: Use domain name as server address
Address Type	 IPv4: Use IPv4 as server address
	 IPv6: Use IPv6 as server address
Server	
Address	
Filename	Firmware image file name on remote TFTP server

To display firmware upgrade or backup web page, click **Management > Firmware >** Upgrade/Backup.

	Action	 Upgrade Backup
	Method	TFTP HTTP
Fi	rmware	 Image0 Image1

Apply

Item	Description
	Firmware operations
Action	 Upgrade: Upgrade firmware from remote host to DUT
	 Backup: Backup firmware image from DUT to remote host
	Firmware upgrade / backup method
Method	 TFTP: Using TFTP to upgrade/backup firmware.
	 HTTP: Using WEB browser to upgrade/backup firmware.
	Firmware partition need to backup
Firmware	 Image0: Firmware image in flash partition 0
	 Image1: Firmware image in flash partition 1

To display the Firmware Upgrade/Backup web page, click **Management > Firmware > Upgrade/Backup**.

Action	 Upgrade Backup
Method	 ● TFTP ○ HTTP
Firmware	 Image0 Image1
Address Type	 Hostname IPv4 IPv6
Server Address	
Filename	
Apply	

Item	Description
	Firmware operations
Action	 Upgrade: Upgrade firmware from remote host to DUT
	 Backup: Backup firmware image from DUT to remote host
	Firmware upgrade / backup method
Method	 TFTP: Using TFTP to upgrade/backup firmware.
	 HTTP: Using WEB browser to upgrade/backup firmware.
	Firmware partition need to backup
Firmware	 Image0: Firmware image in flash partition 0.
	 Image1: Firmware image in flash partition 1.
	Specify TFTP server address type
Addross Typo	 Hostname: Use domain name as server address.
Audress Type	 IPv4: Use IPv4 as server address.
	 IPv6: Use IPv6 as server address.
Server Specify TETP conver address address	Specify TETR server address address
Address	
Filename	File name saved on remote TFTP server.

IV-14-2-2. Active Image

This page allow user to select firmware image on next booting and show firmware information on both flash partitions.

To display the Active Image web page, click **Management > Firmware > Active Image**.

Active Image	 Image0 Image1 Note: the image was selected for the next boot
Active Image	
Firmware	Image1
Version	1.00.07
Name	Edimax_PG28CB_V1.00.07_r380_vmlinux_web.bix
Size	6417775 Bytes
Created	2017-11-21 14:54:59
Backup Image	
Firmware	ImageD
Version	1.00.06
Name	Edimax_PG28CB_V1.00.06_r373_vmlinux_web.bix
Size	6413996 Bytes
Created	2017-11-08 20:00:06

Apply

ltem	Description		
Active Image	Select firmware image to use on next booting		
Firmware	Firmware flash partition name.		
Version	Firmware version.		
Name	Firmware name.		
Size	Firmware image size.		
Created	Firmware image created date.		

IV-14-3. Configuration

IV-14-3-1. Upgrade / Backup

This page allow user to upgrade or backup configuration file through HTTP or TFTP server.

To display firmware upgrade or backup web page, click **Management > Configuration > Upgrade/Backup**.

Action	 Upgrade Backup
Method	○ TFTP● HTTP
Configuration	 Running Configuration Startup Configuration Backup Configuration RAM Log Flash Log
Filename	Choose File No file chosen

Apply

ltem	Description				
	Configuration operations				
Action	 Upgrade: Upgrade firmware from remote host to DUT 				
	 Backup: Backup firmware image from DUT to remote host 				
	Configuration upgrade / backup method				
Method	 TFTP: Using TFTP to upgrade/backup firmware 				
	 HTTP: Using WEB browser to upgrade/backup firmware 				
	Configuration types				
	 Running Configuration: Merge to current running 				
Configuration	configuration file				
	 Startup Configuration: Replace startup configuration file 				
	 Backup Configuration: Replace backup configuration file 				
Filonamo	Use browser to upgrade configuration, you should select				
	configuration file on your host PC.				

To display firmware upgrade or backup web page, click **Management > Configuration > Upgrade/Backup**.

Action	 Upgrade Backup
Method	 ● TFTP ○ HTTP
Configuration	 Running Configuration Startup Configuration Backup Configuration RAM Log Flash Log
Address Type	 ● Hostname ○ IPv4 ○ IPv6
Server Address	
Filename	
Apply	

ltem	Description				
	Configuration operations				
Action	 Upgrade: Upgrade firmware from remote host to DUT 				
	 Backup: Backup firmware image from DUT to remote host 				
	Configuration upgrade / backup method				
Method	 TFTP: Using TFTP to upgrade/backup firmware 				
	 HTTP: Using WEB browser to upgrade/backup firmware 				
	Configuration types				
	 Running Configuration: Merge to current running 				
Configuration	configuration file				
	 Startup Configuration: Replace startup configuration file 				
	 Backup Configuration: Replace backup configuration file 				
	Specify TFTP server address type				
Addross Tupo	 Hostname: Use domain name as server address 				
Address Type	 IPv4: Use IPv4 as server address 				
	 IPv6: Use IPv6 as server address 				
Server Address	Specify TFTP server address address				
Filename	File name saved on remote TFTP server				

To display firmware upgrade or backup web page, click **Management > Configuration > Upgrade/Backup**.

Action	 Upgrade Backup
Method	○ TFTP● HTTP
Configuration	 Running Configuration Startup Configuration Backup Configuration RAM Log Flash Log

Apply

Item	Description					
	Configuration operations					
Action	 Upgrade: Upgrade firmware from remote host to DUT 					
	 Backup: Backup firmware image from DUT to remote host 					
Method	Configuration upgrade / backup method					
	 TFTP: Using TFTP to upgrade/backup firmware 					
	 HTTP: Using WEB browser to upgrade/backup firmware 					
	Configuration types					
	 Running Configuration: Backup running configuration file. 					
Configuration	 Startup Configuration: Backup start configuration file. 					
Configuration	 Backup Configuration: Backup backup configuration file. 					
	 RAM Log: Backup log file stored in RAM. 					
	 Flash Log: Backup log files store in Flash. 					

To display firmware upgrade or backup web page, click **Management > Configuration > Upgrade/Backup**

Action	● Upgrade ● Backup
Method	 ● TFTP ○ HTTP
Configuration	 Running Configuration Startup Configuration Backup Configuration RAM Log Flash Log
Address Type	 ● Hostname ○ IPv4 ○ IPv6
Server Address	
Filename	

Apply

Item	Description			
	Configuration operations			
Action	 Upgrade: Upgrade firmware from remote host to DUT 			
	 Backup: Backup firmware image from DUT to remote host 			
	Configuration upgrade / backup method			
Method	 TFTP: Using TFTP to upgrade/backup firmware 			
	 HTTP: Using WEB browser to upgrade/backup firmware 			
	Configuration types			
	 Running Configuration: Backup running configuration file. 			
Configuration	 Startup Configuration: Backup start configuration file. 			
Configuration	 Backup Configuration: Backup backup configuration file. 			
	 RAM Log: Backup log file stored in RAM. 			
	 Flash Log: Backup log files store in Flash. 			
	Specify TFTP server address type			
Addross Type	 Hostname: Use domain name as server address 			
Address Type	 IPv4: Use IPv4 as server address 			
	 IPv6: Use IPv6 as server address 			
Server Address	Specify TFTP server address address.			
Filename	File name saved on remote TFTP server.			

IV-14-3-2. Save Configuration

This page allow user to manage configuration file saved on DUT and click "**Restore Factory Default**" button to restore factory defaults.

To display the Save Configuration web page, click **Management > Configuration > Save Configuration**.

Source File	 Running Configuration Startup Configuration Backup Configuration
Destination File	 Startup Configuration Backup Configuration
Apply Resto	re Factory Default

Item	Description					
Source File	 Source file types Running Configuration: Copy running configuration file to destination. Startup Configuration: Copy startup configuration file to destination. Backup Configuration: Copy backup configuration file to destination 					
Destination File	 Destination file Startup Configuration: Save file as startup configuration. Backup Configuration: Save file as backup configuration. 					

IV-14-4. SNMP

IV-14-4-1. View

To configure and display the SNMP view table, click **Management > SNMP > View**.

View Table

Show	ing All	▼ entries		Showing 1 to 1 of 1 entries	Q	
	View	OID Subtree	Туре			
	all	.1	Included			
	Add	Delete			First Previous 1 Next	Last

ltem	Description			
View	The SNMP view name. Its maximum length is 30 characters			
OID Subtree	Specify the ASN.1 subtree object identifier (OID) to be included or excluded from the SNMP view			
Туре	Include or exclude the selected MIBs in the view			

IV-14-4-2. Group

To configure and display the SNMP group settings, click **Management > SNMP > Group**.

Group Table

Showing All entries S		howing 0 to 0 of 0 entries		0 entries	Q		
_	Crown	Version	Convrite Loval		View		
-	Group	version	Security Level	Read	Write	Notify	
	0 results found.						
	First Previous 1 Next Last						
Configure SNMP View to associate a non-default view with a group.							
	Add	Edit	Delete	;			

ltem	Description					
Group	Specify SNMP group name, and the maximum length is 30					
	characters.					
	Specify SNMP version					
Vorsion	 SNMPv1: SNMP Version 1. 					
VEISION	 SNMPv2: Community-based SNMP Version 2. 					
	 SNMPv3: User security model SNMP version 3. 					
	Specify SNMP security level					
	 No Security: Specify that no packet authentication is 					
Security Level	performed.					
	 Authentication: Specify that no packet authentication 					
	without encryption is performed.					

	 Authentication and Privacy: Specify that no packet authentication with encryption is performed. 			
View				
Read	Group read view name.			
Write	Group write view name.			
Notify	The view name that sends only traps with contents that is included in SNMP view selected for notification.			

Click "**Add**" or "**Edit**" button to view the Add/Edit Group menu.

Add Group

Group	
Version	 SNMPv1 SNMPv2 SNMPv3
Security Level	 No Security Authentication Authentication and Privacy
View	 Read all Write all Notify all
Apply C	lose

Edit Group

Group	1
Version	SNMPv1 SNMPv2 SNMPv3
Security Level	 No Security Authentication Authentication and Privacy
View	 ✓ Read all ▼ Write all ▼ Notify all ▼
Apply	Close

ltem	Description			
Group	Specify SNMP group name, and the maximum length is 30			
Group	characters.			
	Specify SNMP version			
Version	 SNMPv1: SNMP Version 1. 			
	 SNMPv2: Community-based SNMP Version 2. 			

	 SNMPv3: User security model SNMP version 3. 				
Specify SNMP security level					
	 No Security: Specify that no packet authentication is performed. 				
Security Level	 Authentication: Specify that no packet authentication without encryption is performed. 				
	 Authentication and Privacy: Specify that no packet 				
	authentication with encryption is performed.				
View					
Read	Select read view name if Read is checked.				
Write	Select write view name, if Write is checked.				
Notify	Select notify view name, if Notify is checked.				

IV-14-4-3. Community

To configure and display the SNMP community settings, click **Management > SNMP > Community**.

Community Table

Show	ring <mark>All ▼</mark> er	tries		Showing '	1 to 1 of 1 entries		Q
	Community	Group	View	Access			
	public		all	Read-Write			
						First	Previous 1 Next Last
The a Confi	The access right of a community is defined by a group under advanced mode. Configure SNMP Group to associate a group with a community.						
	Add	Edit		Delete			

Item	Description			
Community	The SNMP community name. Its maximum length is 20 characters.			
Group	Specify the SNMP group configured by the command snmp group			
Group	to define the object available to the community.			
View	Specify the SNMP view to define the object available to the			
view	community.			
	SNMP access mode			
Access	 Read-Only: Read only. 			
	 Read-Write: Read and write. 			

Click "Add" or "Edit" button to view the Add/Edit Community menu.

Add Community

Community			
Туре	 Basic Advanced 		
View	all 🔻		
Access	 Read-Only Read-Write 		
Group	1 🔻		
Apply Close			

Edit Community

Community	public			
Туре	 Basic Advanced 			
View	all ▼			
Access	 Read-Only Read-Write 			
Group	1 🔻			
Apply Close				

Item	Description		
Community	The SNMP community name. Its maximum length is 20 characters.		
	SNMP Community mode		
Туре	 Basic: SNMP community specifies view and access right. 		
	 Advanced: SNMP community specifies group. 		
View	Specify the SNMP view to define the object available to the		
view	community.		
	SNMP access mode		
Access	 Read-Only: Read only. 		
	 Read-Write: Read and write. 		
Group	Specify the SNMP group configured by the command snmp group		
Group	to define the object available to the community.		

IV-14-4-4. User

To configure and display the SNMP users, click **Management > SNMP > User**.

User Table

Showing All entries	Showing 0 to 0 of 0 entries	Q	
User Group Security Let	vel Authentication Method Privacy I	Method	
0 results found.			
Configure SNMP Group to associate an SNMPv3 group with an SNMPv3 user.			
Add Edit Delete			

ltem	Description		
llser	Specify the SNMP user name on the host that connects to the SNMP agent. The max character is 30 characters. For the SNMP v1		
	or v2c, the user name must match the community name.		
Group	Specify the SNMP group to which the SNMP user belongs.		
Security Level	 SNMP privilege mode No Security: Specify that no packet authentication is performed. Authentication: Specify that no packet authentication without encryption is performed. Authentication and Privacy: Specify that no packet authentication with encryption is performed. 		
Authentication Method	 Authentication Protocol which is available when Privilege Mode is Authentication or Authentication and Privacy. None: No authentication required. MD5: Specify the HMAC-MD5-96 authentication protocol. SHA: Specify the HMAC-SHA-96 authentication protocol 		
Privacy Method	 Encryption Protocol None: No privacy required. DES: DES algorithm 		

Click "Add" or "Edit" button to view Add/Edit User menu.

Add User

· · · · · · · · · · · · · · · · · · ·	
User	
Group	11 🔻
Security Level	 No Security Authentication Authentication and Privacy
Authentication	
Method	 None MD5 SHA
Password	
Privácy	None
Method	DES
Password	
Apply	ose
Edit User	
Edit User	
Edit User User	22
Edit User User Group	22 11 T
Edit User User Group Security Level	22 11 No Security Authentication Authentication and Privacy
Edit User User Group Security Level	22 11 ▼ No Security Authentication Authentication and Privacy
Edit User User Group Security Level Authentication Method	22 11 No Security Authentication Authentication and Privacy None MD5 SHA
Edit User User Group Security Level Authentication Method Password	22 11 • • No Security • Authentication • Authentication and Privacy • None • MD5 • SHA
Edit User User Group Security Level Authentication Method Password	22 11 No Security Authentication Authentication and Privacy None MD5 SHA
Edit User User Group Security Level Authentication Method Password Privacy Method	22 11 No Security Authentication Authentication and Privacy None MD5 SHA None DES
Edit User User Group Security Level Authentication Method Password Privacy Method	22 11 No Security Authentication Authentication and Privacy None MD5 SHA None DES
Edit User User Group Security Level Authentication Method Password Privacy Method Password	22 11 No Security Authentication Authentication and Privacy None MD5 SHA None DES

ltem	Description	
lleor	Specify the SNMP user name on the host that connects to the	
User SNMP agent. The max character is 30 characters.		
Group	Specify the SNMP group to which the SNMP user belongs.	
	SNMP privilege mode	
	 No Security: Specify that no packet authentication is performed. 	
Security Level	 Authentication: Specify that no packet authentication 	
	without encryption is performed.	
	 Authentication and Privacy: Specify that no packet 	
	authentication with encryption is performed.	
Authentication		
	Authentication Protocol which is available when Privilege Mode	
	is Authentication or Authentication and Privacy.	
Method	 None: No authentication required. 	
	 MD5: Specify the HMAC-MD5-96 authentication protocol. 	
	 SHA: Specify the HMAC-SHA-96 authentication protocol. 	
Dessword	The authentication password, The number of character range is 8	
Passworu	to 32 characters.	
Privacy		
	Encryption Protocol	
Method	 None: No privacy required. 	
	 DES: DES algorithm 	
Decoword	The privacy password, The number of character range is 8 to 64	
Password	characters.	

IV-14-4-5. Engine ID

To configure and display SNMP local and remote engine ID, click **Management > SNMP > Engine ID**.

Engine ID 80006a920374da38176e7 (10 - 64 Hexadecimal Characters)	Local Engine	ID
	Engine ID	User Defined 80006a920374da38176e7 (10 - 64 Hexadecimal Characters)

Apply

Remote Engine ID Table

Showing All entries	Showing 0 to 0 of 0 entries	Q
Server Address Engine ID		
	0 results found.	
Add Edit Delete		(First) (Previous) 1 (Next) (Last)

Item	Description	
Local Engine ID		
Engine ID	If checked "User Defined", the local engine ID is configure by user, else use the default Engine ID which is made up of MAC and Enterprise ID. The user defined engine ID is range 10 to 64 hexadecimal	
Remote Engine ID Table		
Table		
Server Address	Remote host.	
Engine ID	Specify Remote SNMP engine ID. The engine ID is range10 to 64 hexadecimal characters, and the hexadecimal number must be divided by 2.	

Click "Add" button to view Add Remote Engine ID menu.

Add Remote Engine	ID	
Address Type	 Hostname IPv4 IPv6 	
Server Address		
Engine ID		(10 - 64 Hexadecimal Characters)
Apply Clo	ose	

ltem	Description	
Address Type	Remote host address type for Hostname/IPv4/IPv6.	
Server Address	Remote host.	
Engine ID	Specify Remote SNMP engine ID. The engine ID is range10 to 64 hexadecimal characters, and the hexadecimal number must be divided by 2.	

Click "Edit" button to view Edit Remote Engine ID menu.

-	-		
Edit	Remote	e Engine	ID

Server Address	123.4.5.6	
Engine ID	12345abcde	(10 - 64 Hexadecimal Characters)
Apply Close		

ltem	Description	
Server Address	Edit Remote host address	
Engine ID	Specify Remote SNMP engine ID. The engine ID is range10 to 64 hexadecimal characters, and the hexadecimal number must be divided by 2.	

IV-14-4-6. Trap Event

To configure and display SNMP trap event, click **Management > SNMP > Trap Event**.

-----Authentication Failure Enable ----Link Up / Down Enable Enable Cold Start Enable Warm Start |

Apply

ltem	Description	
Authentication	SNMP authentication failure trap, when community not match or	
Failure	user authentication password not match.	
Link Up/Down	Port link up or down trap.	
Cold Start	Device reboot configure by user trap.	
Warm Start	Device reboot by power down trap.	

IV-14-4-7. Notification

To configure the hosts to receive SNMPv1/v2/v3 notification, click **Management > SNMP** > **Notification**.

Not	ification Table							
Shov	ving All 🔻 entries	5	Showing) 0 to 0 o	f 0 entries		Q	
	Server Address	Server Port	Timeout	Retry	Version	Туре	Community / User	Security Level
0 results found.								
First Previous 1 Next Last For SNMPv1,2 Notification, SNMP Community needs to be defined. For SNMPv3 Notification, SNMP User must be created. Add Edit Delete								

Item	Description
Server Address	IP address or the hostname of the SNMP trap recipients.
Server Port	Recipients server UDP port number.
Timeout	Specify the SNMP informs timeout.
Retry	Specify the retry counter of the SNMP informs.

	Specify SNMP notification version				
Version	 SNMPv1: SNMP Version 1 notification. 				
	 SNMPv2: SNMP Version 2 notification. 				
	 SNMPv3: SNMP Version 3 notification. 				
	Notification Type				
Туре	 Trap: Send SNMP traps to the host. 				
	 Inform: Send SNMP informs to the host. 				
Community/Ucor	SNMP community/user name for notification. If version is				
Community/User	SNMPv3 the name is user name, else is community name.				
UDP Port	Specify the UDP port number.				
Timeout	Specify the SNMP informs timeout.				
Security Level	SNMP trap packet security level				
	 No Security: Specify that no packet authentication is 				
	performed.				
	 Authentication: Specify that no packet authentication 				
	without encryption is performed.				
	 Authentication and Privacy: Specify that no packet 				
	authentication with encryption is performed.				

Click "**Add**" button to view the Notification menu.

Add Notification

Address Type	 Hostname IPv4 IPv6 		
Server Address			
Version	 SNMPv1 SNMPv2 SNMPv3 		
Туре	● Trap ○ Inform		
Community / User	public 🔻		
Security Level	No Security Authentication Authentication and Privacy		
Server Port	Use Default 162	(1 - 65535, default 162)	
Timeout	Use Default 15	Sec (1 - 300, default 15)	
Retry	Use Default 3	(1 - 255, default 3)	
Apply Close	3		

ltem	Description			
Address Type	Notify recipients host address type.			
Server Address	IP address or the hostname of the SNMP trap recipients.			
	Specify SNMP notification version			
	 SNMPv1: SNMP Version 1 notification. 			
Version	 SNMPv2: SNMP Version 2 notification. 			
	 SNMPv3: SNMP Version 3 notification. 			
	Notification Type			
Tuno	 Trap: Send SNMP traps to the host. 			
туре	 Inform: Send SNMP informs to the host.(version 1 have no 			
	inform)			
Community/User	SNMP community/user name for notification. If version is			
	SNMPv3 the name is user name, else is community name.			
Security Level	SNMP notification packet security level, the security level must			
	less than or equal to the community/user name			
	 No Security: Specify that no packet authentication is 			
	performed.			
	 Authentication: Specify that no packet authentication 			

	 without encryption is performed. Authentication and Privacy: Specify that no packet authentication with encryption is performed.
Server Port	Recipients server UDP port number, if "use default" checked the value is 162, else user configure.
Timeout	Specify the SNMP informs timeout, if "use default" checked the value is 15, else user configure.
Retry	Specify the SNMP informs retry count, if "use default" checked the value is 3, else user configure.
Click "Edit" button to view the Edit Notification menu.

_ _ _ _ _ _ _ _ _

Edit Notification

Server Address	123.4.5.6	
Version	 SNMPv1 SNMPv2 SNMPv3 	
Туре	 Trap Inform 	
Community / User	public 🔻	
Security Level	 No Security Authentication Authentication and Principle 	vacy
Server Port	Use Default 162	(1 - 65535, default 162)
Timeout	Use Default 15	Sec (1 - 300, default 15)
Retry	Use Default 3	(1 - 255, default 3)
Apply Close		

ltem	Description	
Server Address	Edit SNMP notify recipients address	
	Specify SNMP notification version	
Vorsion	 SNMPv1: SNMP Version 1 notification. 	
VEISION	 SNMPv2: SNMP Version 2 notification. 	
	 SNMPv3: SNMP Version 3 notification. 	
	Notification Type	
Туре	 Trap: Send SNMP traps to the host. 	
Туре	 Inform: Send SNMP informs to the host.(version 1 have no 	
	inform)	
Community/User	SNMP community/user name for notification. If version is	
	SNMPv3 the name is user name, else is community name.	
	SNMP notification packet security level, the security level must	
	less than or equal to the community/user name	
Community	 No Security: Specify that no packet authentication is 	
	performed.	
	 Authentication: Specify that no packet authentication 	
	without encryption is performed.	
	 Authentication and Privacy: Specify that no packet 	

	authentication with encryption is performed.	
Server Port	Recipients server UDP port number, if "use default" checked	
Server Fort	the value is 162, else user configure.	
Timoout	Specify the SNMP informs timeout, if "use default" checked the	
Timeout	value is 15, else user configure.	
Detra	Specify the SNMP informs retry count, if "use default" checked	
Reliy	the value is 3, else user configure.	

IV-14-5. Time Range

This page shows the information of days, start time and end time of the time range.

Time Range			
			Q
Range Name	Days	Start Time	End Time
time-1	Mon, Tue, Wed, Thu, Fri, Sat, Sun	01:00	11:30
Add	Edit Delete		

To view the Time Range Edit page, please click the 'Edit" button.

Ti	me Range Edit	
	Range Name	time-1
	Date	Image: Mon Image: The Image
	Apply C	lose

V. More Information

For detailed instructions, you can find user manual and all supporting documents from the link below or via the QR code:

https://www.edimax.com/download/



Please search the model number to enter the referred page.

low-plood	
1/ 3/0// 3// 3// 3// 3// 3// 3// 3// 3//	
Downloau	

To select your product and find related download materials, enter			
he model number into the search box on the right side or follow the	Model no.	٩	
Feel free to contact us anytime if you need help or if you can't find	How do	How do I find the model number?	
/our product.			

VI. Safety Instructions

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product user instructions for more details.

- This product is designed for indoor use only.
- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e. touching grounded bare metal) before touching the product.
- The device contains no user serviceable parts. Do not attempt to service the product and never disassemble the product.
- Do not spill food or liquid on your product and never push any objects into the openings of your product.
- Do not use this product near water, areas with high humidity, or condensation.
- Keep the product away from radiators and other heat sources.
- This device is not designed to be operated by children.
- Always unplug the product from mains power before cleaning and use a dry lint free cloth only.



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The product you have purchased and the setup screen may appear slightly different from those shown in this QIG. The software and specifications are subject to change without notice. Please visit our website <u>www.edimax.com</u> for updates. All brand and product names mentioned in this manual are trademarks and/or registered trademarks of their respective holders.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

R&TTE Compliance Statement

This equipment complies with all the requirements of DIRECTIVE 2014/30/EU OF THE EUROPEAN PARLIAMENT AND THE COUNCIL of March 9, 1999 on radio equipment and telecommunication terminal equipment and the mutual recognition of their conformity (R&TTE). The R&TTE Directive repeals and replaces in the directive 98/13/EEC (Telecommunications Terminal Equipment and Satellite Earth Station Equipment) As of April 8, 2000.

Safety

This equipment is designed with the utmost care for the safety of those who install and use it. However, special attention must be paid to the dangers of electric shock and static electricity when working with electrical equipment. All guidelines of this and of the computer manufacture must therefore be allowed at all times to ensure the safe use of the equipment.

EU Countries Intended for Use

The ETSI version of this device is intended for home and office use in Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Turkey, and United Kingdom. The ETSI version of this device is also authorized for use in EFTA member states: Iceland, Liechtenstein, Norway, and Switzerland.

EU Countries Not Intended for Use

None

English: This equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/30/EU. Français: Cet équipement est conforme aux exigences essentielles et autres dispositions de la directive 2014/30/EU. Čeština: Toto zařízení je v souladu se základními požadavky a ostatními příslušnými ustanoveními směrnic 2014/30/EU. Polski: Urządzenie jest zgodne z ogólnymi wymaganiami oraz szczególnymi warunkami określonymi Dyrektywą UE 2014/30/EU. Română: Acest echipament este în conformitate cu cerințele esențiale și alte prevederi relevante ale Directivei 2014/30/EU. Это оборудование соответствует основным требованиям и положениям Директивы Русский: 2014/30/EU. Ez a berendezés megfelel az alapvető követelményeknek és más vonatkozó irányelveknek Magyar: (2014/30/EU). Türkçe: Bu cihaz 2014/30/EU. direktifleri zorunlu istekler ve diğer hükümlerle ile uyumludur. Українська: Обладнання відповідає вимогам і умовам директиви 2014/30/EU. Slovenčina: Toto zariadenie spĺňa základné požiadavky a ďalšie príslušné ustanovenia smerníc 2014/30/EU. Deutsch: Dieses Gerät erfüllt die Voraussetzungen gemäß den Richtlinien 2014/30/EU. Español: El presente equipo cumple los requisitos esenciales de la Directiva 2014/30/EU. Italiano: Questo apparecchio è conforme ai requisiti essenziali e alle altre disposizioni applicabili della Direttiva 2014/30/EU. Nederlands: Dit apparaat voldoet aan de essentiële eisen en andere van toepassing zijnde bepalingen van richtlijn 2014/30/EU. Este equipamento cumpre os requesitos essênciais da Directiva 2014/30/EU. Português: Norsk: Dette utstyret er i samsvar med de viktigste kravene og andre relevante regler i Direktiv 2014/30/EU. Svenska: Denna utrustning är i överensstämmelse med de väsentliga kraven och övriga relevanta bestämmelser i direktiv 2014/30/EU. Dette udstyr er i overensstemmelse med de væsentligste krav og andre relevante Dansk: forordninger i direktiv 2014/30/EU. suomen kieli: Tämä laite täyttää direktiivien 2014/30/EU. oleelliset vaatimukset ja muut asiaankuuluvat määräykset.





WEEE Directive & Product Disposal



At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European R&TTE directives.

Equipment: 54 Gigabit ports Web-Smart Switch with 6 SFP+ 10 Gigabit Model No.: GS-5654LX

The following European standards for essential requirements have been followed:

Directives 2014/30/EU

EMC

: EN 55032:2015+AC:2016 EN 61000-3-2:2014 N 61000-3-3:2013 EN 55035:2017

Directives 2014/35/EU

Safety (LVD) : IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017

Edimax Technology Europe B.V.
Fijenhof 2,
5652 AE Eindhoven,
The Netherlands
Date & Place of Issue: 30/Nov./2022, Eindhoven
Signature: Mark Hurry

Printed Name: David Huang Title: Director

a company of: Edimax Technology Co., Ltd. No. 278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan Date & Place of Issue: 30/Nov./2022, Taipei Signature:

Hotchon

Printed Name: Hunter Chen Title: Director

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We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the European R&TTE directives.

Equipment: 54 Gigabit PoE ports Web-Smart Switch with 6 SFP+ 10 Gigabit Model No.: GS-5654PLX V2

The following European standards for essential requirements have been followed:

Directives 2014/30/EU

EMC

: EN 55032:2015+A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN 55035:2017+A11:2020

Directives 2014/35/EU

: IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017 Safety (LVD)

Printed Name: David Huang Title: Director

CE

a company of: Edimax Technology Co., Ltd. No. 278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan Date & Place of Issue: 30/Nov./2022, Taipei Signature:

HX chon

Hunter Chen Printed Name: Title: Director

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We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the United Kingdom EMC and Safety directives.

Equipment: 54 Gigabit ports Web-Smart Switch with 6 SFP+ 10 Gigabit Model No.: GS-5654LX

The following European standards for essential requirements have been followed:

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

EMC

: EN 55032:2015+AC:2016 EN 61000-3-2:2014 EN 61000-3-3:2013 EN 55035:2017

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)

: IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017 Safety (LVD)

Edimax Technology Europe B.V. Fijenhof 2, 5652 AE Eindhoven. The Netherlands Date & Place of Issue: 30/Nov./2022, Eindhoven Signature:

Mont Huy

Printed Name: David Huang Title: Director

a company of: Edimax Technology Co., Ltd. No. 278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan Date & Place of Issue: 30/Nov./2022, Taipei Signature:

Hotchon

Printed Name: Hunter Chen Title: Director

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We, Edimax Technology Co., Ltd., declare under our sole responsibility, that the equipment described below complies with the requirements of the United Kingdom EMC and Safety directives.

Equipment: 54 Gigabit PoE ports Web-Smart Switch with 6 SFP+ 10 Gigabit Model No.: GS-5654PLX V2

The following European standards for essential requirements have been followed:

Electromagnetic Compatibility Regulations 2016 (S.I. 2016/1091)

EMC

: EN 55032:2015+A11:2020 EN IEC 61000-3-2:2019 EN 61000-3-3:2013+A1:2019 EN 55035:2017+A11:2020

Electrical Equipment (Safety) Regulations 2016 (S.I. 2016/1101)

: IEC 62368-1:2014 (2nd Edition) and/or EN 62368-1:2014+A11:2017 Safety (LVD)

Edimax Technology Europe B.V. Fijenhof 2, 5652 AE Eindhoven, The Netherlands Date & Place of Issue: 30/Nov./2022, Eindhoven Signature: Von LAng

Printed Name: David Huang Title: Director

UK CA

a company of: Edimax Technology Co., Ltd. No. 278, Xinhu 1st Rd., Neihu Dist., Taipei City, Taiwan Date & Place of Issue: 30/Nov./2022, Taipei Signature:

H.S. Chon

Printed Name: Hunter Chen Title: Director

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