24-PORT POE+ WEB-MANAGED GIGABIT ETHERNET SWITCH WITH 2 SFP PORTS USER MANUAL

MODEL 560559

INTELLINET
24-Port PoE+ Web-Managed Gigabit Ethernet Switch with 2 SFP Ports
Console
SFP2
SFP1

INTELLINET®
NETWORK SOLUTIONS

INT-560559-UM-0116-1

1 Table of Contents

2 Product Introduction

Congratulations on your purchase of the 24-Port PoE+ Web-Managed PoE+ Gigabit Ethernet Switch. Before you install and use this product, read this manual carefully for a full understanding of its functions.

2.1 Product Overview

The Web-Managed Gigabit Ethernet Switch provides a seamless network connection. It integrates 1000 Mbps Gigabit Ethernet, 100Mbps Fast Ethernet and 10Mbps Ethernet network capabilities in a highly flexible package. With 24 10/100/1000 Mbps Auto-Negotiation RJ45 ports, all ports support Auto MDI/MDIX function. The switch is a low-cost, easy-to-use, high-performance upgrade from your old network to a 1000 Mbps Gigabit network, essential in helping solve network bottlenecks that frequently develop as more advanced computer users and newer applications continue to demand greater network resources. For efficient management, the switch is equipped with a remote Web interface. The switch can be programmed for advanced switch management functions, such as Port Management, Link Aggregation, VLAN, Spanning Tree, Multicast, QoS, Security, Access Control, MAC Address Table, LLDP, Diagnostics, RMON and Maintenance. Its PoE ports can automatically detect and supply power to IEEE802.3at compliant Powered Devices (PD), such as Wireless Access Points, network cameras or Voice over IP phones.

2.2 Features

- Provides power and data connection for up to 24 PoE network devices
- Save installation cost by delivering data and power over existing network cables
- IEEE 802.3at/af-compliant RJ45 PoE/PoE+ output ports
- PoE power budget of 240 watts
- Power output up to 30 watts per port
- Supports IEEE 802.3at and IEEE 802.3af-compliant PoE devices (wireless access points, VoIP phones, IP cameras)
- Supports IEEE 802.3at/af detection and short circuit, overload and high-voltage protection
- Supports SNMP management
- Two small form-factor pluggable GBIC module slots (SFP)
- Supports VLAN (tag-based and port-based)
- Provides IEEE 802.1x port-based security
- Supports link aggregation (trunking)
- Supports port mirroring
- Supports jumbo frames up to 9 kBytes

- Supports Rapid Spanning Tree/Spanning Tree protocol
- Broadcast storm control with multicast packet rate settings
- Supports two types of QoS: port-based and DSCP
- LEDs for power, link/activity and PoE
- Includes 19" rackmount brackets

2.3 Specifications

Standards

- IEEE 802.1d (Spanning Tree Protocol)
- IEEE 802.1p (Traffic Prioritization)
- IEEE 802.1q (VLAN Tagging)
- IEEE 802.1w (Rapid Spanning Tree Protocol)
- IEEE 802.3 (10Base-T Ethernet)
- IEEE 802.3ab (Twisted Pair Gigabit Ethernet)
- IEEE 802.3ad (Link Aggregation Control Protocol LACP)
- IEEE 802.3af (Power over Ethernet 802.3at Type 1)
- IEEE 802.3at (Power over Ethernet 802.3at Type 2)
- IEEE 802.3u (100Base-TX Fast Ethernet)
- IEEE 802.3x (flow control, for full duplex mode)

Power

- Input: 90 – 260 V AC, 50 – 60 Hz
- Power consumption: 260 watts (maximum)

Environmental

- Metal housing
- Dimensions: 440 (W) x 220 (L) x 44 (H) mm (17.3 x 8.7 x 1.7 in.)
- Weight: 3.1 kg (6.8 lbs.)
- Operating temperature: 0 – 45°C (32 – 113°F)
- Operating humidity: 10 – 90% RH, non-condensing
- Storage temperature: -20 – 90°C (-4 – 194°F)

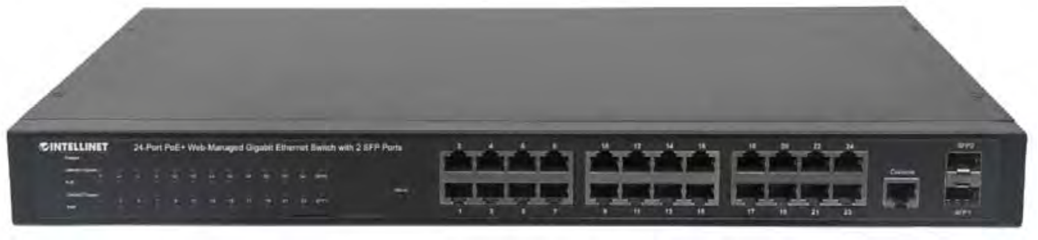
Package Contents

- 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports
- Power cable
- User manual

2.4 External Component Description

2.4.1 Front Panel

The front panel of the Switch consists of 24 x 10/100/1000 Mbps RJ-45 ports, 2 x SFP ports, 1 x Console port, 1 x Reset button and a series of LED indicators as shown as below.


INTELLINET
24-Port PoE+ Web-Managed Gigabit Ethernet Switch with 2 SFP Ports
Console
SFP2
SFP1

10/100/1000 Mbps RJ-45 ports (1~24):

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000 Mbps. Each has a corresponding 10/100/1000 Mbps LED.

SFP ports (SFP1, SFP2):

Designed to install the SFP module and connect to the device with a bandwidth of 1000 Mbps. Each has a corresponding 1000 Mbps LED.

Console port (Console):

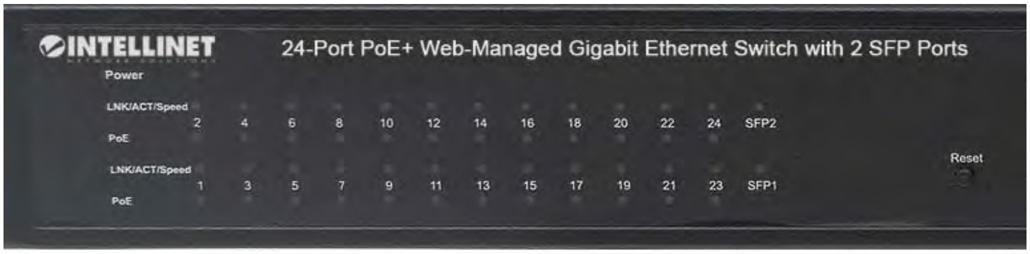
Designed to connect with the serial port of a computer or terminal for monitoring and configuring the Switch.

Reset button (Reset):

To restore the system factory default settings, press the reset button for 5 seconds while the device is powered on.

LED indicators:

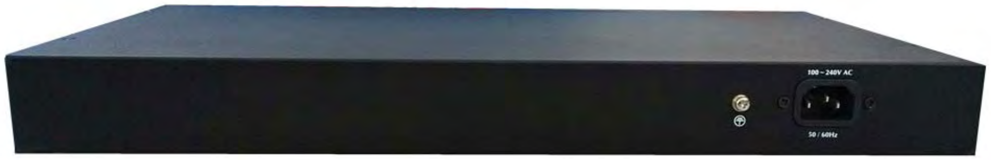
The LED Indicators will allow you to monitor, diagnose and troubleshoot any potential problem with the Switch, connection or attached devices.


INTELLINET
24-Port PoE+ Web-Managed Gigabit Ethernet Switch with 2 SFP Ports
Power
LNK/ACT/Speed
2 4 6 8 10 12 14 16 18 20 22 24 SFP2
PoE
LNK/ACT/Speed
1 3 5 7 9 11 13 15 17 19 21 23 SFP1
PoE
Reset

The following chart shows the LED indicators of the Switch along with explanation of each indicator.

LED	COLOR	STATUS	STATUS DESCRIPTION
Power	Red	On	Power On
		Off	Power Off
LINK/ACT/Speed (1~24)	10/100 Mbps: Amber	On	A device is connected to the port
	1000 Mbps: Green	Off	No device is connected to the port
		Flashing	Sending or receiving data
SFP1 SFP2	Green	On	A device is connected to the port
		Off	No device is connected to the port
		Flashing	Sending or receiving data
POE	Orange	On	An IEEE 802.3af/at compliant powered device (PD) is connected to the port, and the PoE Switch supplies power successfully.
		Off	No powered device is connected to the port.
		Flashing	There may be a short circuit or PoE power overload. Disconnect the device from this port immediately.

2.4.2 Rear Panel



AC Power Connector:

Power is supplied through an external AC power adapter. It supports AC 100-240V, 50/60Hz.

Grounding Terminal:

Ground the switch through the PE cable on the AC cord or with a separate ground wire.

2.5 PACKAGE CONTENTS

Before installing the switch, make sure that the following items are enclosed. If any part is missing or damaged, contact your local agent immediately.

- 24-Port Gigabit Ethernet PoE+ Web-Managed Switch with 2 SFP Ports
- Power cable
- Quick Installation Guide
- User manual (on CD)
- Four rubber feet, two mounting ears and eights screws

3 INSTALLING AND CONNECTING THE SWITCH

This part describes how to install your Web-Managed Gigabit Ethernet PoE+ Switch and make connections to it.

3.1 INSTALLATION

The following steps will help prevent damage to the device while also helping to maintain proper security.

- Place the switch on a stable surface or desktop to minimize the chances of falling.
- Make sure the switch works in the proper AC input range and matches the voltage labeled on the switch.
- To keep the switch free from lightning damage, do not open the switch's chassis even if it fails to receive power.
- Make sure that there is proper heat dissipation from and adequate ventilation around the switch.
- Make sure the surface the switch is placed on can support the weight of the switch and its accessories.

3.1.1 Desktop Installation

When installing the switch on a desktop (if not in a rack), attach the enclosed rubber feet to the bottom corners of the switch to minimize vibration. Allow adequate space for ventilation between the device and the objects around it.

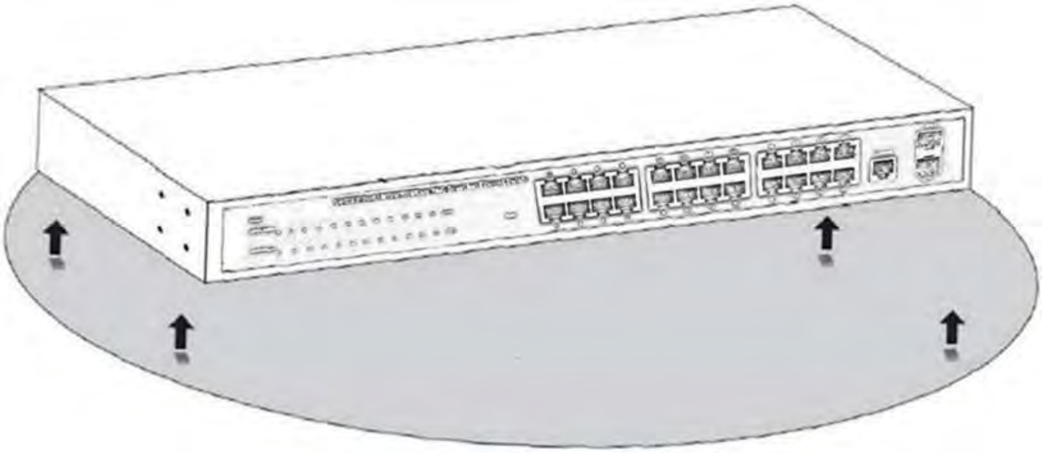


Figure 4 - Desktop Installation

3.1.2 *Rack-mountable Installation in 19-inch Cabinet*

The switch can be mounted in an EIA standard-sized, 19-inch rack, which can be placed in a wiring closet with other equipment. To install the switch, follow these steps:

a. Attach the mounting brackets on the switch's side panels (one on each side) and secure them with the screws provided.

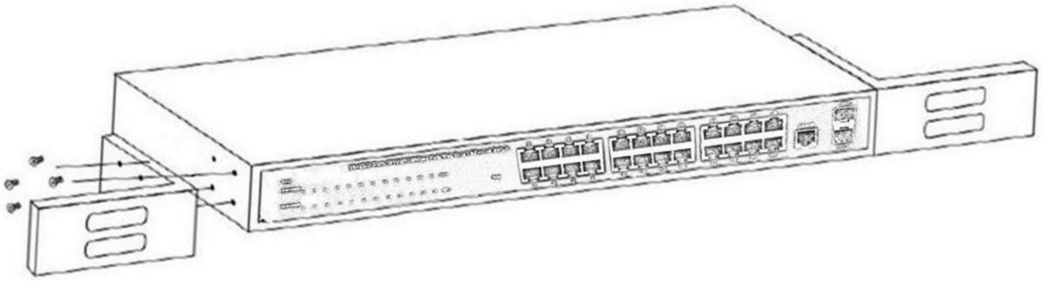


Figure 5 - Bracket Installation

b. Use the screws provided with the equipment rack to mount the switch on the rack and tighten it.

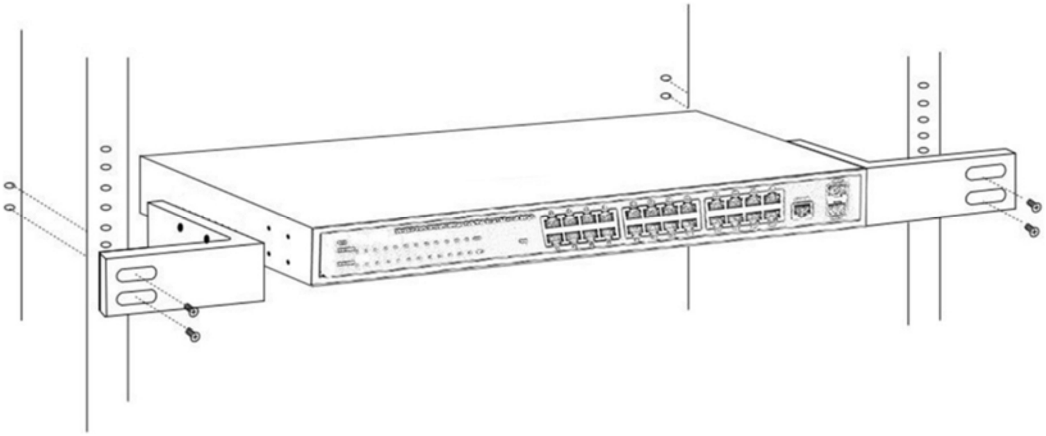


Figure 6 - Rack Installation

3.1.3 Power on the Switch

The switch is powered on by connecting it to an outlet using the AC 100-240V 50/60Hz internal high-performance power supply.

AC Electrical Outlet:

It is recommended to use a single-phase, three-wire receptacle with a neutral outlet or multifunctional computer professional receptacle. Be sure to connect the metal ground connector to the grounding source on the outlet.

AC Power Cord Connection:

Connect the AC power connector on the back panel of the switch to an external receptacle with the included power cord, then check that the power indicator is ON. When it is ON, it indicates the power connection is okay.

4 CONNECTION TO THE SWITCH

4.1 CONNECTING COMPUTER

Use standard Cat5/5e Ethernet cable (UTP/STP) to connect the switch to end nodes as described below. Switch ports will automatically adjust to the characteristics (MDI/MDI-X, speed, duplex) of the device to which they are connected.

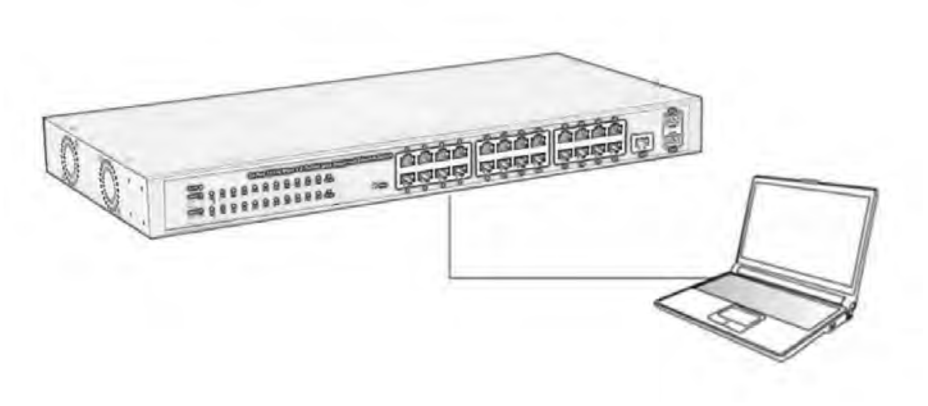


Figure 7 - PC Connect

The LNK/ACT/Speed LEDs for each port light when the link is available.

4.2 HOW TO LOGIN TO THE SWITCH

As the switch provides Web-based management login, you can configure your computer's IP address manually to log on to the switch. The default settings of the switch are shown below.

Parameter	Default Value
Default IP address	192.168.2.1
Default Username	admin
Default Password	admin

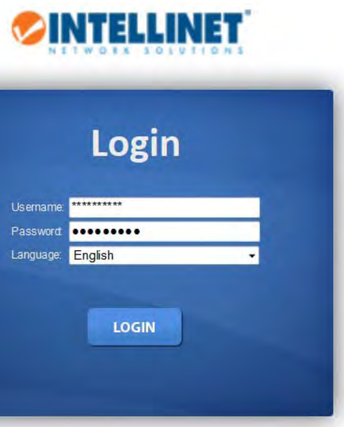
You can log on to the configuration window of the switch through following steps:

1. Connect the switch with the computer NIC interface.

2. Power on the switch.

3. Check whether the IP address of the computer is within this network segment: 192.168.2.xxx ("xxx" range is 2-254); for example, 192.168.2.100.

4. Open the browser, and go to the URL *http://192.168.2.1*. The switch login window appears, as shown below.

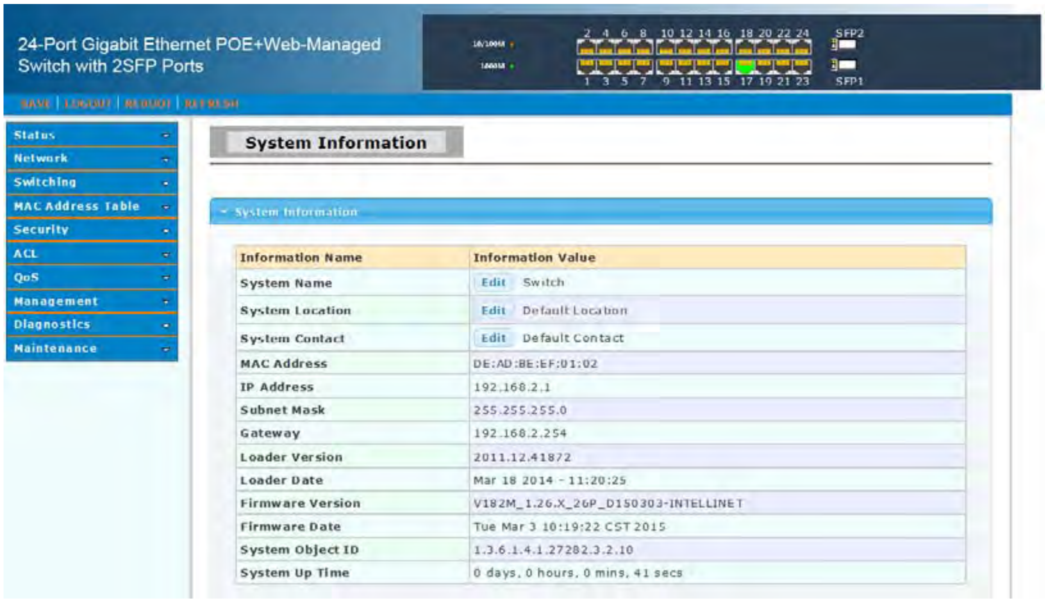


Username: **********

Password: ●●●●●●●●●

Language: English

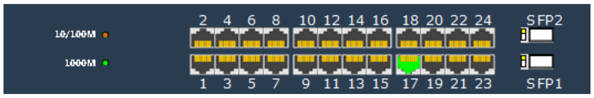
5. Enter the Username and Password (the factory default Username is admin and Password is admin), and then click "LOGIN" to log in to the switch configuration window as below.



Information Name	Information Value
System Name	Edit Switch
System Location	Edit Default Location
System Contact	Edit Default Contact
MAC Address	DE:AD:BE:EF:01:02
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	192.168.2.254
Loader Version	2011.12.41872
Loader Date	Mar 18 2014 - 11:20:25
Firmware Version	V182M_1.26.X_26P_D150303-INTELLINET
Firmware Date	Tue Mar 3 10:19:22 CST 2015
System Object ID	1.3.6.1.4.1.27282.3.2.10
System Up Time	0 days, 0 hours, 0 mins, 41 secs

5 Switch Configuration

The PoE+ Web-Managed Gigabit Ethernet Switch software provides rich Layer 2 functionality for switches in your networks. This chapter describes how to use the Web-based management interface (Web UI) for this switch.

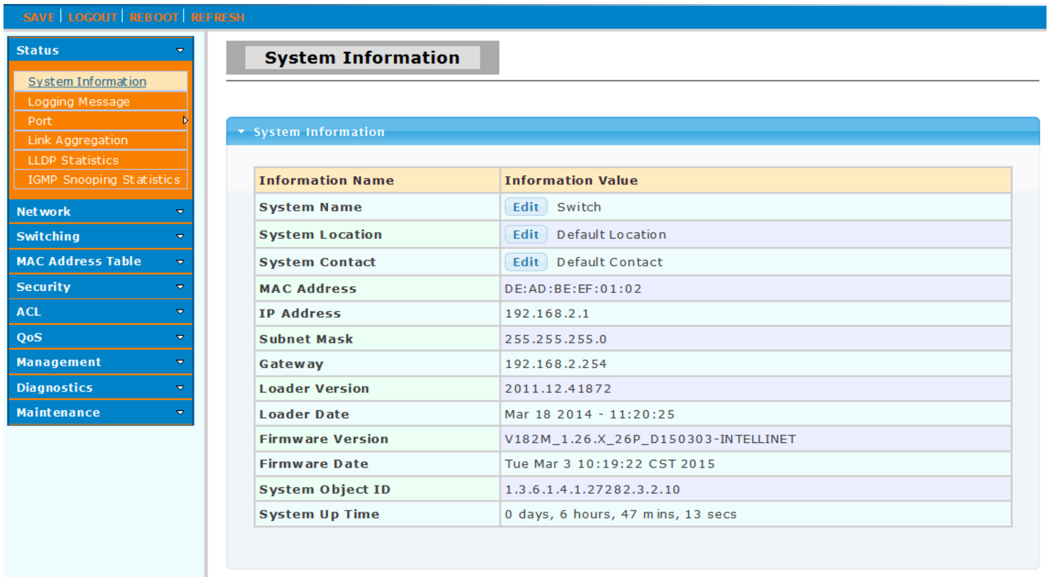


In the Web UI, the left column shows the configuration menu. The top row shows the switch's current link status. Green squares indicate the port link is up (port 17 in the example above), while black squares indicate the port link is down. Below the switch panel, you can find a common toolbar to provide useful functions for users. The rest of the screen area displays the configuration settings.

5.1 Status

5.1.1 System Information

This page allows you to configure System-related information and browse information such as MAC address, IP address, firmware version, loader version, among others.



System Information

System Information

Information Name	Information Value
System Name	Edit Switch
System Location	Edit Default Location
System Contact	Edit Default Contact
MAC Address	DE:AD:BE:EF:01:02
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	192.168.2.254
Loader Version	2011.12.41872
Loader Date	Mar 18 2014 - 11:20:25
Firmware Version	V182M_1.26.X_26P_D150303-INTELLINET
Firmware Date	Tue Mar 3 10:19:22 CST 2015
System Object ID	1.3.6.1.4.1.27282.3.2.10
System Up Time	0 days, 6 hours, 47 mins, 13 secs

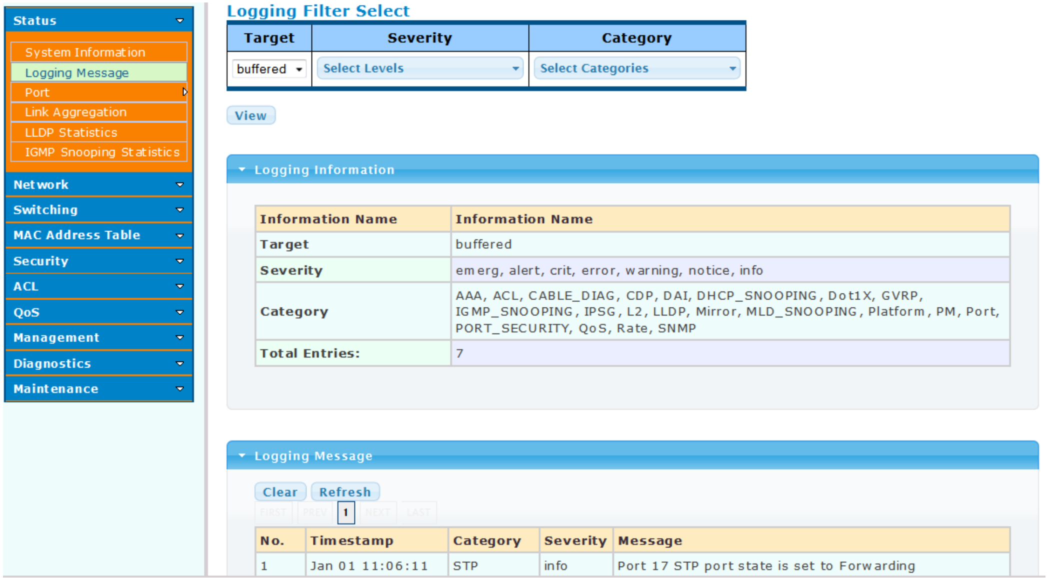
System Name: System name of the switch. This name will also use as CLI prefix of each line. ("Switch>" or "Switch#").

System Location: System location of the switch, e.g., "ServerRoom".

System Contact: System contact of the switch, e.g., the system administrator.

5.1.2 *Logging Message*

The Intellinet 24-Port Gigabit Ethernet PoE+ Web-Managed Switch is equipped with an extensive logging function. You can define the type of events you wish the switch to log, the level of detail and the target destination for the log.



Logging Filter Select

Target	Severity	Category
buffered	Select Levels	Select Categories

Logging Information

Information Name	Information Name
Target	buffered
Severity	emerg, alert, crit, error, warning, notice, info
Category	AAA, ACL, CABLE_DIAG, CDP, DAI, DHCP_SNOOPING, Dot1X, GVRP, IGMP_SNOOPING, IPSG, L2, LLDP, Mirror, MLD_SNOOPING, Platform, PM, Port, PORT_SECURITY, QoS, Rate, SNMP
Total Entries:	7

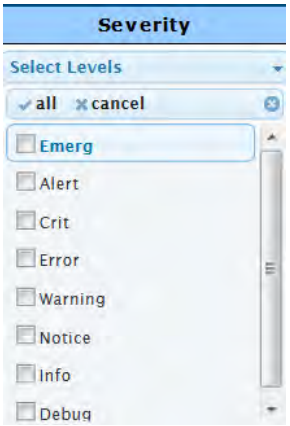
Logging Message

No.	Timestamp	Category	Severity	Message
1	Jan 01 11:06:11	STP	info	Port 17 STP port state is set to Forwarding

Target:

- Buffered: The Log information is stored in the RAM. All messages are lost when the switch loses power or is being restarted.
- Flash: Log information is stored in the FLASH memory and will be available after a system restart.

Severity: In a network there are events occurring constantly, and the Intellinet switch can log a great deal of these at runtime. With the severity filter you can define the threshold at which point an event is considered “log worthy”. “Emerg” only logs events which are considered an “Emergency”. That is the kind of event that would get a system administrator out of bed at 4 o’clock in the morning. “Debug” on the other hand is the polar opposite. In this mode there is nothing the switch considered unimportant. Choose whichever level is right for you.



Category: Select what type of events the switch should log, for instance port related events, or events belong to the ACL Access Control List.

5.1.3 Port

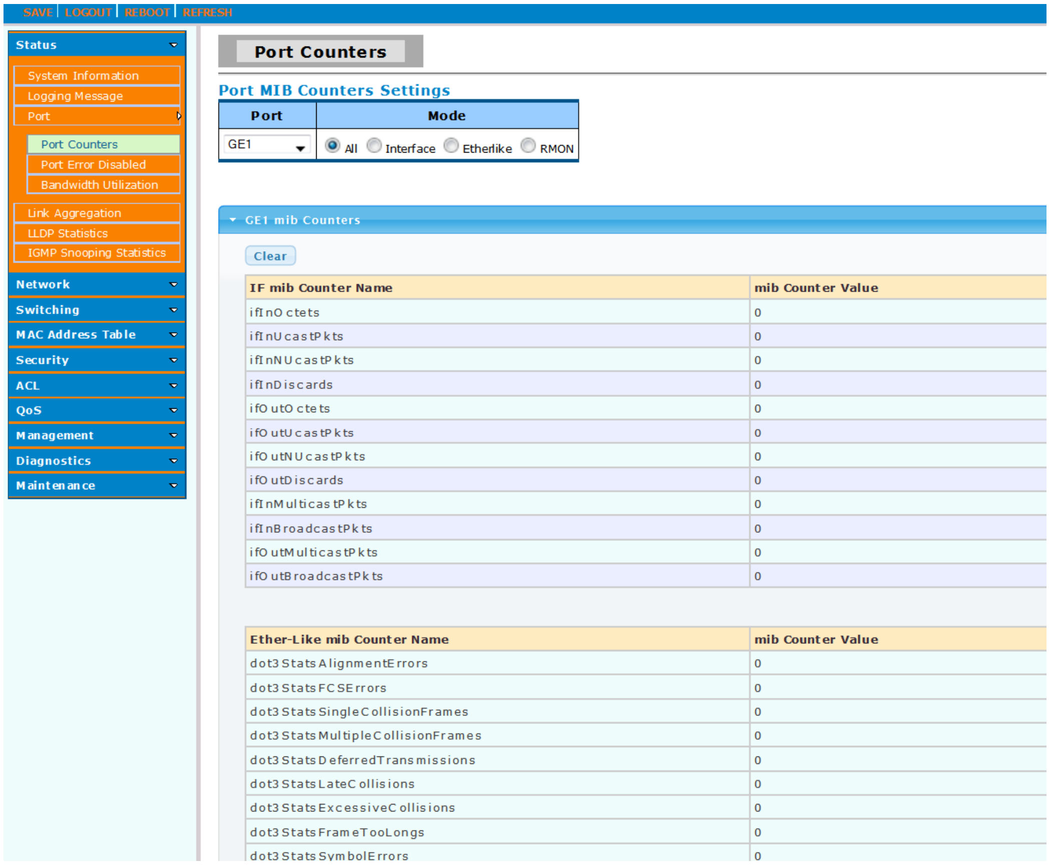
The Port configuration page displays port summary and status information.

5.1.3.1 Port Counters

This page displays standard counters of network traffic using modes like Interface, EtherLike and RMON. Interfaces and EtherLike 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.

Port: Select any of the 24 RJ45 Gigabit Ethernet Ports (GE), 2 SFP ports, or 8 Link Aggregation Groups (LAG).

Mode: Select the filter you wish to apply to the displayed results.



Port Counters

Port MIB Counters Settings

Port	Mode
GE1	● All ○ Interface ○ Etherlike ○ RMON

GE1 mib Counters

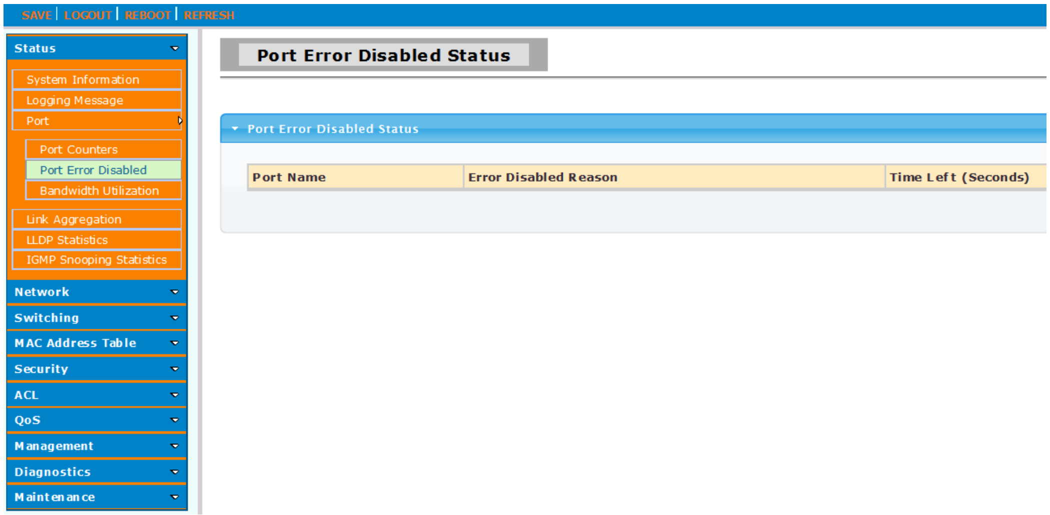
IF mib Counter Name	mib Counter Value
ifInOctets	0
ifInUcastPkts	0
ifInNUcastPkts	0
ifInDiscards	0
ifOutOctets	0
ifOutUcastPkts	0
ifOutNUcastPkts	0
ifOutDiscards	0
ifInMulticastPkts	0
ifInBroadcastPkts	0
ifOutMulticastPkts	0
ifOutBroadcastPkts	0

Ether-Like mib Counter Name	mib Counter Value
dot3StatsAlignmentErrors	0
dot3StatsFCSErrors	0
dot3StatsSingleCollisionFrames	0
dot3StatsMultipleCollisionFrames	0
dot3StatsDeferredTransmissions	0
dot3StatsLateCollisions	0
dot3StatsExcessiveCollisions	0
dot3StatsFrameTooLongs	0
dot3StatsSymbolErrors	0

5.1.3.2 Port Error Disabled

Some protocols such as BPDU Guard, Loop back and UDLD can disable ports to protect the rest of the network, for instance if the switch detects that one of the attached network interface cards is malfunctioning and flooding the network with error packets.

Ideally, you want this screen to look as shown below.



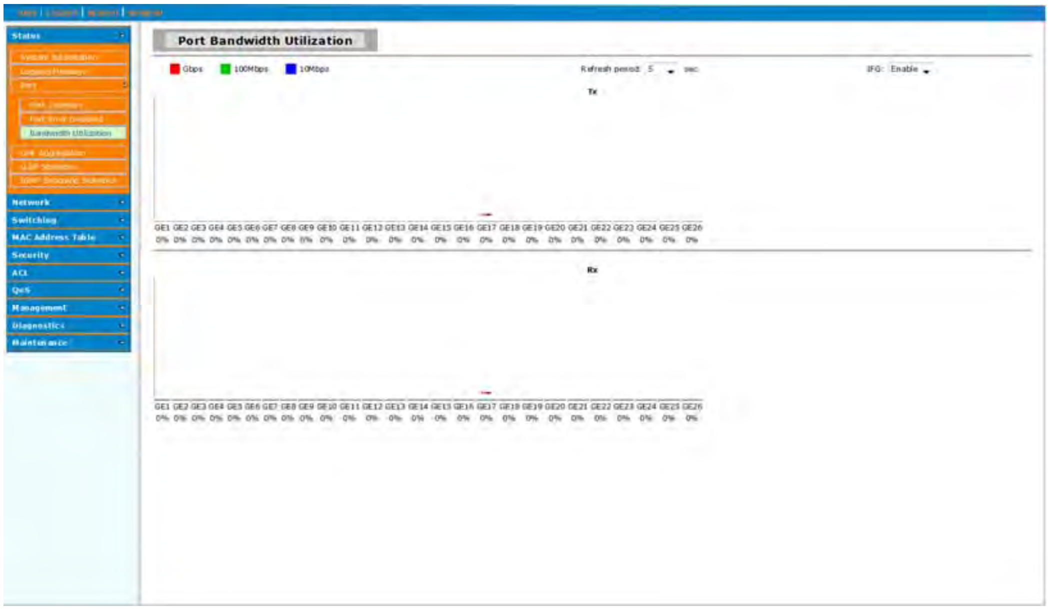
Port Error Disabled Status

Port Error Disabled Status

Port Name	Error Disabled Reason	Time Left (Seconds)

5.1.3.3 Bandwidth Utilization

This page displays the TX (transmit) and RX (receive) bandwidth utilization for each port.


Port Bandwidth Utilization

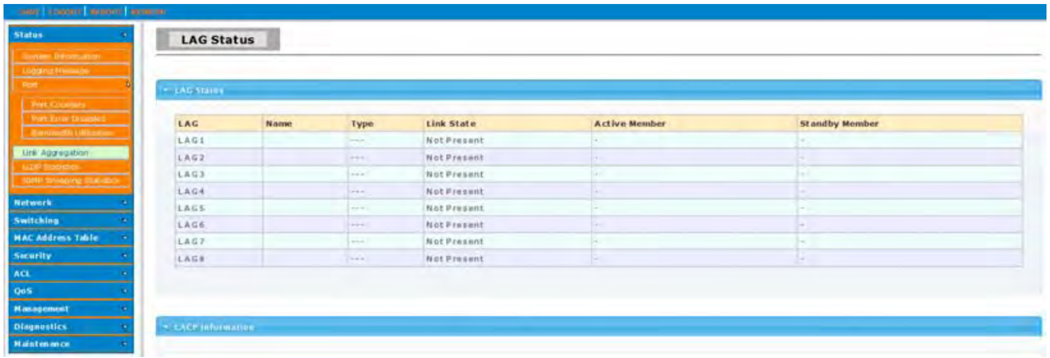
Refresh period: 5 sec

IFG: Enable

🟥 Gbps
🟩 100Mbps
🟦 10Mbps
Tx
GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9 GE10 GE11 GE12 GE13 GE14 GE15 GE16 GE17 GE18 GE19 GE20 GE21 GE22 GE23 GE24 GE25 GE26
0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%
Rx
GE1 GE2 GE3 GE4 GE5 GE6 GE7 GE8 GE9 GE10 GE11 GE12 GE13 GE14 GE15 GE16 GE17 GE18 GE19 GE20 GE21 GE22 GE23 GE24 GE25 GE26
0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%

5.1.4 Link Aggregation

Link aggregation is a method of using multiple Ethernet ports in parallel to increase throughput beyond what a single connection could sustain, and to provide redundancy in case one of the links should fail. As this is essentially a grouping of ports into one logical unit, we call them Link Aggregation Groups, or “LAG” for short. Any LAG that is currently defined will be shown on this screen. The configuration of the LAG will be addressed later in the section “Switching”.

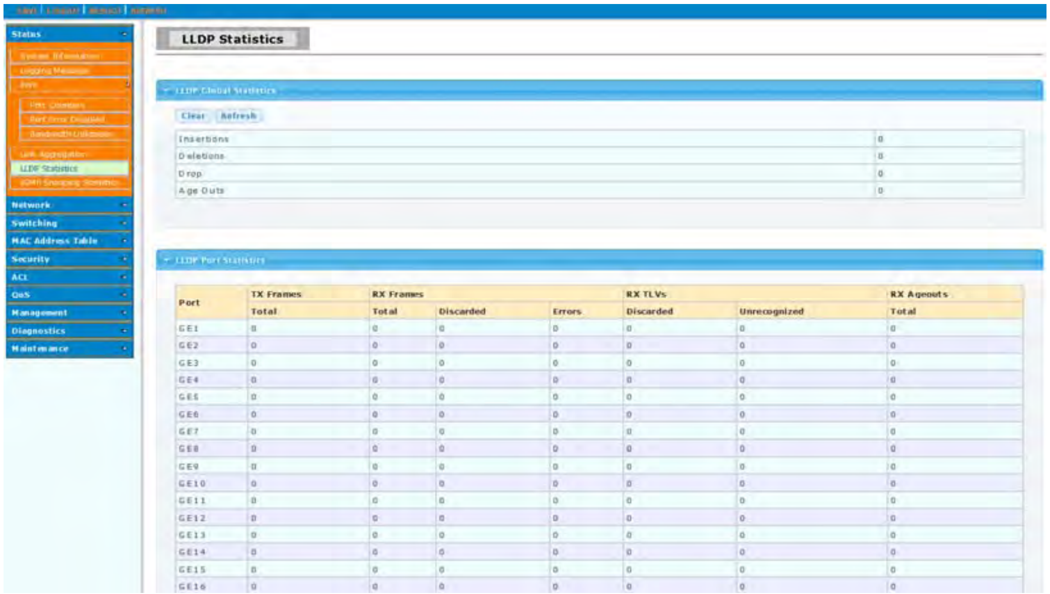


LAG Status

LAG	Name	Type	Link State	Active Member	Standby Member
LAG1		---	Not Present	-	-
LAG2		---	Not Present	-	-
LAG3		---	Not Present	-	-
LAG4		---	Not Present	-	-
LAG5		---	Not Present	-	-
LAG6		---	Not Present	-	-
LAG7		---	Not Present	-	-
LAG8		---	Not Present	-	-

5.1.5 LLDP Statistics

The Link Layer Discovery Protocol (LLDP) is a vendor-neutral link layer protocol in the Internet Protocol Suite used by network devices for advertising their identity, capabilities, and neighbors on an IEEE 802 local area network, principally wired Ethernet. The LLDP statistics page displays an overall summary and per-port information for LLDP frames transmitted and received on the switch.



LLDP Statistics

LLDP Global Statistics

Insertions	0
Deletions	0
Drop	0
Age Outs	0

LLDP Port Statistics

Port	TX Frames	RX Frames			RX TLVs		RX Ageouts
	Total	Total	Discarded	Errors	Discarded	Unrecognized	Total
GE1	0	0	0	0	0	0	0
GE2	0	0	0	0	0	0	0
GE3	0	0	0	0	0	0	0
GE4	0	0	0	0	0	0	0
GE5	0	0	0	0	0	0	0
GE6	0	0	0	0	0	0	0
GE7	0	0	0	0	0	0	0
GE8	0	0	0	0	0	0	0
GE9	0	0	0	0	0	0	0
GE10	0	0	0	0	0	0	0
GE11	0	0	0	0	0	0	0
GE12	0	0	0	0	0	0	0
GE13	0	0	0	0	0	0	0
GE14	0	0	0	0	0	0	0
GE15	0	0	0	0	0	0	0
GE16	0	0	0	0	0	0	0

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.

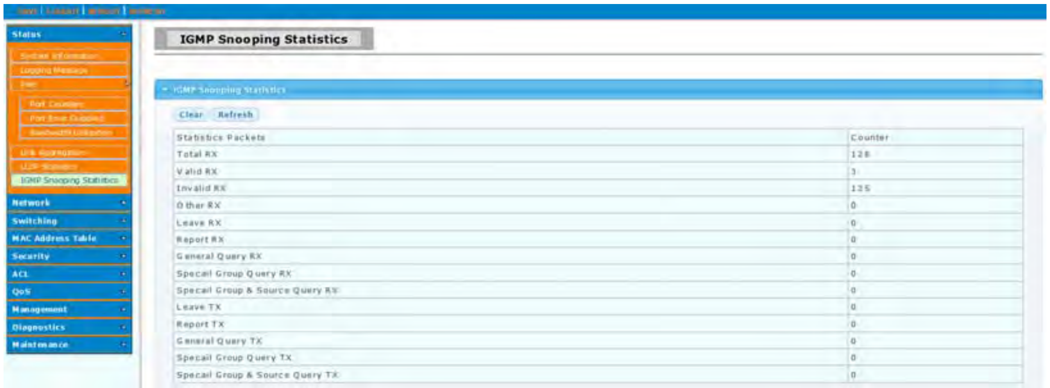
Drops: The number of times the complete set of information advertised by MSAP could not be entered into tables associated with the remote systems because of insufficient resources.

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.

5.1.6 IGMP Snooping Statistics

The Internet Group Management Protocol (IGMP) is a communications protocol used by hosts and adjacent routers on IP networks to establish multicast group memberships. IGMP is an integral part of IP multicast. IGMP can be used for one-to-many networking applications such as online streaming video and gaming, and allows more efficient use of resources when supporting these types of applications.

This page displays the IGMP statistics information, also referred to as 'Snooping Statistics'.



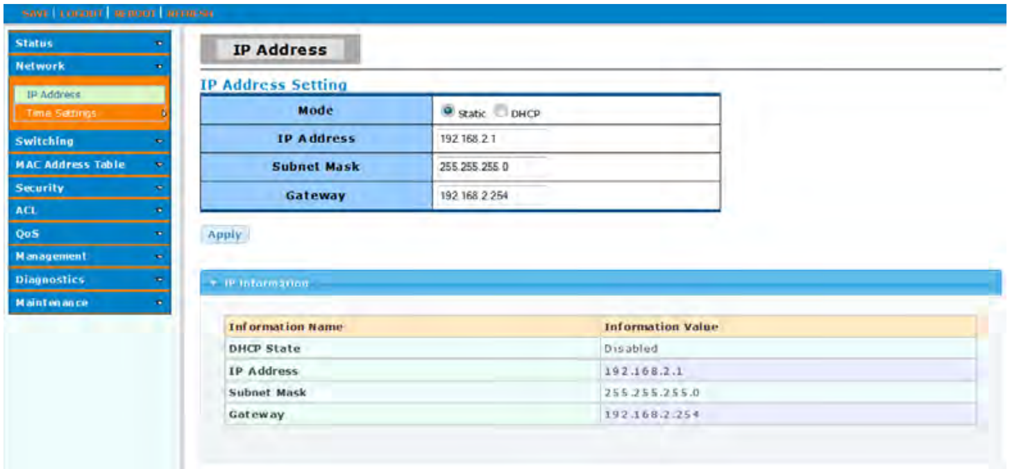
Statistics Packets	Counter
Total RX	128
Valid RX	3
Invalid RX	125
Other RX	0
Leave RX	0
Report RX	0
General Query RX	0
Specail Group Query RX	0
Specail Group & Source Query RX	0
Leave TX	0
Report TX	0
General Query TX	0
Specail Group Query TX	0
Specail Group & Source Query TX	0

5.2 NETWORK

Use the Network page to configure settings for the switch network interface and set up the time related settings.

5.2.1 IP Address

Define the IP address of the switch here.



IP Address

IP Address Setting

Mode	● Static ○ DHCP
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	192.168.2.254

Information Name	Information Value
DHCP State	Disabled
IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	192.168.2.254

Mode: Select the mode of network connection.

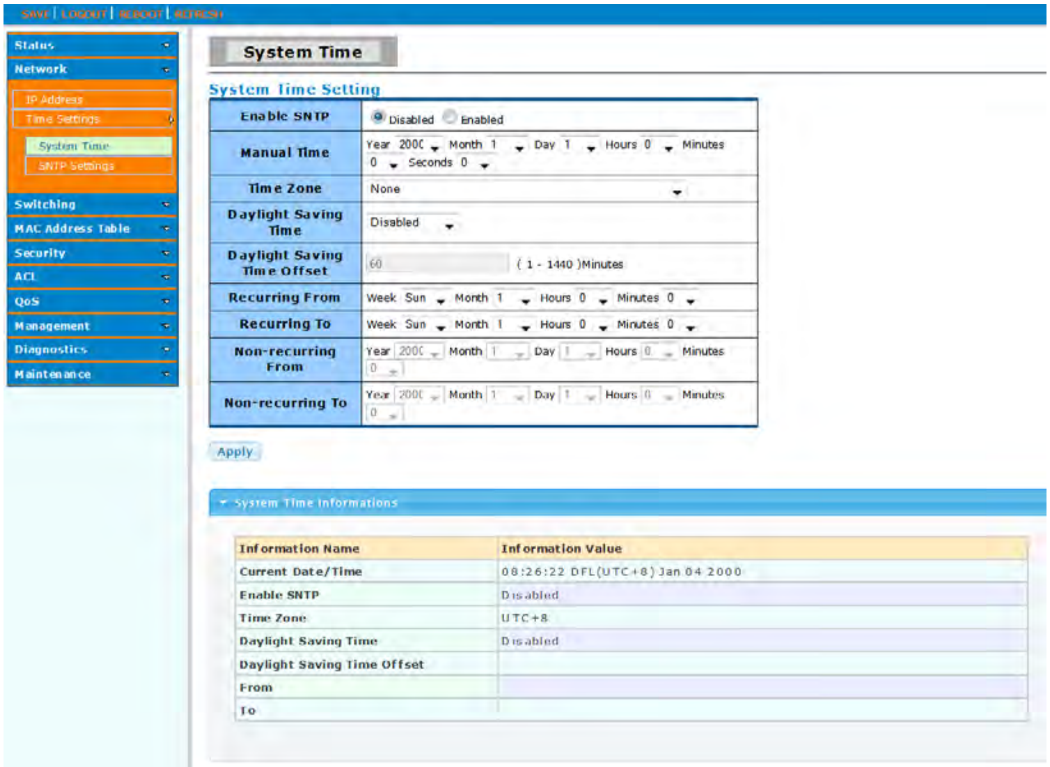
- Static: Define the IP address manually. The IP address, subnet mask and gateway address must be provided.
- DHCP: obtain IP information from a DHCP server on the network.

Note that you have multiple of these switches installed in your network, you must assign a unique IP address to each of them, even if you don’t plan on using any of the smart features of the switch. As a reminder, the default IP address of this switch is 192.168.2.1.

5.2.2 *Time Settings*

5.2.2.1 *System Time*

For the switch to accurately flag messages with the correct date and time stamp, the switch's system time must be set up first. Set "Enable SNTP" to "Disabled" if you do not want to sync the switch system time with an external time server, but rather want to configure it manually.



System Time

System Time Setting

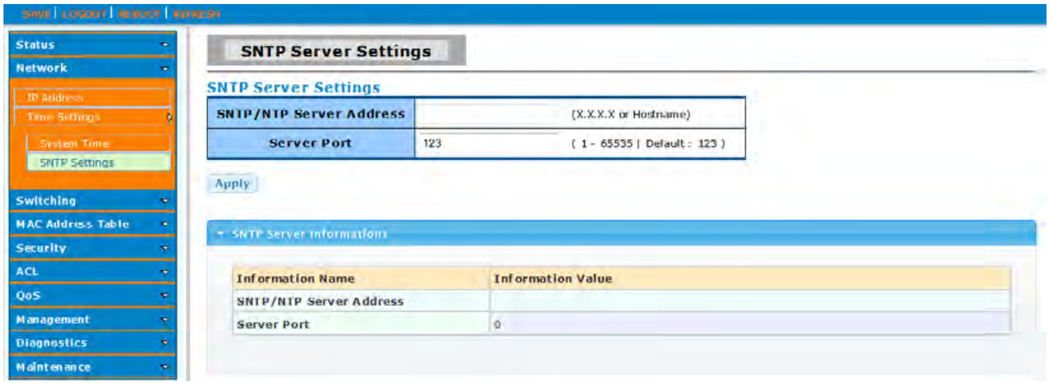
Enable SNTP	● Disabled ○ Enabled
Manual Time	Year 200(Month 1 Day 1 Hours 0 Minutes 0 Seconds 0
Time Zone	None
Daylight Saving Time	Disabled
Daylight Saving Time Offset	60 (1 - 1440)Minutes
Recurring From	Week Sun Month 1 Hours 0 Minutes 0
Recurring To	Week Sun Month 1 Hours 0 Minutes 0
Non-recurring From	Year 200(Month 1 Day 1 Hours 0 Minutes 0
Non-recurring To	Year 200(Month 1 Day 1 Hours 0 Minutes 0

System Time Informations

Information Name	Information Value
Current Date/Time	08:26:22 DFL(UTC+8) Jan 04 2000
Enable SNTP	Disabled
Time Zone	UTC+8
Daylight Saving Time	Disabled
Daylight Saving Time Offset	
From	
To	

5.2.2.2 *SNTP Settings*

If you wish to synchronize the switch system time with an external time server, also referred to as an NTP or SNTP server, then you can provide the IP address or host name of said server on this screen. Unless you know it to be different, it is recommend to leave the server port as '123'. If you have a NTP server in your LAN, then you can utilize that too, of course.



SNTP Server Settings

SNTP Server Settings

SNTP/NTP Server Address	(X.X.X.X or Hostname)
Server Port	123 (1 - 65535 | Default : 123)

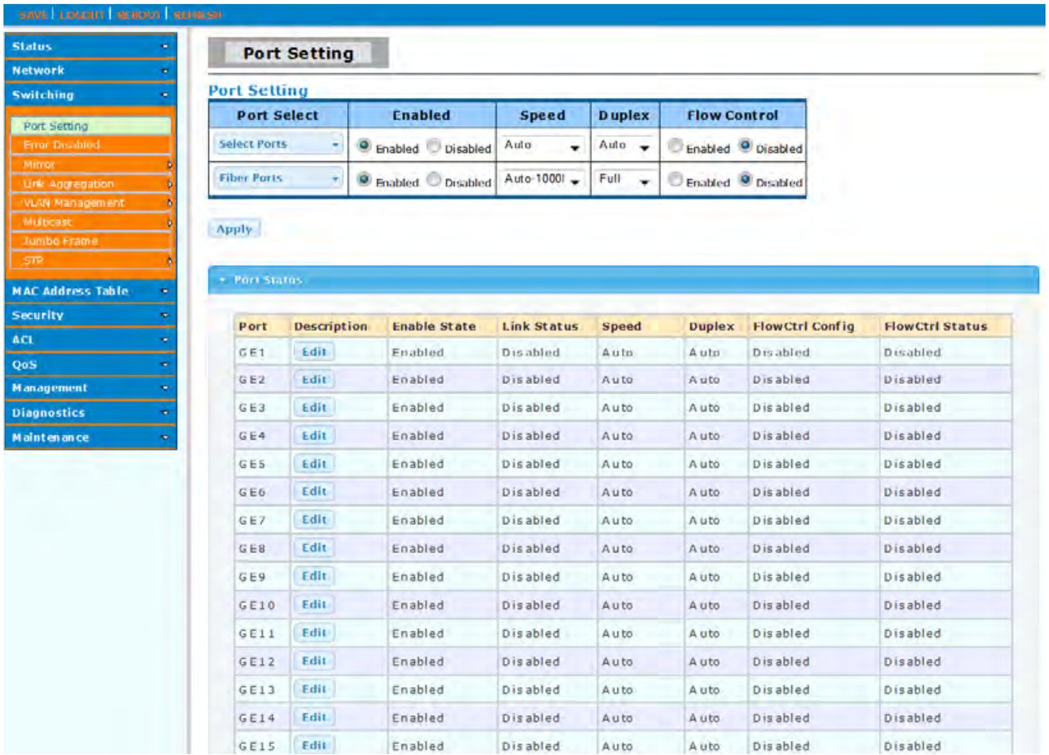
SNTP Server Informations

Information Name	Information Value
SNTP/NTP Server Address	
Server Port	0

5.3 SWITCHING

5.3.1 *Port Setting*

On this screen you can configure basic aspects of each of the ports.



Port Setting

Port Select	Enabled	Speed	Duplex	Flow Control
Select Ports	● Enabled ○ Disabled	Auto	Auto	○ Enabled ● Disabled
Fiber Ports	● Enabled ○ Disabled	Auto-1000!	Full	○ Enabled ● Disabled

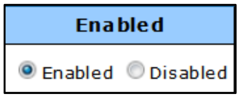
Port	Description	Enable State	Link Status	Speed	Duplex	FlowCtrl Config	FlowCtrl Status
GE1	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE2	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE3	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE4	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE5	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE6	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE7	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE8	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE9	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE10	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE11	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE12	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE13	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE14	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled
GE15	Edit	Enabled	Disabled	Auto	Auto	Disabled	Disabled

Port Select:

Select one or multiple ports to configure.

Enabled:

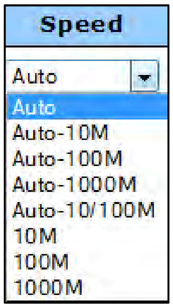
Enable or disable the port. Disabling the power will also cut off power to any connected PoE powered device.



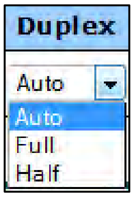
Enabled
● Enabled ○ Disabled

Speed:

Typically you set to speed to “Auto,” which stands for auto-negotiation. In this mode the connection will be made at the fastest possible speed. In very rare cases, however, this auto-negotiation can fail, and you need to manually adjust the speed to whatever the connecting device is capable of.



Duplex:

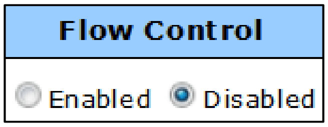


Duplex

Auto

In a full duplex system, both parties can communicate to the other simultaneously. An example of a full-duplex device is a telephone; the parties at both ends of a call can speak and be heard by the other party simultaneously. In networking terms, full duplex allows receiving and transmitting of data at the same time, whereas half duplex does not. If the telephone is an example for full duplex, then a push-to-talk CB radio or ‘walkie-talkie’ represents half duplex. The switch can either receive or send data, but it can never happen simultaneously. Unless you have any specific reason not to do so, this should be left in “Auto” mode.

Flow Control:



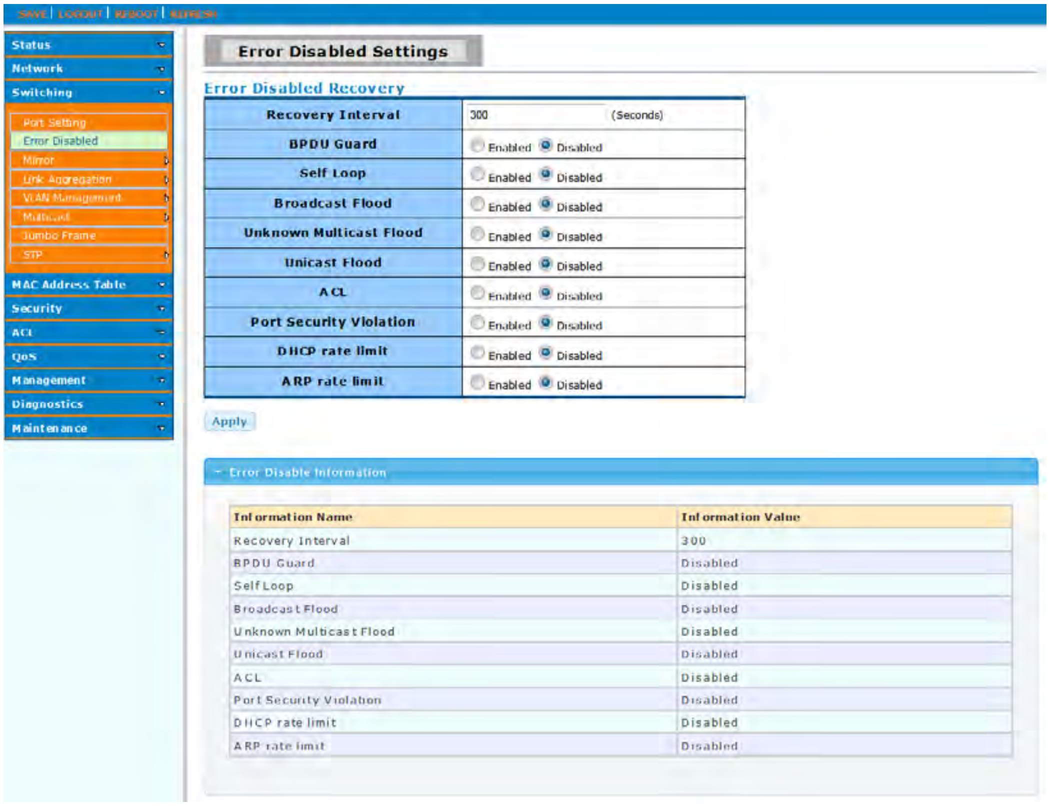
Flow Control

○ Enabled ● Disabled

IEEE 802.3x flow control is the process of managing the rate of data transmission between two nodes, i.E. the switch and a connected network client, to prevent a fast sender from overwhelming a slow receiver. It provides a mechanism for the receiver to control the transmission speed, so that the receiving node is not overwhelmed with data from transmitting node. That sounds like it is a good thing, and it is, but why then is the option by default set to “disabled” you might ask. The short answer is: Because you normally don’t need it, and because it can in very rare circumstances have a negative impact on the overall performance in your network. The TCP protocol already provides its own flow control mechanism, allowing a sender to throttle back the speed if the receiver is having problems keeping up.

5.3.2 *Error Disabled*

This page allows you to define the parameters for the automatic port disable function.



Error Disabled Settings

Error Disabled Recovery

Recovery Interval	300 (Seconds)
BPDU Guard	○ Enabled ● Disabled
Self Loop	○ Enabled ● Disabled
Broadcast Flood	○ Enabled ● Disabled
Unknown Multicast Flood	○ Enabled ● Disabled
Unicast Flood	○ Enabled ● Disabled
ACL	○ Enabled ● Disabled
Port Security Violation	○ Enabled ● Disabled
DHCP rate limit	○ Enabled ● Disabled
ARP rate limit	○ Enabled ● Disabled

Apply

Error Disable Information

Information Name	Information Value
Recovery Interval	300
BPDU Guard	Disabled
Self Loop	Disabled
Broadcast Flood	Disabled
Unknown Multicast Flood	Disabled
Unicast Flood	Disabled
ACL	Disabled
Port Security Violation	Disabled
DHCP rate limit	Disabled
ARP rate limit	Disabled

Recovery Interval: The switch will automatically re-enable ports that have been previously disabled, after the recovery interval time has elapsed.

BPDU Guard: BPDUs are sent out as multicast frames to which only other layer 2 switches or bridges are listening. If any loops (multiple possible paths between switches) are found in the network topology, the switches will co-operate to disable a port or ports to ensure that there are no loops.

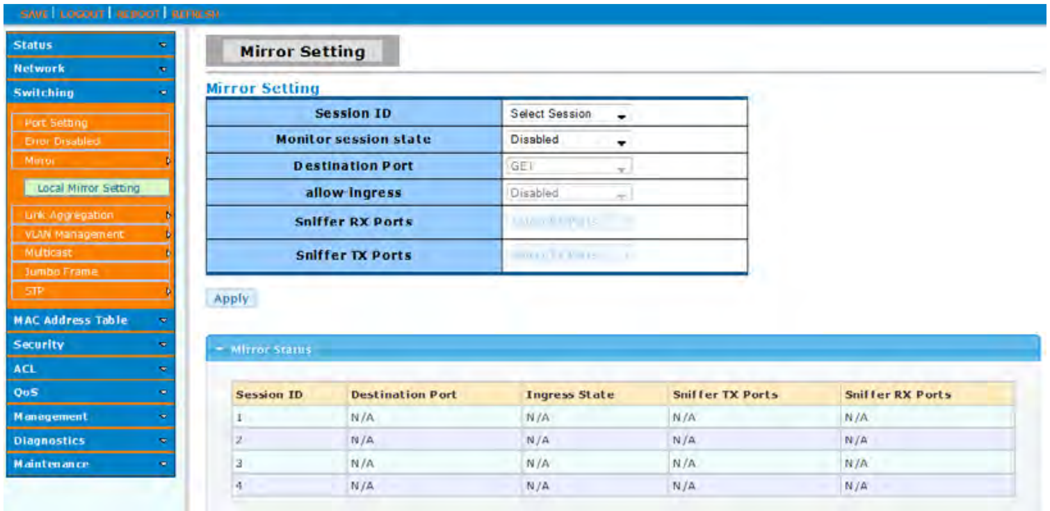
Flood: The network can get overwhelmed by a large amount of unicast packets that can literally flood the entire network and can consume sufficient network resources so as to render the network unable to transport normal traffic.

ACL/Port Security Violation: Security related threads that violate the Access Control List settings can be caught by the switch, and drastic measures can be taken, namely disable the port from which the packets originate.

DHCP/ARP Rate Limit: Ports are disabled that exceed the DHCP request and ARP rate limits.

5.3.3 *Traffic Mirroring*

Port mirroring is the ability of a network switch to send a copy of network packets seen on a switch port or ports to a network-monitoring device connected to another switch port, i.e., a computer equipped with a packet sniffer utility.



Mirror Setting

Mirror Setting

Session ID	Select Session
Monitor session state	Disabled
Destination Port	GE1
allow ingress	Disabled
Sniffer RX Ports	
Sniffer TX Ports	

Mirror Status

Session ID	Destination Port	Ingress State	Sniffer TX Ports	Sniffer RX Ports
1	N/A	N/A	N/A	N/A
2	N/A	N/A	N/A	N/A
3	N/A	N/A	N/A	N/A
4	N/A	N/A	N/A	N/A

Session ID: The Intellinet switch supports up to 4 session IDs.

Monitor Session State: Disables or enables port mirroring for this session.

Destination Port: The port to which the mirrored packets are sent, which is the port to which you connect your network monitoring station. This port will no longer function as a regular port, and it cannot be assigned to any LAG or VLAN group.

Allow-Ingress: Enable or Disable ingress traffic forwarding. An example for ingress traffic is the information returned by a web site to the local user's request. Egress, on the other hand, would be the request by the local user to the web site. Simply speaking, from the standpoint of your network, ingress traffic can be consider incoming or inbound traffic, whereas egress traffic is outgoing or outbound traffic.

Sniffer RX/TX Ports: Defines the source ports from which traffic will be mirrored.

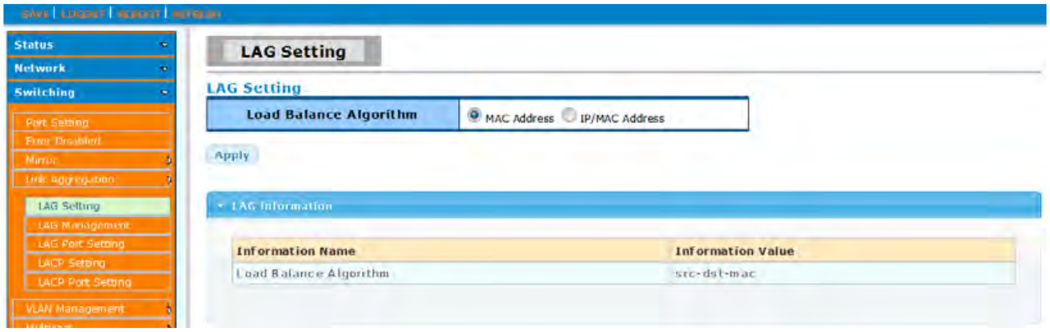
TX Ports: Only traffic transmitted originating from these ports will be mirrored to the destination port.

RX Port: Only traffic received by these ports will be mirrored to the destination port.

5.3.4 Link Aggregation

5.3.4.1 *LAG Setting*

Besides providing a higher speed connection to another port by grouping ports together into la logical unit, Link Aggregation (LAG) also provides a load balancing feature. On this screen you define whether LAG that is depended on the MAC address or IP/MAC address.



LAG Setting

LAG Setting

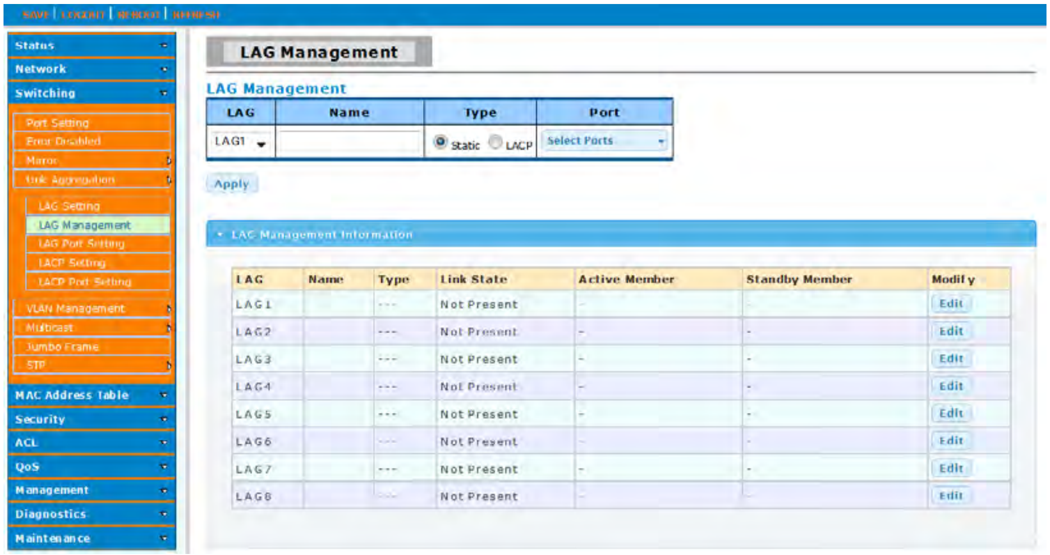
Load Balance Algorithm	● MAC Address ○ IP/MAC Address

LAG Information

Information Name	Information Value
Load Balance Algorithm	src-dst-mac

5.3.4.2 *LAG Management*

This page is used to set up LAG groups. You can create up to 8 different LAG groups, each can have up to 8 member ports. Each LAG can be given a custom name, and you must select the ports for the LAG.



LAG Management

LAG Management

LAG	Name	Type	Port
LAG1		● Static ○ LACP	Select Ports

LAG Management Information

LAG	Name	Type	Link State	Active Member	Standby Member	Modify
LAG1		---	Not Present	-	-	Edit
LAG2		---	Not Present	-	-	Edit
LAG3		---	Not Present	-	-	Edit
LAG4		---	Not Present	-	-	Edit
LAG5		---	Not Present	-	-	Edit
LAG6		---	Not Present	-	-	Edit
LAG7		---	Not Present	-	-	Edit
LAG8		---	Not Present	-	-	Edit

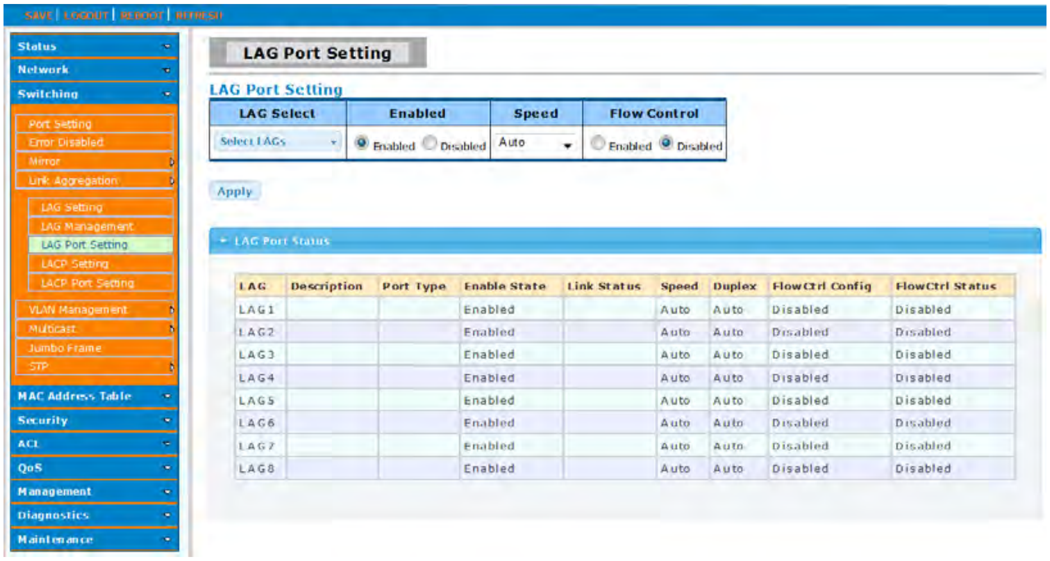
As for the type, there are two choices: Static and LACP.

Static: All configuration settings must be set up manually exactly the same way on the participating LAG device, i.e., the other Intellinet 24 Port PoE+ Web Managed Gigabit Switch. There is no problem with doing this of course. Even the static method provides link redundancy, should one or more of the links in the trunk fail. However, if media converters are used, it can happen that the link on the switch#1 is up, but the connection to the switch#2 at the other end is interrupted, for example because of a cable malfunction. In this case, switch#1 keeps sending data via this connection, because on this end there are no interruptions. The data transfer is therefore interrupted.

LACP: Link Aggregation Control Protocol (LACP) allows the dynamic exchange of information with regard to the link aggregation between the two members of said aggregation. It allows for the automatic detection of links in an LAG group when connected to another LACP-compliant Switch. Both switch#1 and switch#2 need to be set to the same mode for this to work. The data between the two switches is packetized in Link Aggregation Control Protocol Data Units (LACDUs). Should any of these packets fail to arrive, for instance due to an interruption one side of the media converter, the switches will quickly remove the LAG group port causing the problem from the LAG group. No data is lost.

5.3.4.3 *LAG Port Setting*

On this page you define additional settings for the LAG groups.



LAG Port Setting

LAG Port Setting

LAG Select	Enabled	Speed	Flow Control
Select LAGs	● Enabled ○ Disabled	Auto	○ Enabled ● Disabled

Apply

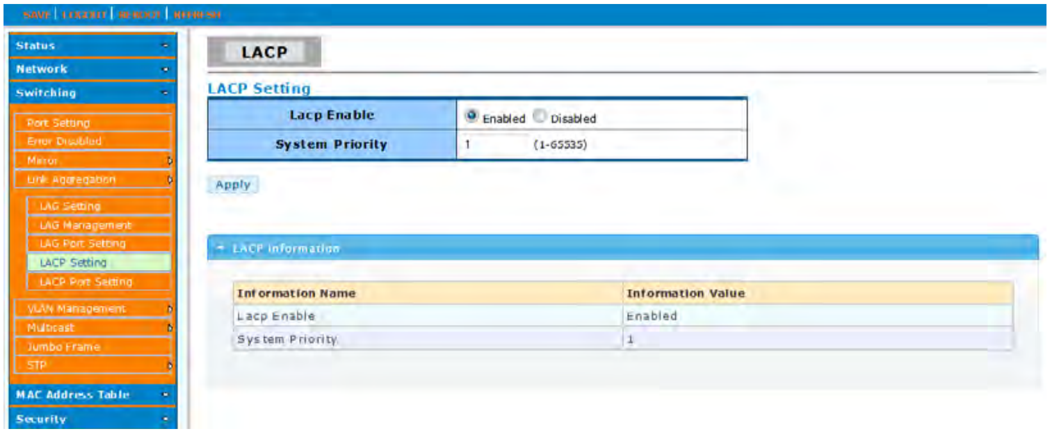
LAG Port Status

LAG	Description	Port Type	Enable State	Link Status	Speed	Duplex	FlowCtrl Config	FlowCtrl Status
LAG1			Enabled		Auto	Auto	Disabled	Disabled
LAG2			Enabled		Auto	Auto	Disabled	Disabled
LAG3			Enabled		Auto	Auto	Disabled	Disabled
LAG4			Enabled		Auto	Auto	Disabled	Disabled
LAG5			Enabled		Auto	Auto	Disabled	Disabled
LAG6			Enabled		Auto	Auto	Disabled	Disabled
LAG7			Enabled		Auto	Auto	Disabled	Disabled
LAG8			Enabled		Auto	Auto	Disabled	Disabled

You can enable or disable the entire group, set the speed to manual values from 10 to 1000 Mbps, or auto, and you can enable or disable flow control.

5.3.4.4 *LACP Setting*

This page is used to configure the system LACP system priority, which determines which switch (switch #1 or switch #2) in an LACP link controls port priorities. If both switches are set to the default value “1,” then the LACP system ID (MAC address of the switch) determines which of the switches is in charge. Other than that, the switch with the lowest system priority number is in control.



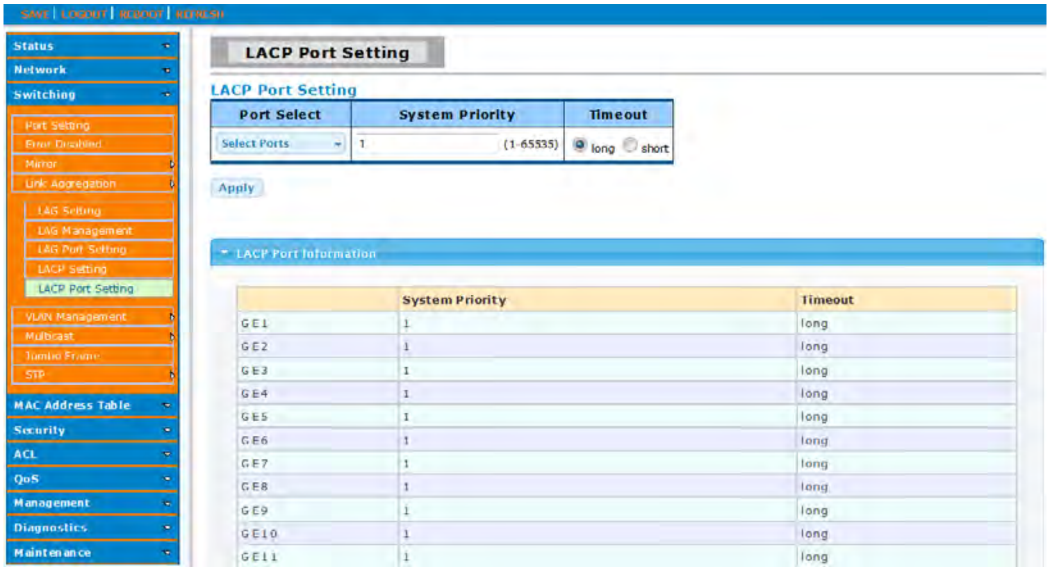
LACP Setting

Lacp Enable	● Enabled ○ Disabled
System Priority	1 (1-65535)

Information Name	Information Value
Lacp Enable	Enabled
System Priority	1

5.3.4.5 *LACP Port Setting*

This page is used to set the priority for the LACP member ports. While the system priority defines, which switch is in charge in the LACP setup, the port priority is used to determine, how the ports in the LACP group are used, based on which port priority. The lowest number value has the highest priority, and if all are left at default, then the actual port number defines the priority.



LACP Port Setting

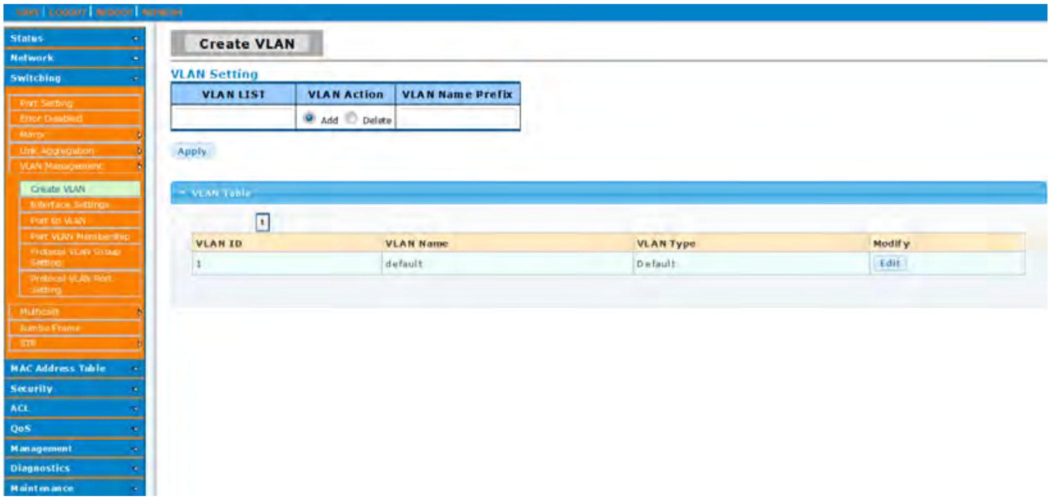
Port Select	System Priority	Timeout
Select Ports	1 (1-65535)	● long ○ short

	System Priority	Timeout
GE1	1	long
GE2	1	long
GE3	1	long
GE4	1	long
GE5	1	long
GE6	1	long
GE7	1	long
GE8	1	long
GE9	1	long
GE10	1	long
GE11	1	long

5.3.5 *VLAN Management*

5.3.5.1 *Create VLAN*

This page allows adding, deleting or editing the switch's VLAN settings.



Create VLAN

VLAN Setting

VLAN LIST	VLAN Action	VLAN Name Prefix
	● Add ○ Delete	

VLAN Table

1

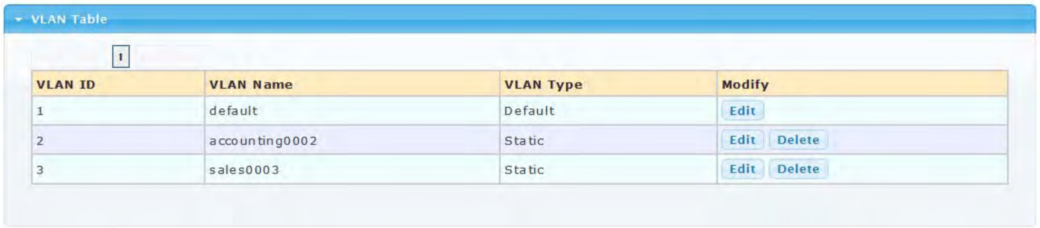
VLAN ID	VLAN Name	VLAN Type	Modify
1	default	Default	Edit

VLAN LIST: This is he ID for the new VLAN.

VLAN Action: Add or delete the VLAN.

VLAN Name Prefix: VLAN Name Prefix for the new VLAN.

Below is a real-world example:



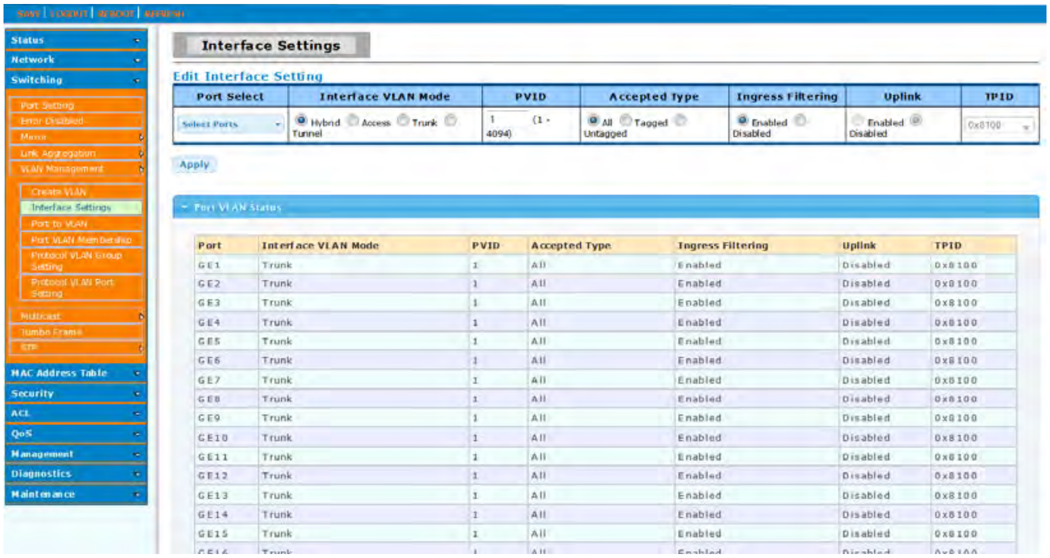
VLAN Table

1

VLAN ID	VLAN Name	VLAN Type	Modify
1	default	Default	Edit
2	accounting0002	Static	Edit Delete
3	sales0003	Static	Edit Delete

5.3.5.2 *Interface Settings*

This page allows the user to set the port type of vlan, common have access and trunk, dot1q - tunnel three modes and native VLAN choose whether the port TX,RX should have a tag.



Interface Settings

Edit Interface Setting

Port Select	Interface VLAN Mode	PVID	Accepted Type	Ingress Filtering	Uplink	TPID
Select Ports	● Hybrid ○ Access ○ Trunk ○ Tunnel	1 (1 - 4094)	● All ○ Tagged ○ Untagged	● Enabled ○ Disabled	○ Enabled ● Disabled	0x8100

Port	Interface VLAN Mode	PVID	Accepted Type	Ingress Filtering	Uplink	TPID
GE1	Trunk	1	All	Enabled	Disabled	0x8100
GE2	Trunk	1	All	Enabled	Disabled	0x8100
GE3	Trunk	1	All	Enabled	Disabled	0x8100
GE4	Trunk	1	All	Enabled	Disabled	0x8100
GE5	Trunk	1	All	Enabled	Disabled	0x8100
GE6	Trunk	1	All	Enabled	Disabled	0x8100
GE7	Trunk	1	All	Enabled	Disabled	0x8100
GE8	Trunk	1	All	Enabled	Disabled	0x8100
GE9	Trunk	1	All	Enabled	Disabled	0x8100
GE10	Trunk	1	All	Enabled	Disabled	0x8100
GE11	Trunk	1	All	Enabled	Disabled	0x8100
GE12	Trunk	1	All	Enabled	Disabled	0x8100
GE13	Trunk	1	All	Enabled	Disabled	0x8100
GE14	Trunk	1	All	Enabled	Disabled	0x8100
GE15	Trunk	1	All	Enabled	Disabled	0x8100
GE16	Trunk	1	All	Enabled	Disabled	0x8100

Port Select : Select one or multipleports to configure.

Interface VLAN Mode: VLAN port mode

Hybrid: Port hybrid model.

Access: Port hybrid model.

Trunk: Port hybrid model.

Tunnel: Port hybrid model.

PVID: VLAN ID for the selected ports.

Accepted Type: Port accepted type.

All: Accept tagged and untagged frames.

Tag Only: Only accept tagged frame.

Untag Only: Only accept untagged frame.

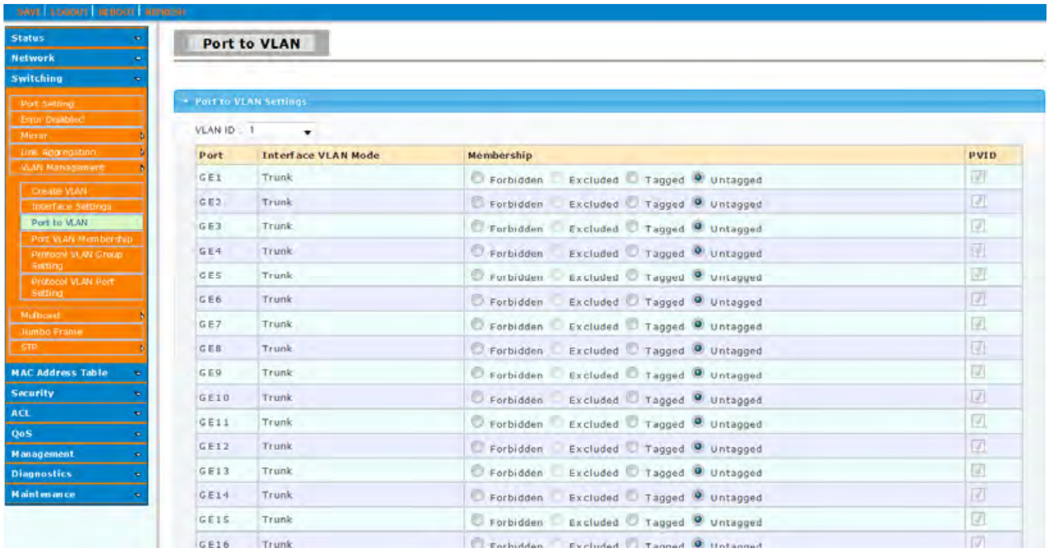
Ingress Filtering: Choose filter port open and close.

Uplink: Select port Uplink open or close.

5.3.5.3 *Port to VLAN*

To display Port to VLAN web page, click Switching > VLAN Management > Port to VLAN

Make port add to VLAN ,select the port’s different behaviors when it works under the VLAN.



Port to VLAN

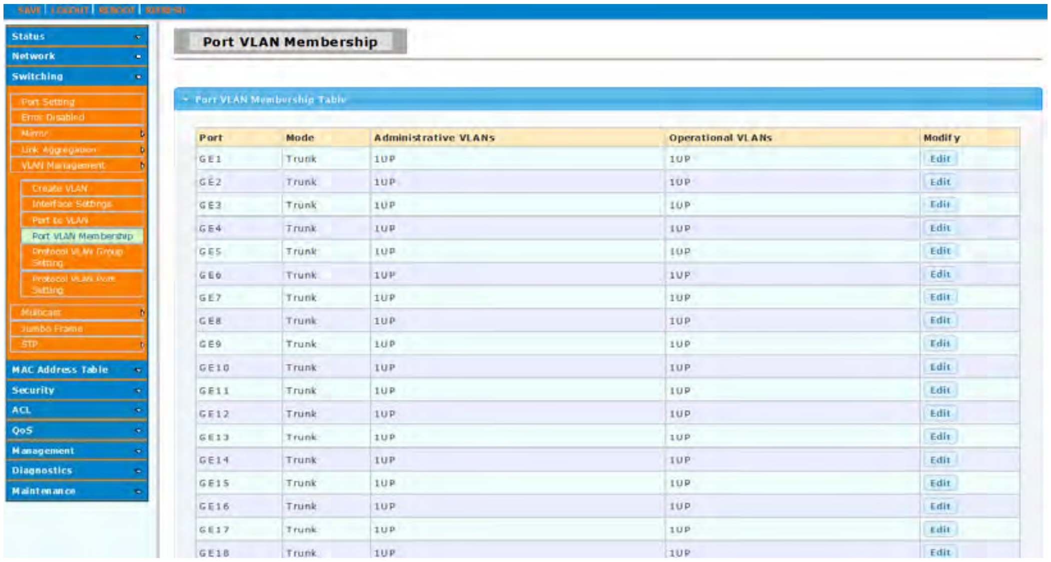
Port to VLAN Settings

VLAN ID : 1

Port	Interface VLAN Mode	Membership	PVID
GE1	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE2	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE3	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE4	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE5	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE6	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE7	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE8	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE9	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE10	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE11	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE12	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE13	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE14	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE15	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑
GE16	Trunk	○ Forbidden ○ Excluded ○ Tagged ● Untagged	☑

5.3.5.4 *Port VLAN Membership*

To display Port VLAN Membership web page, click Switching > VLAN Management > Port VLAN Membership



Port VLAN Membership

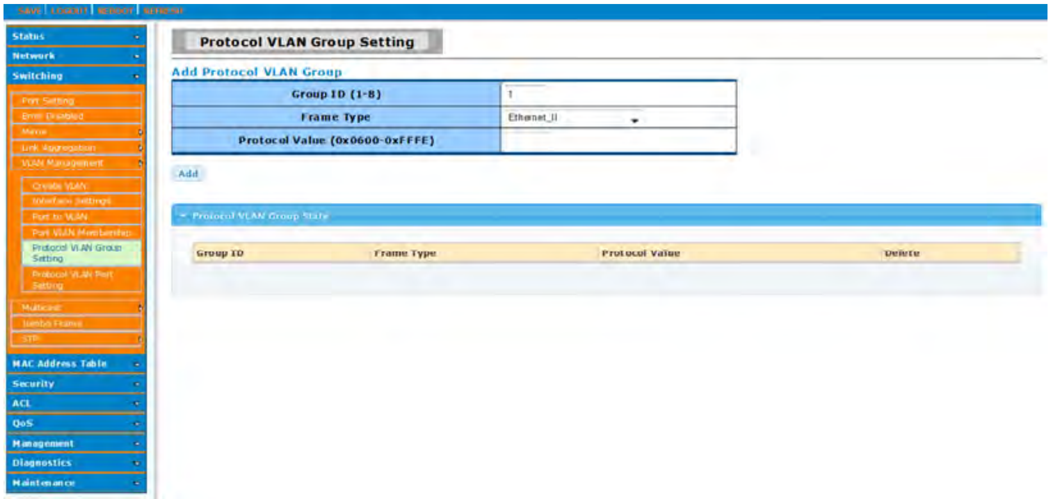
Port VLAN Membership Table

Port	Mode	Administrative VLANs	Operational VLANs	Modify
GE1	Trunk	1UP	1UP	Edit
GE2	Trunk	1UP	1UP	Edit
GE3	Trunk	1UP	1UP	Edit
GE4	Trunk	1UP	1UP	Edit
GE5	Trunk	1UP	1UP	Edit
GE6	Trunk	1UP	1UP	Edit
GE7	Trunk	1UP	1UP	Edit
GE8	Trunk	1UP	1UP	Edit
GE9	Trunk	1UP	1UP	Edit
GE10	Trunk	1UP	1UP	Edit
GE11	Trunk	1UP	1UP	Edit
GE12	Trunk	1UP	1UP	Edit
GE13	Trunk	1UP	1UP	Edit
GE14	Trunk	1UP	1UP	Edit
GE15	Trunk	1UP	1UP	Edit
GE16	Trunk	1UP	1UP	Edit
GE17	Trunk	1UP	1UP	Edit
GE18	Trunk	1UP	1UP	Edit

5.3.5.5 *Protocol VLAN Group Setting*

To display Protocol VLAN Group Setting web page, click Switching> VLAN> Protocol VLAN Group Setting

The VLAN group setting,that is sets the same type message as a group and transmit it in the specific VLAN.



Protocol VLAN Group Setting

Add Protocol VLAN Group

Group ID (1-8)	1
Frame Type	Ethernet_II
Protocol Value (0x0600-0xFFFE)	

Group ID	Frame Type	Protocol Value	Delete

Group ID(1-8) : Enter an ID number of the group, between 1 and 8.

Group Name: This is used to identify the new Protocol VLAN group.Type an alphanumeric string of up to 16 characters.

Frame Type : This function maps packets to protocol-defined VLAN by examining the type octet within the packet header to discover the type of protocol associated with it.

Ethernet_II: packet type is Ethernet version 2.

IEEE802.3_LLC_Other: packet type is 802.3 packet with LLC other header.

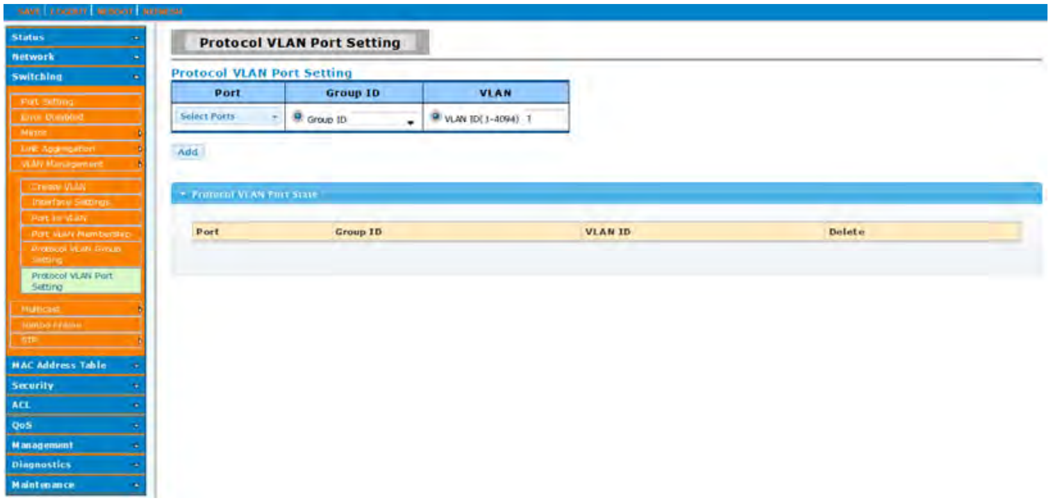
RFC_1042: packet type is RFC 1042 packet.

Protocol Value (0x0600-0xFFFE): Enter the Ether type of the target protocol.

5.3.5.6 *Protocol VLAN Port Setting*

To display Protocol VLAN Port Setting web page, click Switching> VLAN> Protocol VLAN Port Setting

This page is used to divide the port into groups and map it to the VLAN.



Protocol VLAN Port Setting

Protocol VLAN Port Setting

Port	Group ID	VLAN
Select Ports	● Group ID	● VLAN ID(1-4094) 1

Port	Group ID	VLAN ID	Delete

Port: Select the specified ports you wish to configure by selecting the port in this list.

Group: Click the corresponding radio button to select a previously configured Group ID or Group Name.

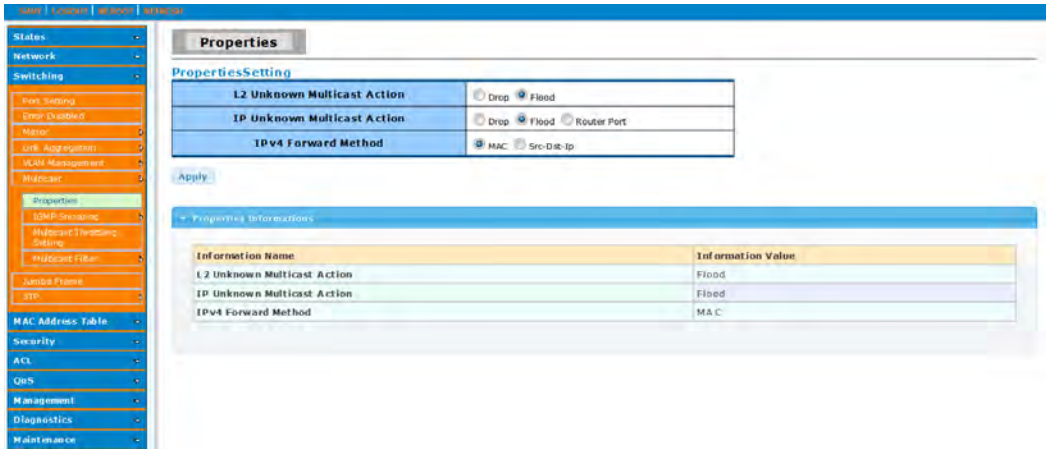
VLAN :Click the corresponding radio button to select a previously configured VLAN ID or VLAN Name.

5.3.6 Multicast

5.3.6.1 *Properties*

To display Properties web page, click **Switching > Multicast > Properties**

This page is used to Set message behavior and iPv4 message forwarding rules.



PropertiesSetting

L2 Unknown Multicast Action	○ Drop ● Flood
IP Unknown Multicast Action	○ Drop ● Flood ○ Router Port
IPv4 Forward Method	● MAC ○ Src-Dst-Ip

Properties Informations

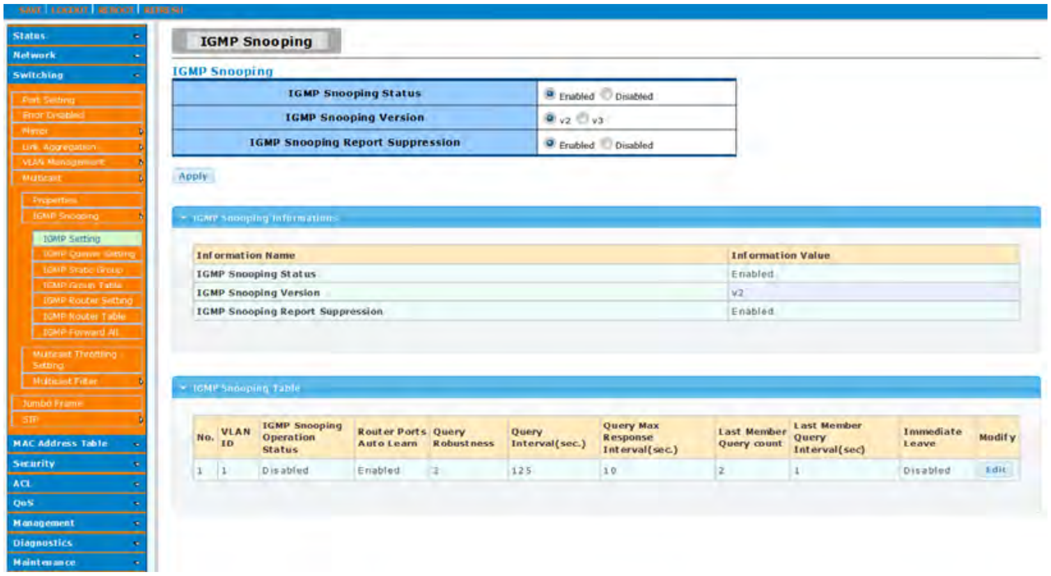
Information Name	Information Value
L2 Unknown Multicast Action	Flood
IP Unknown Multicast Action	Flood
IPv4 Forward Method	MAC

5.3.6.2 *IGMP Snooping*

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

IGMP Setting

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



IGMP Snooping

IGMP Snooping Status	● Enabled ○ Disabled
IGMP Snooping Version	● v2 ○ v3
IGMP Snooping Report Suppression	● Enabled ○ Disabled

IGMP Snooping Informations

Information Name	Information Value
IGMP Snooping Status	Enabled
IGMP Snooping Version	v2
IGMP Snooping Report Suppression	Enabled

IGMP Snooping Table

No.	VLAN ID	IGMP Snooping Operation Status	Router Ports Auto Learn	Query Robustness	Query Interval(sec.)	Query Max Response Interval(sec.)	Last Member Query count	Last Member Query Interval(sec)	Immediate Leave	Modify
1	1	Disabled	Enabled	2	125	10	2	1	Disabled	Edit

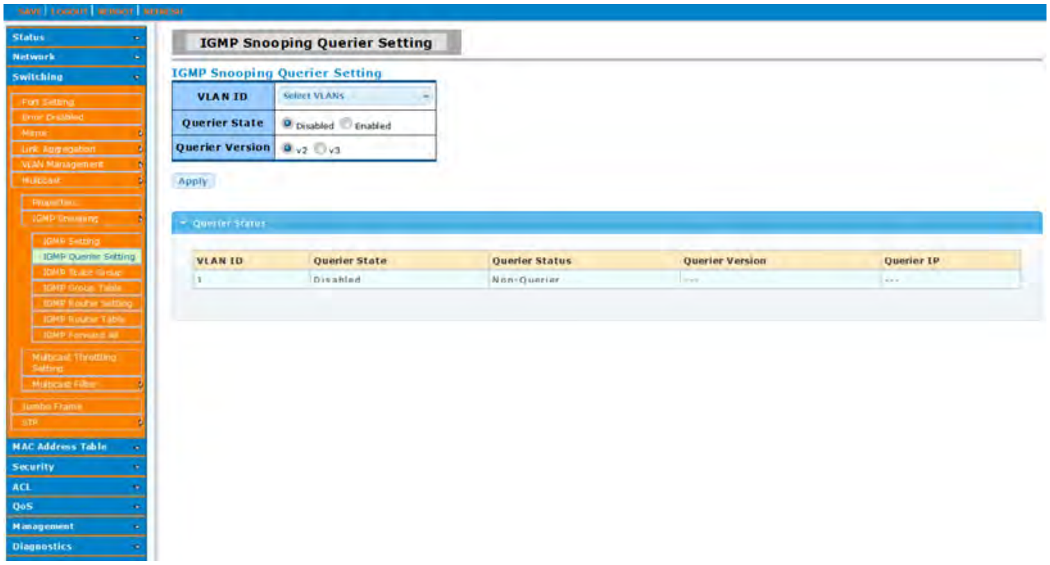
IGMP Snooping: Select the IGMP Snooping enable or disable.

IGMP Snooping Version: Select the IGMP Snooping Version,IGMPv2 or IGMPv3.

IGMP Snooping Report Suppression:Select the IGMP Snooping Report Suppression enable or disable.

IGMP Snooping Querier Setting

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



IGMP Snooping Querier Setting

IGMP Snooping Querier Setting

VLAN ID	Select VLANs
Querier State	● Disabled ○ Enabled
Querier Version	● v2 ○ v3

Querier Status

VLAN ID	Querier State	Querier Status	Querier Version	Querier IP
1	Disabled	Non-Querier	---	---

VLAN ID: Select the VLANs to configure.

Querier State: Set the enabling status of IGMP Querier Election on the chose VLANs.

Enable: Enable IGMP Querier Election.

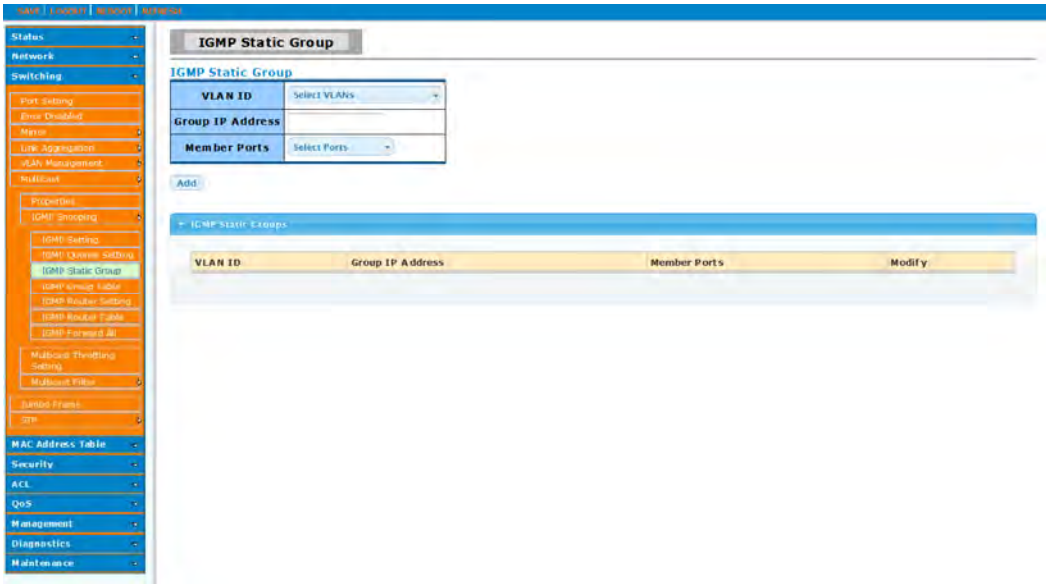
Disable: Disable IGMP Querier Election.

Version:Select the Querier Version,IGMPv2 or IGMPv3

IGMP Static Group

To display IGMP Static Setting web page, click **Switching > Multicast > IGMP Snooping > IGMP Static Group**

This page is used to configure specified ports as static member ports.



IGMP Static Group

IGMP Static Group

VLAN ID	Select VLANs
Group IP Address	
Member Ports	Select Ports

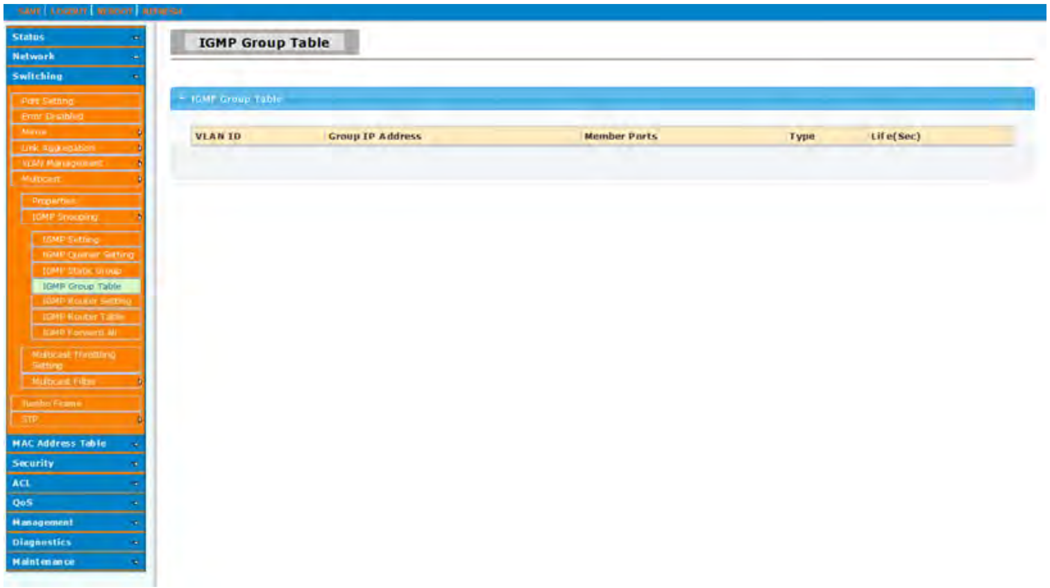
IGMP Static Groups

VLAN ID	Group IP Address	Member Ports	Modify

IGMP Group Table

To display IGMP Group Table web page, click Switching > Multicast > IGMP Snooping > IGMP Group Table

This page is used to display IGMP Group Table statistics information.



IGMP Group Table

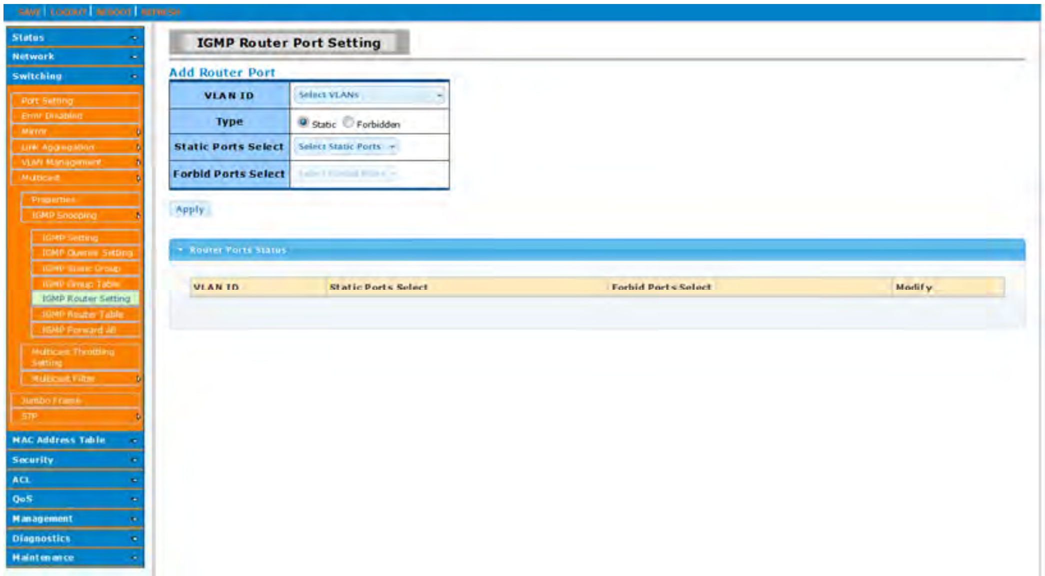
IGMP Group Table

VLAN ID	Group IP Address	Member Ports	Type	Life(Sec)

IGMP Router Port Setting

To display IGMP Router Port Setting web page, click **Switching > Multicast > IGMP Snooping > IGMP Router Port Setting**

This page is used to configure specified ports as static route ports.



IGMP Router Port Setting

Add Router Port

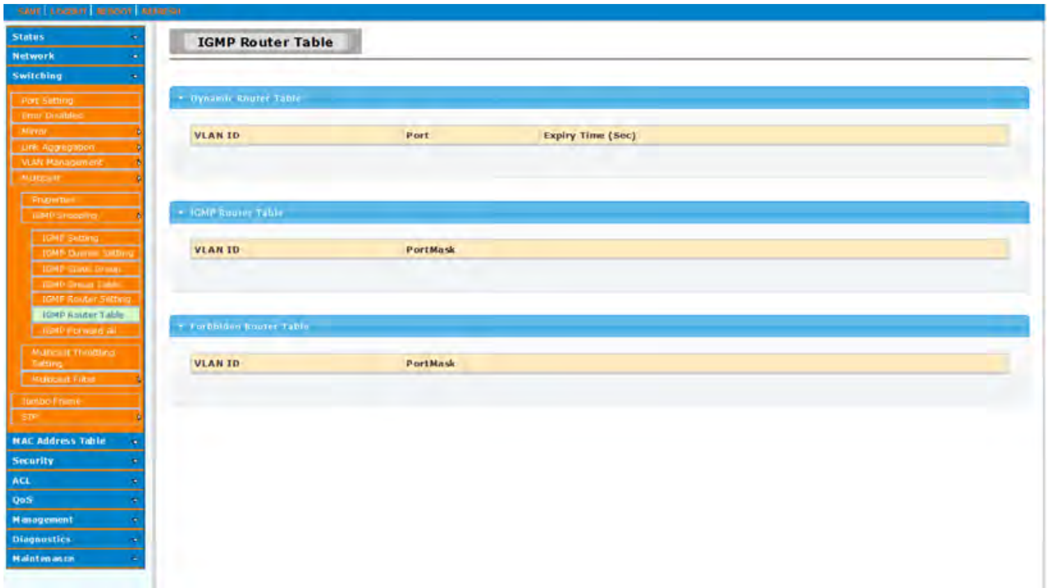
VLAN ID	Select VLANs
Type	● Static ○ Forbidden
Static Ports Select	Select Static Ports
Forbid Ports Select	Select Forbid Ports

VLAN ID	Static Ports Select	Forbid Ports Select	Modify

IGMP Router Table

To display IGMP Router Table web page, click **Switching > Multicast > IGMP Snooping > IGMP Router Table**

This page is used to display IGMP Router Table statistics information.



IGMP Router Table

Dynamic Router Table

VLAN ID	Port	Expiry Time (Sec)

IGMP Router Table

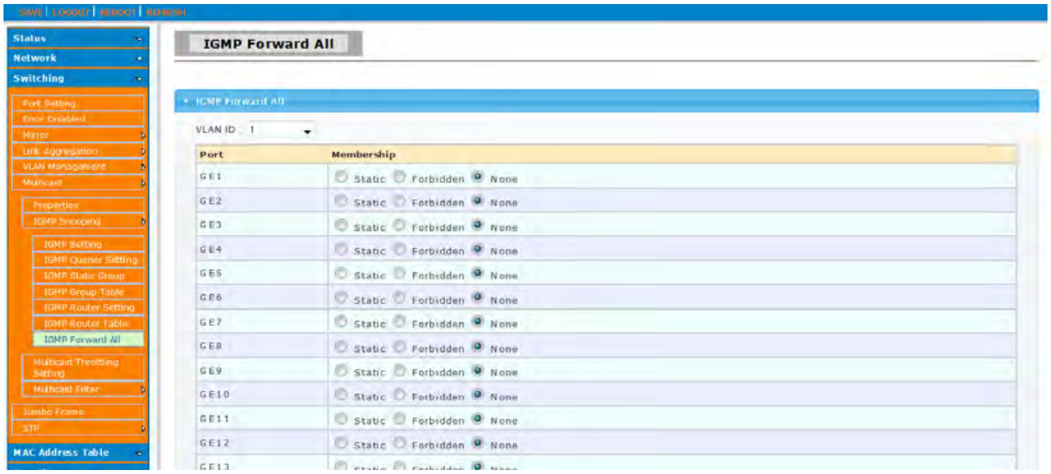
VLAN ID	PortMask

Forbidden Router Table

VLAN ID	PortMask

IGMP Forward All

To display IGMP Forward All web page, click **Switching > Multicast > IGMP Snooping > IGMP Forward All**



IGMP Forward All

IGMP Forward All

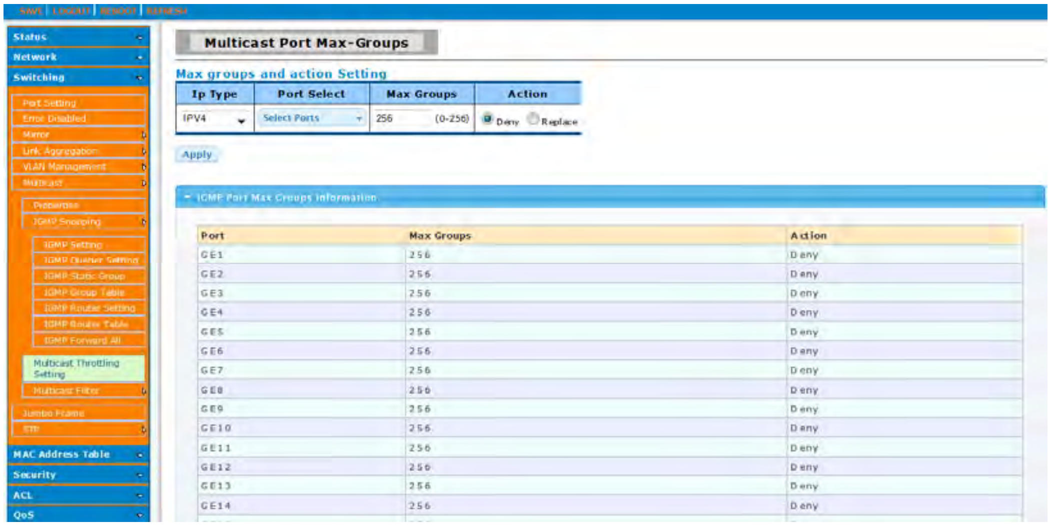
VLAN ID : 1

Port	Membership
GE1	○ Static ○ Forbidden ● None
GE2	○ Static ○ Forbidden ● None
GE3	○ Static ○ Forbidden ● None
GE4	○ Static ○ Forbidden ● None
GE5	○ Static ○ Forbidden ● None
GE6	○ Static ○ Forbidden ● None
GE7	○ Static ○ Forbidden ● None
GE8	○ Static ○ Forbidden ● None
GE9	○ Static ○ Forbidden ● None
GE10	○ Static ○ Forbidden ● None
GE11	○ Static ○ Forbidden ● None
GE12	○ Static ○ Forbidden ● None
GE13	○ Static ○ Forbidden ● None

5.3.6.3 *Multicast Port Max-Groups*

To display Multicast Port Max-Groups web page, click Switching > Multicast >Multicast Port Max-Groups

This page is used to Limit the port can join one of the biggest Multicast instance.



Multicast Port Max-Groups

Max groups and action Setting

Ip Type	Port Select	Max Groups	Action
IPV4	Select Ports	256 (0-256)	● Deny ○ Replace

IGMP Port Max Groups Information

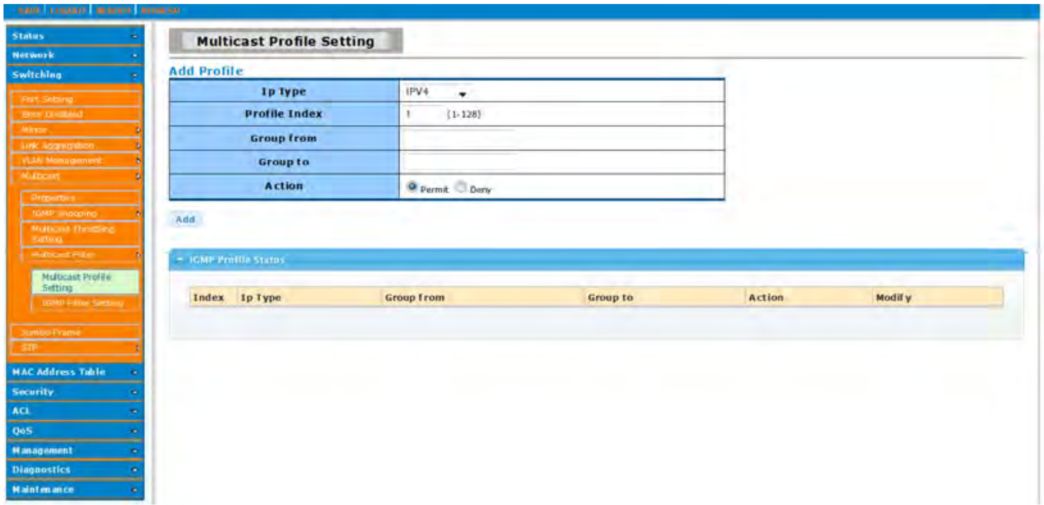
Port	Max Groups	Action
GE1	256	Deny
GE2	256	Deny
GE3	256	Deny
GE4	256	Deny
GE5	256	Deny
GE6	256	Deny
GE7	256	Deny
GE8	256	Deny
GE9	256	Deny
GE10	256	Deny
GE11	256	Deny
GE12	256	Deny
GE13	256	Deny
GE14	256	Deny

Multicast Filter

This page allow user to Create filter instance.

Multicast Profile Setting

To display Multicast Profile Setting web page, click Switching > Multicast >Multicast Filter > Multicast Profile Setting



Multicast Profile Setting

Add Profile

Ip Type	IPV4
Profile Index	1 (1-128)
Group from	
Group to	
Action	● Permit ○ Deny

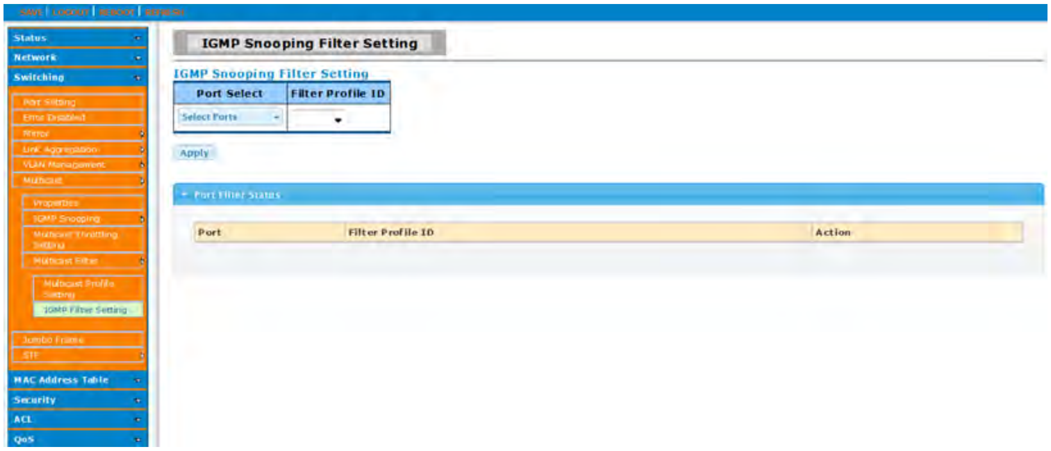
IGMP Profile Status

Index	Ip Type	Group from	Group to	Action	Modify

Multicast Profile Setting

To display IGMP Filter Setting web page, click Switching > Multicast > Multicast Filter > IGMP Filter Setting

This page is used to Filter on the port to bind to that instance.



IGMP Snooping Filter Setting

IGMP Snooping Filter Setting

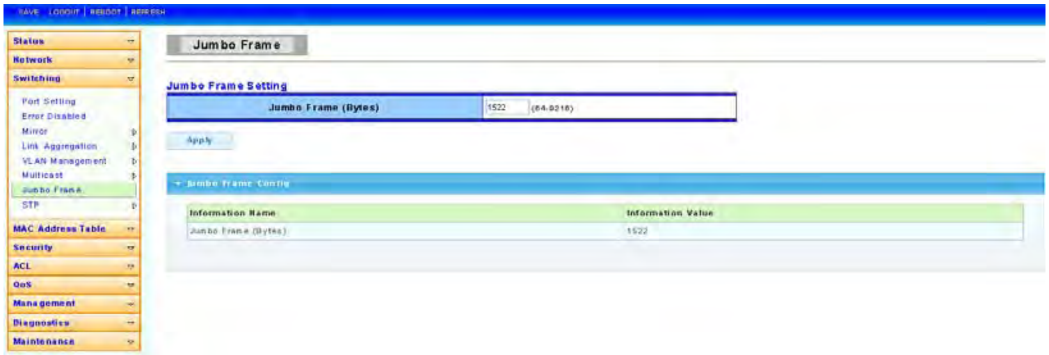
Port Select	Filter Profile ID
Select Ports	

Port Filter Status

Port	Filter Profile ID	Action

5.3.7 Jumbo Frame

To display Jum bo Frame web page, click **Switching > Jumbo Frame**



Jumbo Frame

Jumbo Frame Setting

Jumbo Frame (Bytes)	1522 (64-9216)

Jumbo Frame Config

Information Name	Information Value
Jumbo Frame (Bytes)	1522

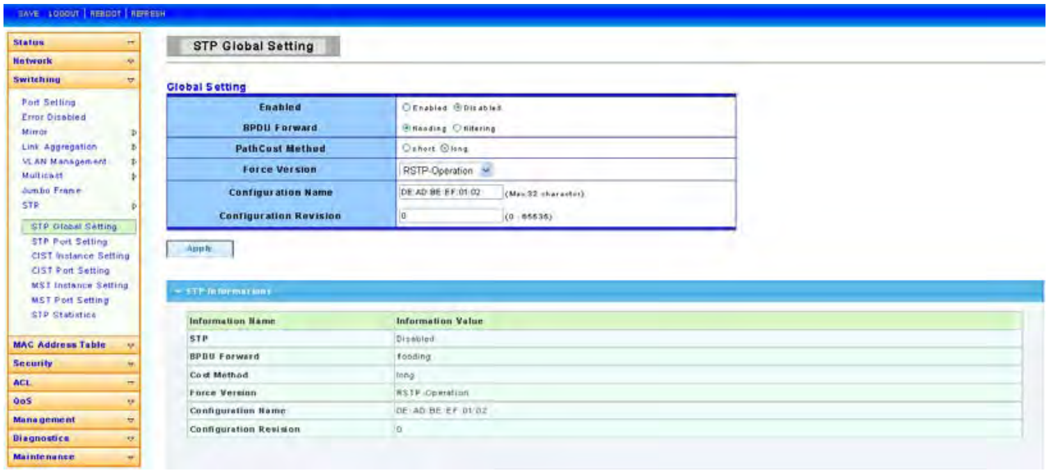
Jumbo Frame: Jumbo frame size. The valid range is 0 bytes – 9216 bytes.

STP

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

STP Global Setting

To display STP Global Setting web page, click **Switching > STP > STP Global Setting**



STP Global Setting

Global Setting

Enabled	○ Enabled ● Disabled
BPDU Forward	● flooding ○ filtering
PathCost Method	○ short ● long
Force Version	RSTP-Operation
Configuration Name	DE:AD:BE:EF:01:02 (Max 32 character)
Configuration Revision	0 (0 - 65535)

STP Informations

Information Name	Information Value
STP	Disabled
BPDU Forward	flooding
Cost Method	long
Force Version	RSTP-Operation
Configuration Name	DE:AD:BE:EF:01:02
Configuration Revision	0

Enabled: Set the STP status to be enabled/disabled on the Switch.

BPDU Forward: Choose BPDU packets is a flood or filtering

Path Cost Method： Choose the path overhead is short or long

Force Version: Select the operating mode of STP.

STP-Compatible: 802.1D STP operation.

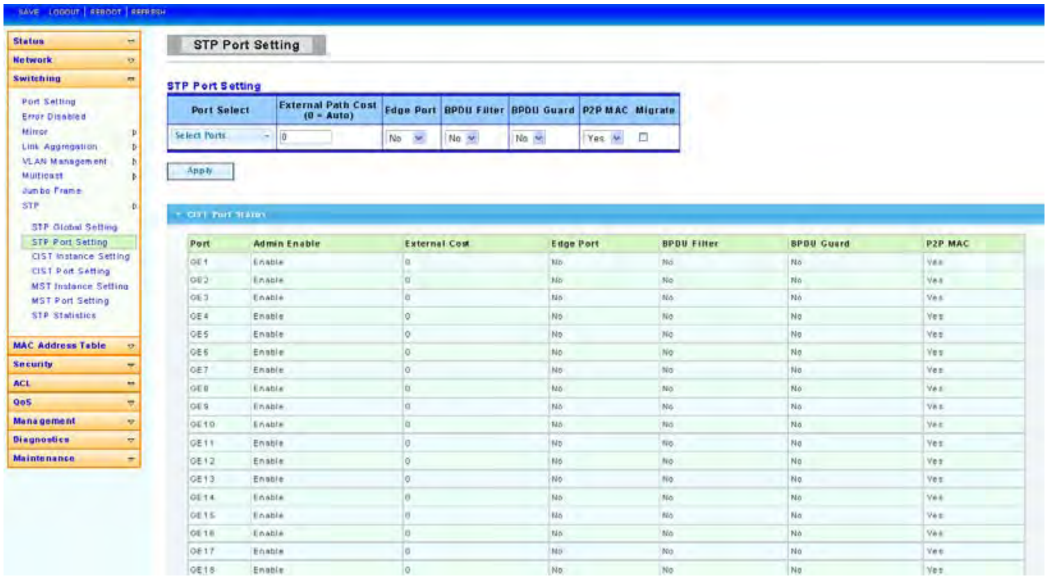
RSTP-Operation: 802.1w operation.

MSTP-Operation: 802.1s operation.

Configuration Revision: Set the Revision of the Configuration Identification. (Range:0-65535).

STP Port Setting

To display STP Port Setting web page, click **Switching > STP > STP Port Setting**



STP Port Setting

STP Port Setting

Port Select	External Path Cost (0 = Auto)	Edge Port	BPDU Filter	BPDU Guard	P2P MAC	Migrate
Select Ports	0	No	No	No	Yes	□

CIST Port Status

Port	Admin Enable	External Cost	Edge Port	BPDU Filter	BPDU Guard	P2P MAC
GE1	Enable	0	No	No	No	Yes
GE2	Enable	0	No	No	No	Yes
GE3	Enable	0	No	No	No	Yes
GE4	Enable	0	No	No	No	Yes
GE5	Enable	0	No	No	No	Yes
GE6	Enable	0	No	No	No	Yes
GE7	Enable	0	No	No	No	Yes
GE8	Enable	0	No	No	No	Yes
GE9	Enable	0	No	No	No	Yes
GE10	Enable	0	No	No	No	Yes
GE11	Enable	0	No	No	No	Yes
GE12	Enable	0	No	No	No	Yes
GE13	Enable	0	No	No	No	Yes
GE14	Enable	0	No	No	No	Yes
GE15	Enable	0	No	No	No	Yes
GE16	Enable	0	No	No	No	Yes
GE17	Enable	0	No	No	No	Yes
GE18	Enable	0	No	No	No	Yes

Port Select: Select the port list to specify which ports should apply this setting.

External Path: Cost Set the port's contribution, when it is the Root Port, to the Root Path Cost for the Bridge. (0 means `Auto`).

Edge Port: Set the edge port configuration.

No: Force to false state (as link to a bridge).

Yes: Force to true state (as link to a host).

BPDU Filter: Set the BPDU Filter configuration.

No: Disable BPDU filter function.

Yes: Enable BPDU filter function.

To avoid transmitting BPDU from the specified ports.

BPDU Guard : Set the BPDU Guard configuration.

No: Disable BPDU guard function.

Yes: Enable BPDU filter function.

To drop directly the received BPDU from the specified ports.

P2P MAC: Set the Point-to-Point port configuration.

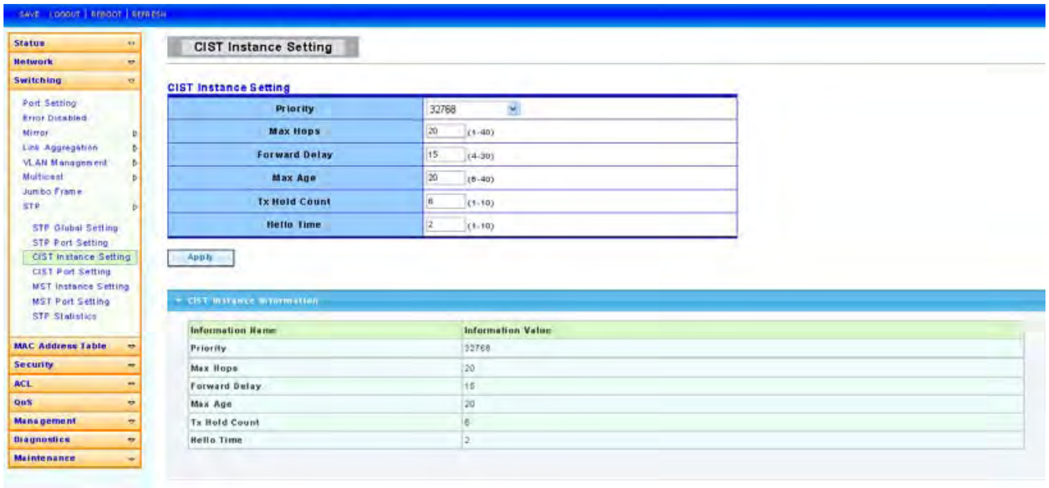
No: Force to false state.

Yes: Force to true state.

Migrate: Force to try to use the new MST/RST BPDUs, and hence to test the hypothesis that all legacy systems that do not understand the new BPDU formats have been removed from the LAN segment on the port(s).

CIST Instance Setting

To display CIST Instance Setting web page, click **Switching > STP > CIST Instance Setting**



CIST Instance Setting

CIST Instance Setting

Priority	32768
Max Hops	20 (1-40)
Forward Delay	15 (4-30)
Max Age	20 (6-40)
Tx Hold Count	6 (1-10)
Hello Time	2 (1-10)

CIST Instance Information

Information Name	Information Value
Priority	32768
Max Hops	20
Forward Delay	15
Max Age	20
Tx Hold Count	6
Hello Time	2

Priority: Set the Bridge Priority in the specified CIST instance

Max Hops: Set the value of the maximum number of hops in the region.

Forward Delay: Set the delay time an interface takes to converge from blocking state to forwarding state.

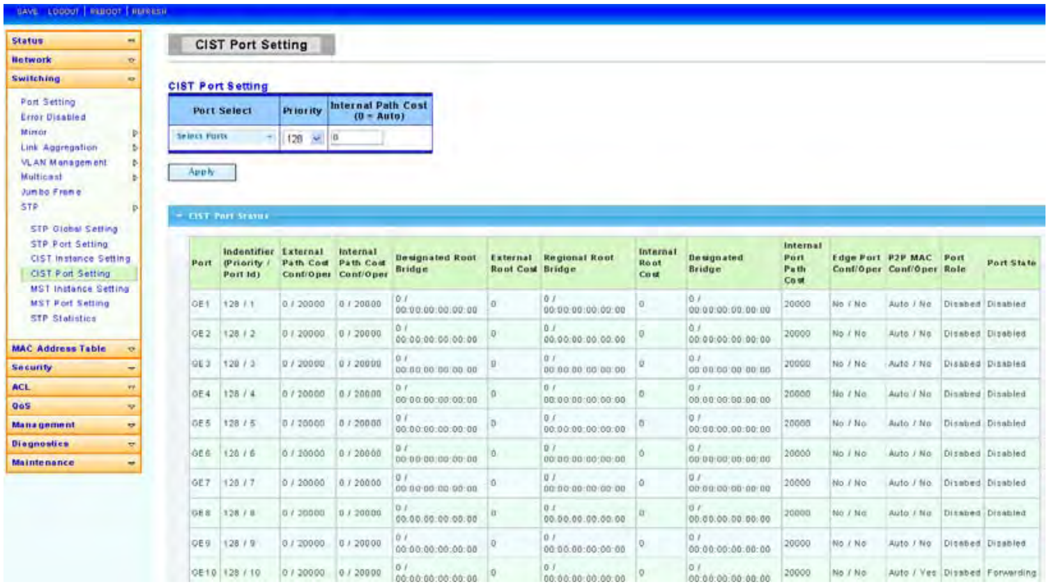
Max Age: Set the time any switch should wait before trying to change the STP topology after unhearing Hello BPDU.

Tx Hold Count: Set the Transmit Hold Count used to limit BPDIU transmission rate.

Hello Time: Set the interval between periodic transmissions of BPDU by Designated Ports.

CIST Port Setting

To display CIST Port Setting web page, click **Switching > STP > CIST Port Setting**



CIST Port Setting

CIST Port Setting

Port Select	Priority	Internal Path Cost (0 = Auto)
Select Ports	128	0

CIST Port Status

Port	Indentifier (Priority / Port Id)	External Path Cost Conf/Oper	Internal Path Cost Conf/Oper	Designated Root Bridge	External Root Cost	Regional Root Bridge	Internal Root Cost	Designated Bridge	Internal Port Path Cost	Edge Port Conf/Oper	P2P MAC Conf/Oper	Port Role	Port State
GE1	128 / 1	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE2	128 / 2	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE3	128 / 3	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE4	128 / 4	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE5	128 / 5	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE6	128 / 6	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE7	128 / 7	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE8	128 / 8	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE9	128 / 9	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / No	Disabed	Disabled
GE10	128 / 10	0 / 20000	0 / 20000	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	0	0 / 00:00:00:00:00:00	20000	No / No	Auto / Yes	Disabed	Forwarding

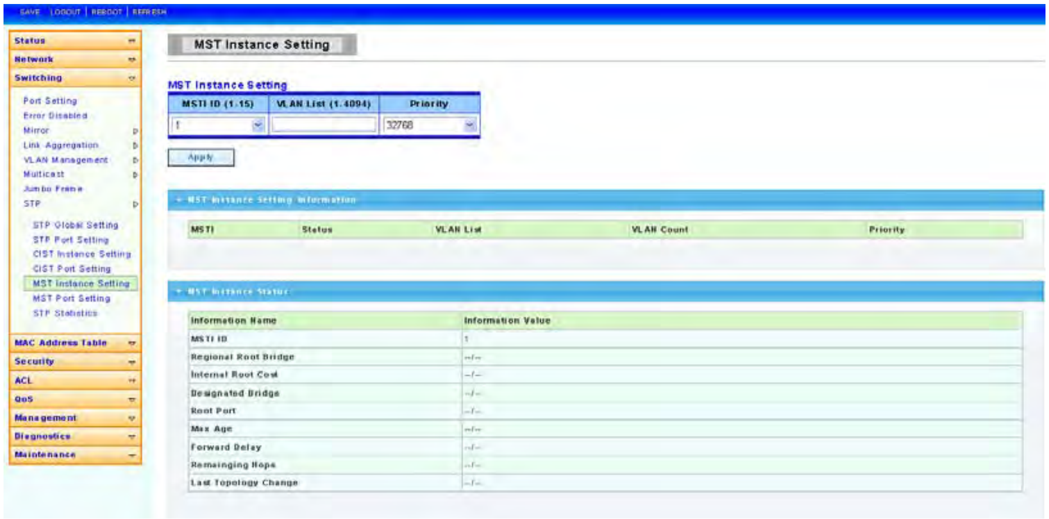
Port Select : Select the port list to specify which ports should apply this setting.

Priority: Set the Port Priority to the selected ports in the specified CIST instance.

Internal Path Cost: Set the Internal Path Cost to the selected ports in the specified CIST instance. (0 means `Auto`)

MST Instance Setting

To display MST Instance Setting web page, click **Switching > STP > MST Instance Setting**



MST Instance Setting

MST Instance Setting

MSTI ID (1-15)	VLAN List (1-4094)	Priority
1		32768

MST Instance Setting Information

MSTI	Status	VLAN List	VLAN Count	Priority

MST Instance Status

Information Name	Information Value
MSTI ID	1
Regional Root Bridge	--/--
Internal Root Cost	--/--
Designated Bridge	--/--
Root Port	--/--
Max Age	--/--
Forward Delay	--/--
Remainging Hops	--/--
Last Topology Change	--/--

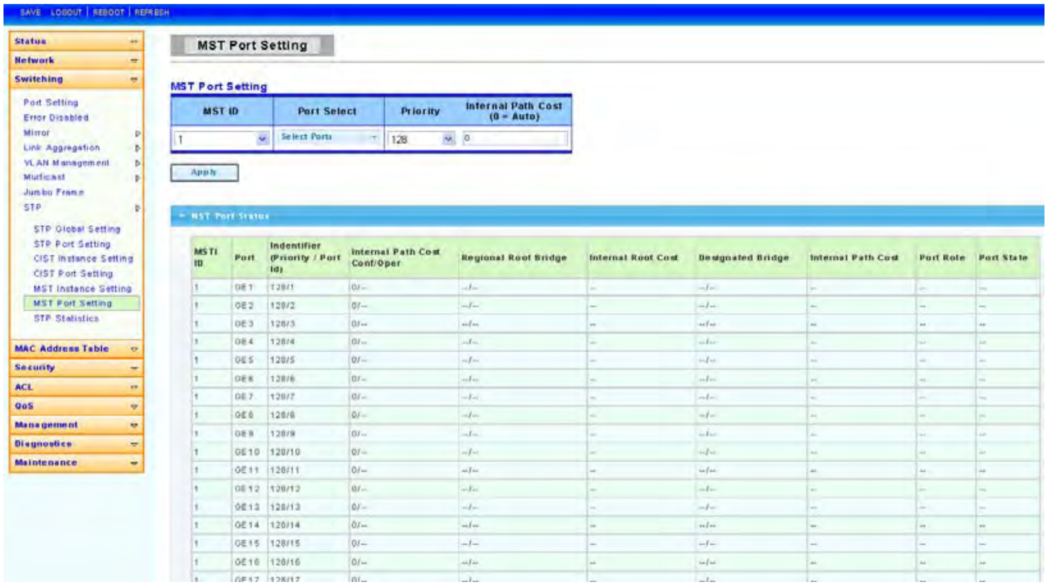
MSTI ID: Set the MSTI ID to specified the MST instance.

VLAN List: Set the VLAN List.

Priority: Set the Bridge Priority in the specified MST instance.

MST Port Setting

To display MST Port Setting web page, click **Switching > STP > MST Port Setting**



MST Port Setting

MST ID	Port Select	Priority	Internal Path Cost (0 = Auto)
1	Select Ports	128	0

MSTI ID	Port	Indentifier (Priority / Port Id)	Internal Path Cost Conf/Oper	Regional Root Bridge	Internal Root Cost	Designated Bridge	Internal Path Cost	Port Role	Port State
1	GE 1	128/1	0/--	--/--	--	--/--	--	--	--
1	GE 2	128/2	0/--	--/--	--	--/--	--	--	--
1	GE 3	128/3	0/--	--/--	--	--/--	--	--	--
1	GE 4	128/4	0/--	--/--	--	--/--	--	--	--
1	GE 5	128/5	0/--	--/--	--	--/--	--	--	--
1	GE 6	128/6	0/--	--/--	--	--/--	--	--	--
1	GE 7	128/7	0/--	--/--	--	--/--	--	--	--
1	GE 8	128/8	0/--	--/--	--	--/--	--	--	--
1	GE 9	128/9	0/--	--/--	--	--/--	--	--	--
1	GE 10	128/10	0/--	--/--	--	--/--	--	--	--
1	GE 11	128/11	0/--	--/--	--	--/--	--	--	--
1	GE 12	128/12	0/--	--/--	--	--/--	--	--	--
1	GE 13	128/13	0/--	--/--	--	--/--	--	--	--
1	GE 14	128/14	0/--	--/--	--	--/--	--	--	--
1	GE 15	128/15	0/--	--/--	--	--/--	--	--	--
1	GE 16	128/16	0/--	--/--	--	--/--	--	--	--
1	GE 17	128/17	0/--	--/--	--	--/--	--	--	--

MST ID: Set the MSTI ID to specify MST instance.

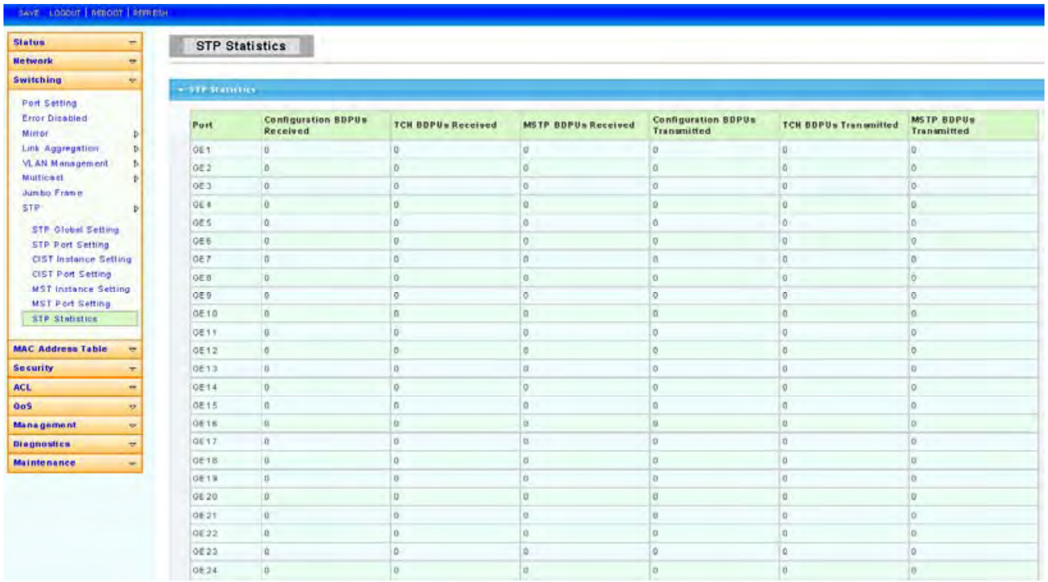
Port Select : Select the port list to specify which ports should apply this setting.

Priority: Set the Port Priority to the selected ports in the specified MST instance.

Internal Path Cost: Set the Internal Path Cost tot he selected ports in the specified MST instance. (0 means `Auto`)

STP Statistics

To display STP Statistics web page, click **Switching > STP > STP Statistics**



STP Statistics

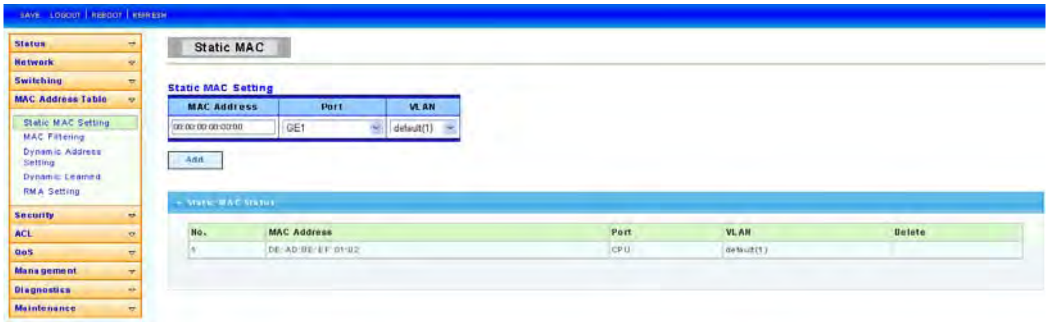
STP Statistics

Port	Configuration BDPUs Received	TCH BDPUs Received	MSTP BDPUs Received	Configuration BDPUs Transmitted	TCH BDPUs Transmitted	MSTP BDPUs Transmitted
GE 1	0	0	0	0	0	0
GE 2	0	0	0	0	0	0
GE 3	0	0	0	0	0	0
GE 4	0	0	0	0	0	0
GE 5	0	0	0	0	0	0
GE 6	0	0	0	0	0	0
GE 7	0	0	0	0	0	0
GE 8	0	0	0	0	0	0
GE 9	0	0	0	0	0	0
GE 10	0	0	0	0	0	0
GE 11	0	0	0	0	0	0
GE 12	0	0	0	0	0	0
GE 13	0	0	0	0	0	0
GE 14	0	0	0	0	0	0
GE 15	0	0	0	0	0	0
GE 16	0	0	0	0	0	0
GE 17	0	0	0	0	0	0
GE 18	0	0	0	0	0	0
GE 19	0	0	0	0	0	0
GE 20	0	0	0	0	0	0
GE 21	0	0	0	0	0	0
GE 22	0	0	0	0	0	0
GE 23	0	0	0	0	0	0
GE 24	0	0	0	0	0	0

5.4 MAC ADDRESS TABLE

Static Mac Setting

To display Static Mac Setting web page, click **Mac Address Table > Static Mac Setting**



Static MAC Setting

MAC Address	Port	VLAN
00:00:00:00:00:00	GE1	default(1)

No.	MAC Address	Port	VLAN	Delete
1	DE:AD:BE:EF:01:02	CPU	default(1)	

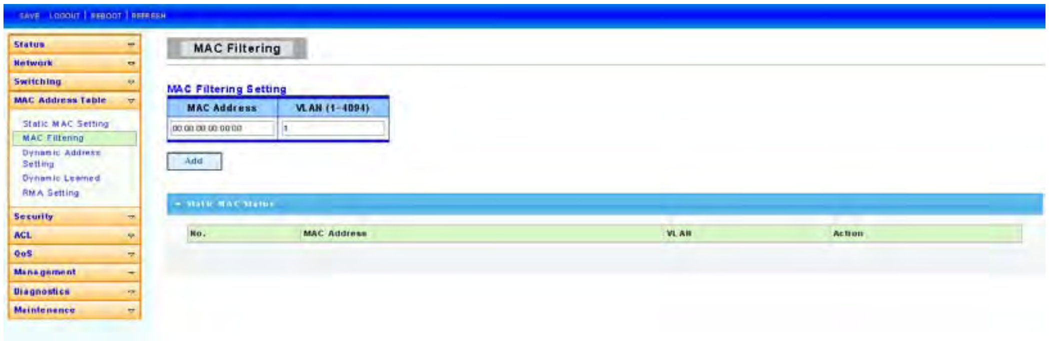
MAC Address: The MAC address to which packets will be statically forwarded. If Type is unicast, enter unicast MAC address in this field;If Type is multicast, enter multicast MAC address in this field.

Port: If Type is unicast, select the port number of the MAC entry; If Type is multicast, select the port list of the MAC entry.

VLAN: The VLAN ID number of the VLAN on which the above MAC address resides.

MAC Filtering

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



MAC Filtering Setting

MAC Address	VLAN (1-4094)
00:00:00:00:00:00	1

No.	MAC Address	VLAN	Action

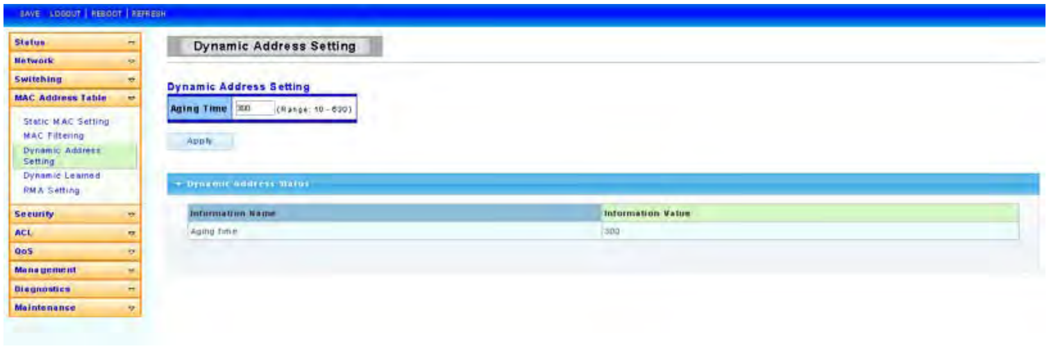
MAC Address: The MAC address to which packets will be filtered. This must be a unicast MAC address.

VLAN: The VLAN ID number of the VLAN on which the above MAC address resides.

Dynamic Address Setting

To display Dynamic Address Setting web page, click **Mac Address Table > Dynamic Address Setting**

This page is used to set the MAC address of the aging time to study



Dynamic Address Setting

Dynamic Address Setting

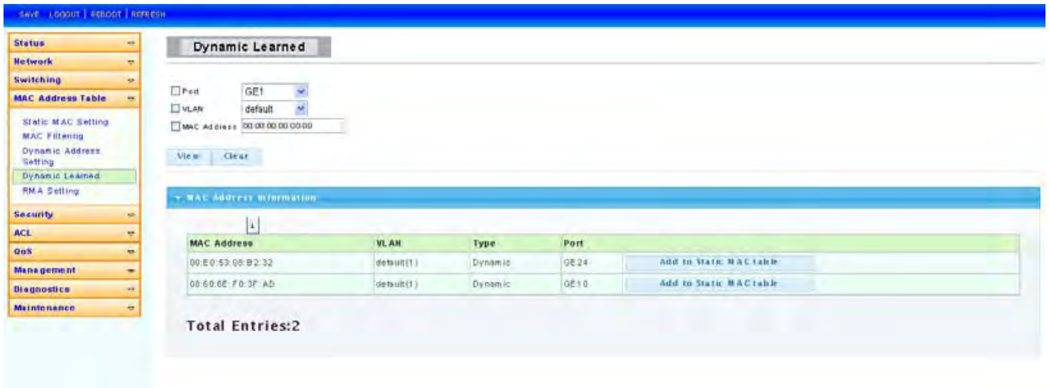
Aging Time 300 (Range: 10 - 630)

Information Name	Information Value
Aging time	300

Aging Time: Set the time needed for aging

Dynamic Learned

To display Dynamic Learned web page, click **Mac Address Table > Dynamic Learned**



Dynamic Learned

□ Port GE1

□ VLAN default

□ MAC Address 00:00:00:00:00:00

MAC Address	VLAN	Type	Port	
00:E0:53:08:B2:32	default(1)	Dynamic	GE24	Add to Static MAC table
00:60:6E:F0:3F:AD	default(1)	Dynamic	GE10	Add to Static MAC table

Total Entries:2

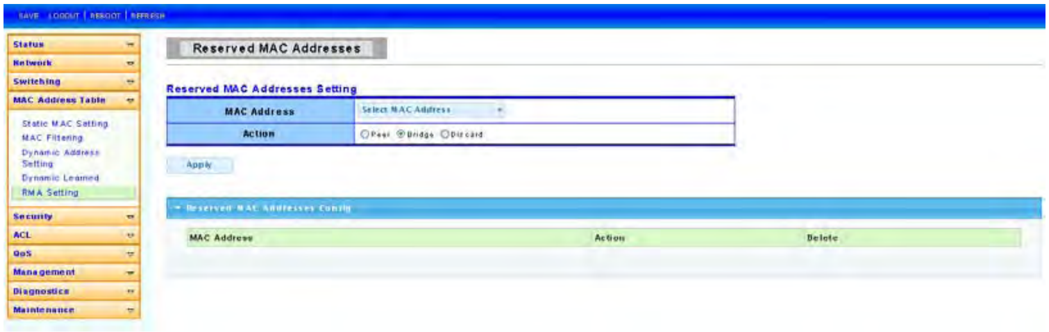
Port: Select the port number to show or clear dynamic MAC entries. If not select any port, VLAN and MAC address, the whole dynamic MAC table will be displayed or cleared.

VLAN: Select the VLAN to show or clear dynamic MAC entries. If not select any port, VLAN and MAC address, the whole dynamic MAC table will be displayed or cleared.

MAC Address: Select the MAC address to show or clear dynamic MAC entries. If not select any port, VLAN and MAC address, the whole dynamic MAC table will be displayed or cleared.

RMA MAC Address

To display RMA MAC Address web page, click **Mac Address Table > RMA MAC Address**



Reserved MAC Addresses

Reserved MAC Addresses Setting

MAC Address	Select MAC Address
Action	○ Peer ● Bridge ○ Discard

Reserved MAC Addresses Config

MAC Address	Action	Delete

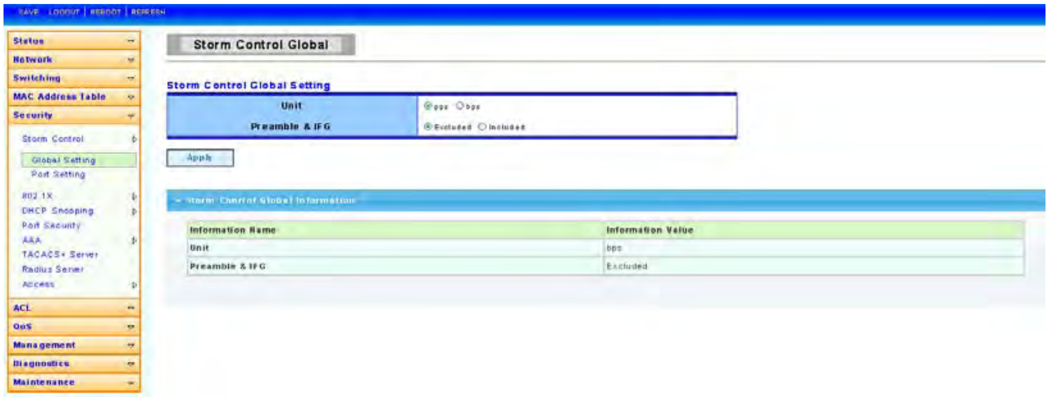
5.5 SECURITY

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

Storm Control

Global Setting

To display Global Setting web page, click **Security > Storm Control > Global Setting**



Storm Control Global

Storm Control Global Setting

Unit: ● pps ○ bps

Preamble & IFG: ● Excluded ○ Included

Storm Control Global Information

Information Name	Information Value
Unit	bps
Preamble & IFG	Excluded

Unit: Choose to storm control unit is the pps or bps

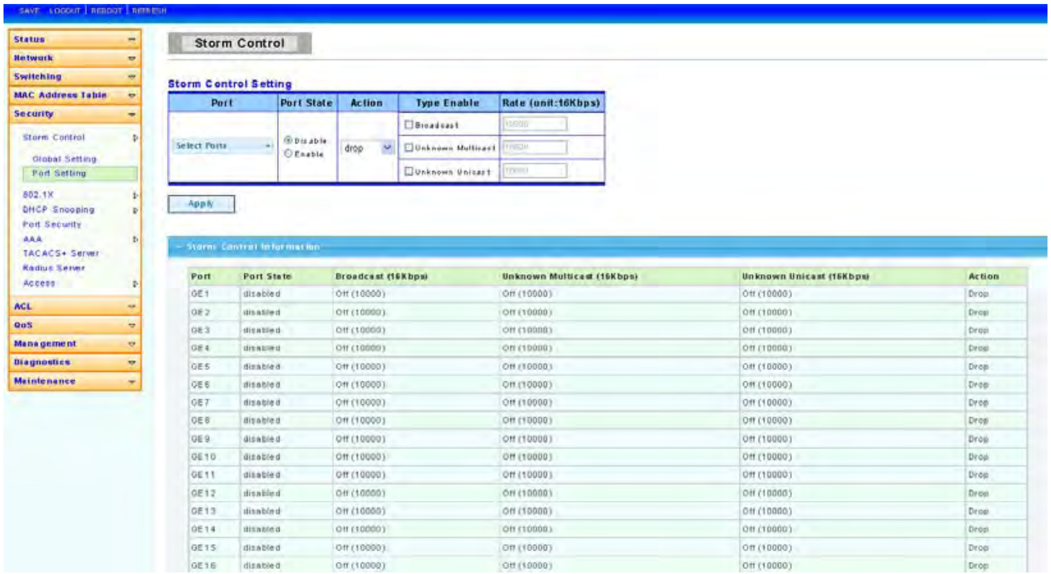
Preamble & IFG: Select the rate calculates w/o preamble & IFG (20 bytes).

Excluded: exclude preamble & IFG (20 bytes) when count ingress storm control rate.

Included: include preamble & IFG (20 bytes) when count ingress storm control rate.

Port Setting

To display Port Setting web page, click **Security > Storm Control > Port Setting**



Storm Control

Storm Control Setting

Port	Port State	Action	Type Enable	Rate (unit:16Kbps)
Select Ports	● Disable ○ Enable	drop	□ Broadcast □ Unknown Multicast □ Unknown Unicast	10000 10000 10000

Storm Control Information

Port	Port State	Broadcast (16Kbps)	Unknown Multicast (16Kbps)	Unknown Unicast (16Kbps)	Action
GE1	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE2	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE3	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE4	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE5	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE6	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE7	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE8	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE9	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE10	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE11	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE12	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE13	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE14	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE15	disabled	Off (10000)	Off (10000)	Off (10000)	Drop
GE16	disabled	Off (10000)	Off (10000)	Off (10000)	Drop

Port: Select the setting ports.

Type Enable: Select the type of storm control.

Broadcast: Broadcast packet.

Unknown Multicast: Unknown multicast packet State.

Unknown Unicast: Unknown unicast packet.

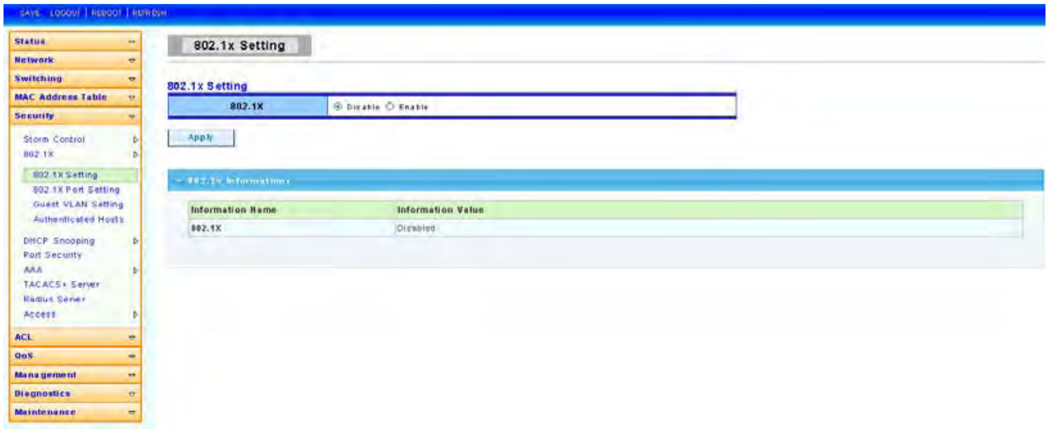
Rate: Value of storm control rate, Unit: pps (packet per-second) or Kbps (Kbits per-second) depends on global mode setting. The range is from 0 to 1000000.

802.1X

802.1x is based on the Client/Server access control and authentication protocol. It can restrict the unauthorized users or devices to connect the access port visit the LAN/WLAN. Before getting the mission from the switch or LAN, the 802.1x will check the users or devices that connect with the switch ports. Before the devices or users pass the exam, it only accept the EAPoL data connect with the switch; but after it passes it, the ordinary data all can be transmitted through Ethernet ports.

802.1X Setting

To display 802.1X Setting web page, click **Security > 802.1X > 802.1X Setting**



802.1x Setting

802.1x Setting

802.1X	● Disable ○ Enable

802.1x Information

Information Name	Information Value
802.1X	Disabled

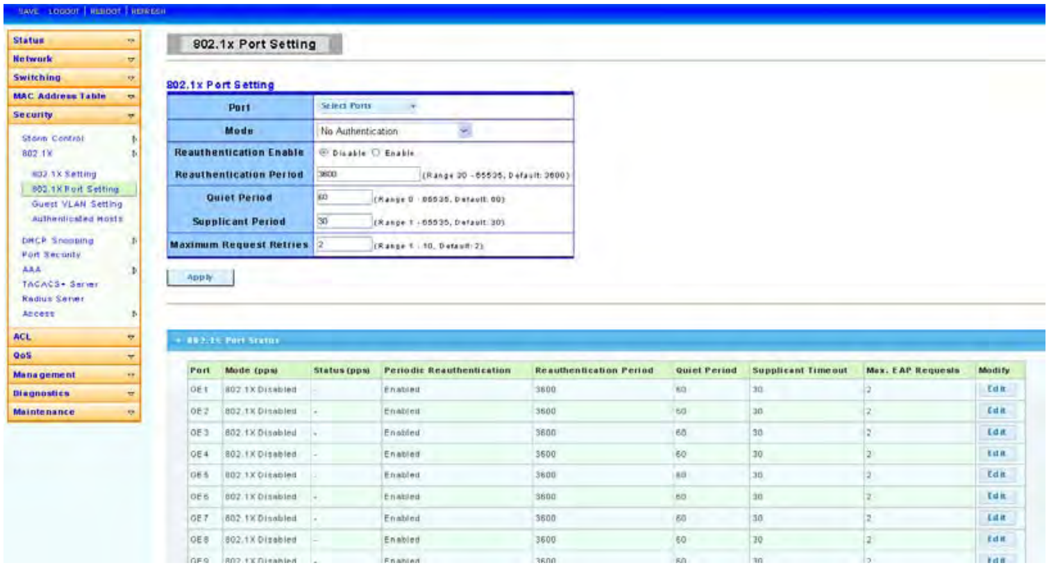
802.1X: Set the enabling status of 802.1X functionality.

Enable: Enable 802.1X.

Disable: Disable 802.1X.

802.1X Port Setting

To display 802.1X Port Setting web page, click **Security > 802.1X > 802.1X Port Setting**



802.1x Port Setting

802.1x Port Setting

Port	Select Ports
Mode	No Authentication
Reauthentication Enable	● Disable ○ Enable
Reauthentication Period	3600 (Range 30 - 65535, Default: 3600)
Quiet Period	60 (Range 0 - 65535, Default: 60)
Supplicant Period	30 (Range 1 - 65535, Default: 30)
Maximum Request Retries	2 (Range 1 - 10, Default: 2)

802.1X Port Status

Port	Mode (pps)	Status (pps)	Periodic Reauthentication	Reauthentication Period	Quiet Period	Supplicant Timeout	Max. EAP Requests	Modify
GE1	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE2	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE3	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE4	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE5	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE6	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE7	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE8	802.1X Disabled	-	Enabled	3600	60	30	2	Edit
GE9	802.1X Disabled	-	Enabled	3600	60	30	2	Edit

Port: Select the ports to configure their authentication mode.

Mode: The authentication mode.

Force Unauthorized: Force this port to be unconditional unauthorized.

Force Authorized: Force this port to be unconditional authorized.

Authentication: 802.1X authentication.

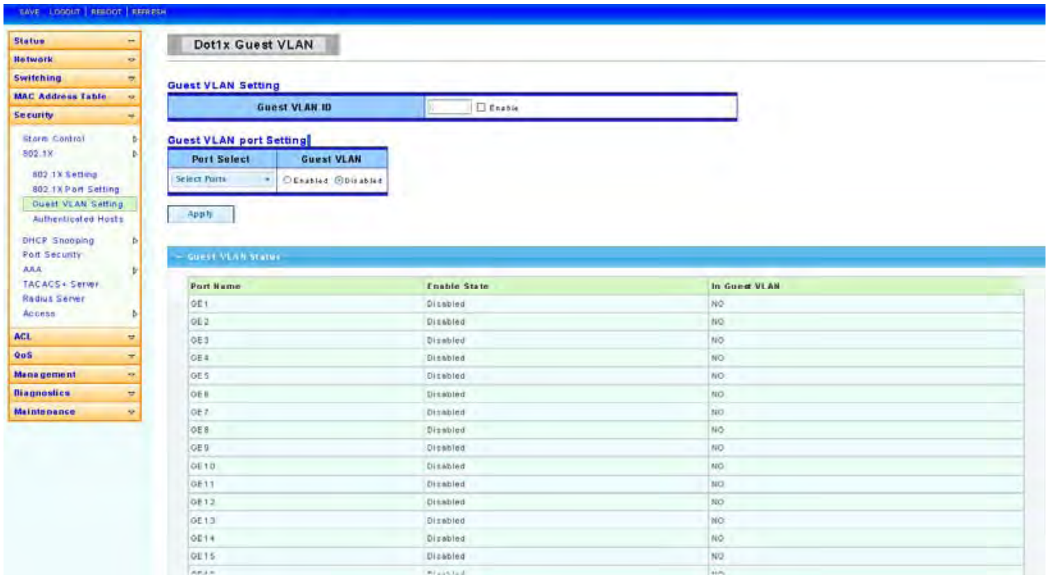
No Authentication:802.1X disabled.

Reauthentication Enable: Set the enabling status of802.1X reauthentication.

Reauthentication Period: Set the reauthentication period of 802.1X if reauthentication is enabled.

Guest VLAN Setting

To display Guest VLAN Setting web page, click **Security > 802.1X > Guest VLAN Setting**



Guest VLAN Setting

Guest VLAN ID	□ Enable

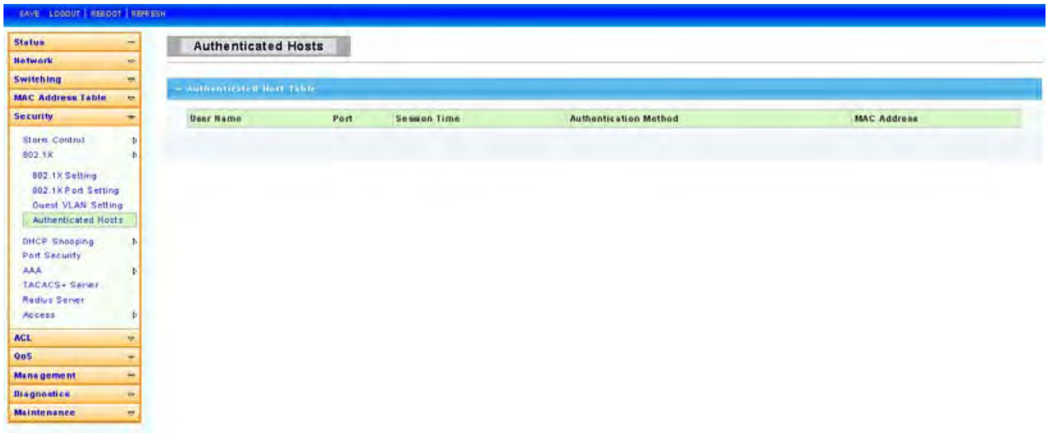
Guest VLAN port Setting

Port Select	Guest VLAN
Select Ports	○ Enabled ● Disabled

Port Name	Enable State	In Guest VLAN
GE1	Disabled	NO
GE2	Disabled	NO
GE3	Disabled	NO
GE4	Disabled	NO
GE5	Disabled	NO
GE6	Disabled	NO
GE7	Disabled	NO
GE8	Disabled	NO
GE9	Disabled	NO
GE10	Disabled	NO
GE11	Disabled	NO
GE12	Disabled	NO
GE13	Disabled	NO
GE14	Disabled	NO
GE15	Disabled	NO

Authenticated Hosts

To display Authenticated Hosts web page, click **Security > 802.1X > Authenticated Hosts**



User Name	Port	Session Time	Authentication Method	MAC Address

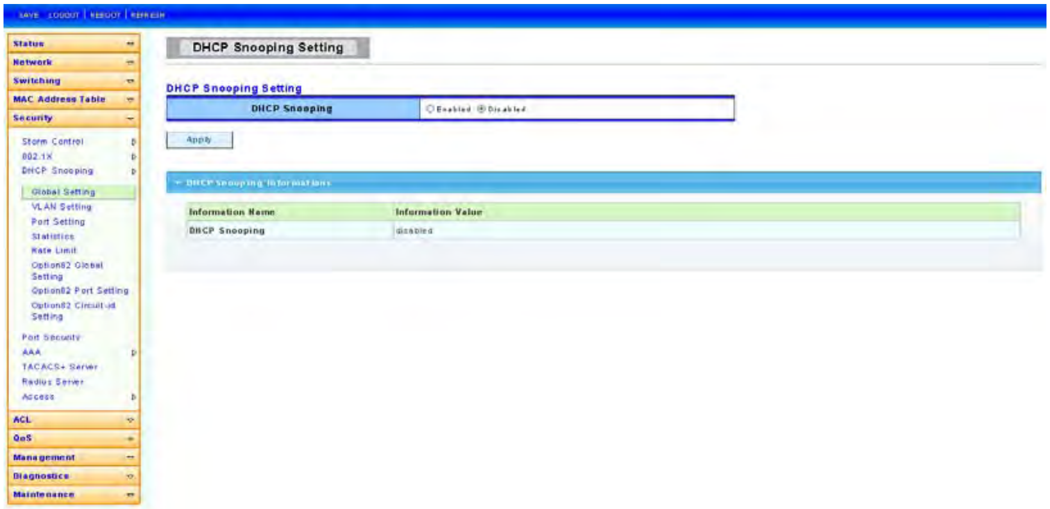
DHCP Snooping

When the switch opens DHCP-Snooping, it will snoop DHCP message and receive DHCP Request and abstract and record the IP address and MAC address from DHCP ACK message. Besides, DHCP-Snooping admits one physical port setting as creditable port or discreditable ports. Creditable ports can receive and forward the DHCP Offer message, on the contrary, the discreditable port will lose the DHCP Offer message. In that way, the switch can pick out the fake DHCP Server and make sure that the client gets legal IP address from DHCP Server.

Global Setting

To display Global Setting web page, click **Security > DHCP Snooping > Global Setting**

This page is used to open DHCP Snooping function



DHCP Snooping Setting

DHCP Snooping Setting

DHCP Snooping: ○ Enabled ● Disabled

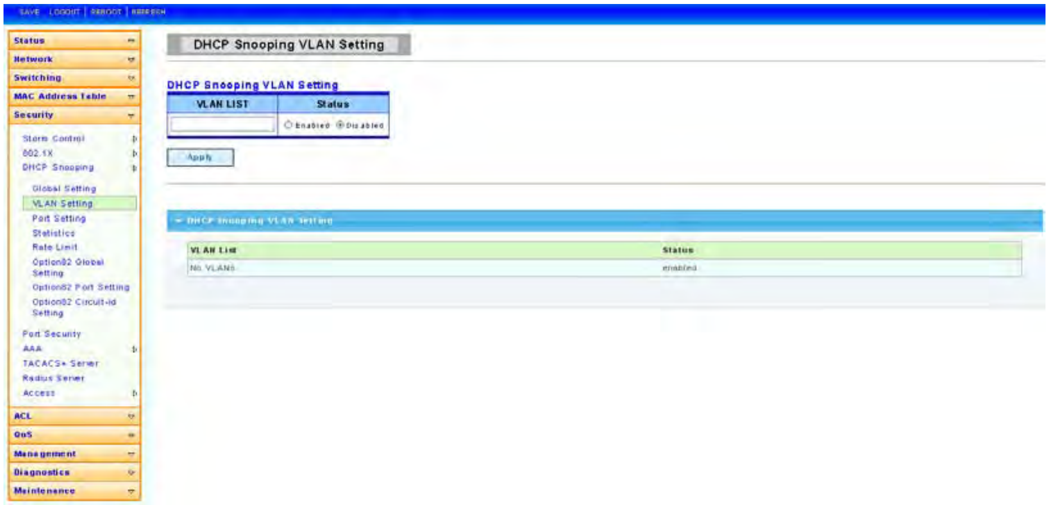
Information Name	Information Value
DHCP Snooping	disabled

DHCP Snooping: enable or disable DHCP Snooping function

VLAN Setting

To display VLAN Setting web page, click **Security > DHCP Snooping > VLAN Setting**

Specific VLAN starts DHCP Snooping



DHCP Snooping VLAN Setting

DHCP Snooping VLAN Setting

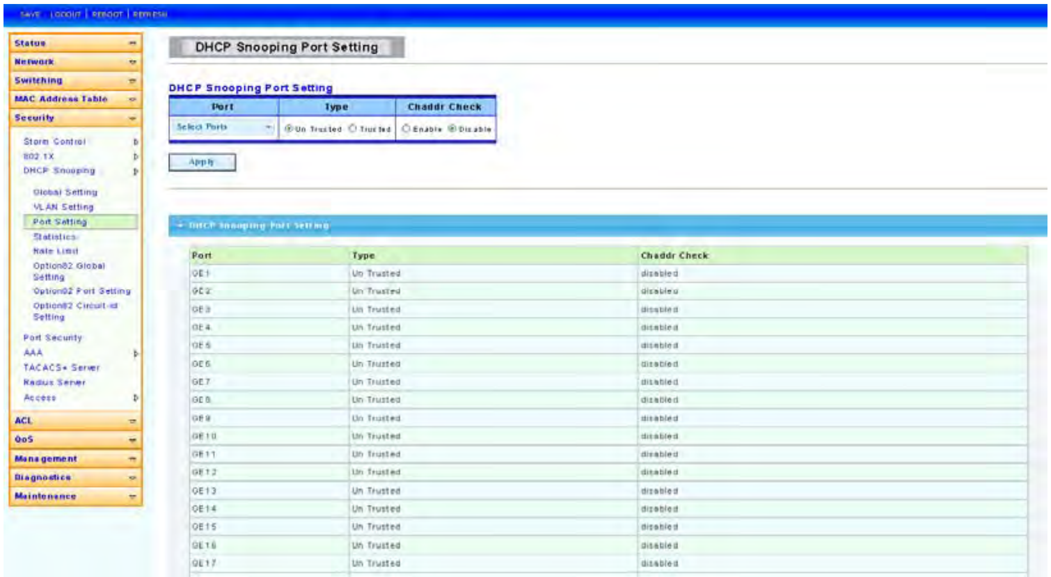
VLAN LIST	Status
	○ Enabled ● Disabled

VLAN List	Status
No VLANs	enabled

Port Setting

To display Port Setting web page, click **Security > DHCP Snooping > Port Setting**

This page allow user to make the specific port is configured for DHCP Snooping trust port.



DHCP Snooping Port Setting

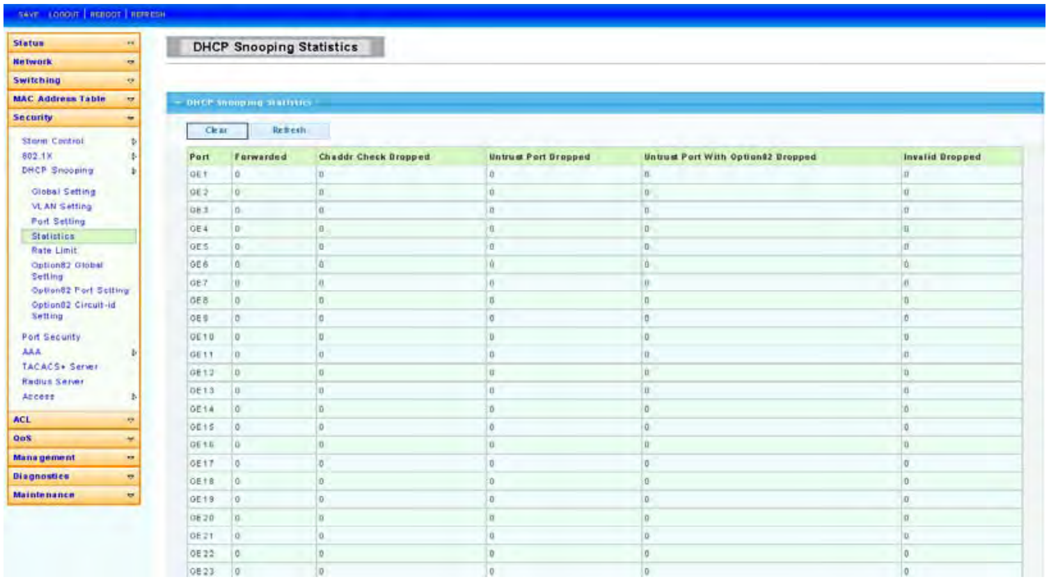
Port	Type	Chaddr Check
Select Ports	● Un Trusted ○ Trusted	○ Enable ● Disable

Port	Type	Chaddr Check
GE 1	Un Trusted	disabled
GE 2	Un Trusted	disabled
GE 3	Un Trusted	disabled
GE 4	Un Trusted	disabled
GE 5	Un Trusted	disabled
GE 6	Un Trusted	disabled
GE 7	Un Trusted	disabled
GE 8	Un Trusted	disabled
GE 9	Un Trusted	disabled
GE 10	Un Trusted	disabled
GE 11	Un Trusted	disabled
GE 12	Un Trusted	disabled
GE 13	Un Trusted	disabled
GE 14	Un Trusted	disabled
GE 15	Un Trusted	disabled
GE 16	Un Trusted	disabled
GE 17	Un Trusted	disabled

Statistics

To display Statistics web page, click **Security > DHCP Snooping > Statistics**

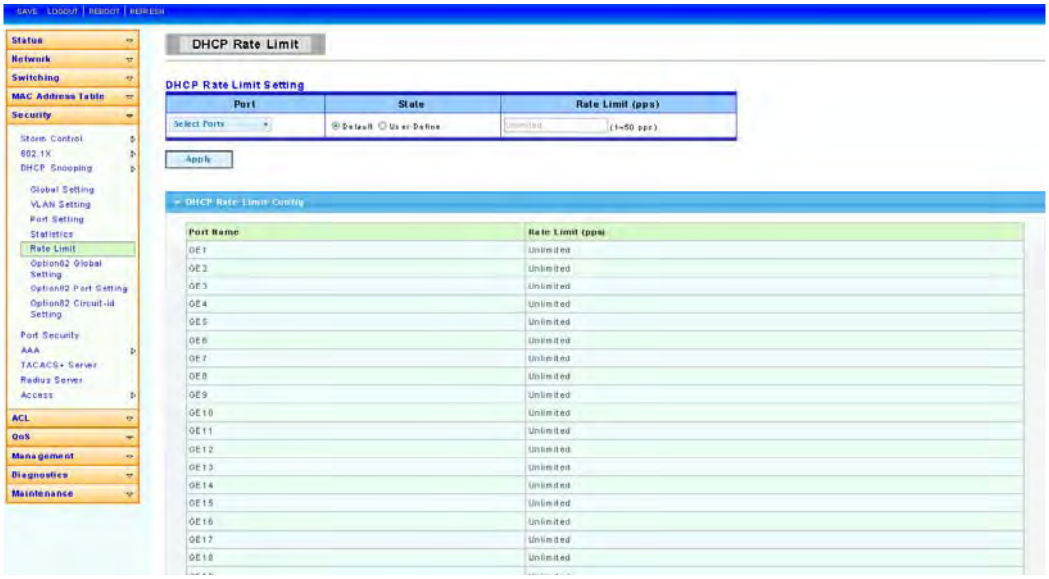
This page statistics of each port of DHCP Snooping state information.



Port	Forwarded	Chaddr Check Dropped	Untrust Port Dropped	Untrust Port With Option82 Dropped	Invalid Dropped
GE 1	0	0	0	0	0
GE 2	0	0	0	0	0
GE 3	0	0	0	0	0
GE 4	0	0	0	0	0
GE 5	0	0	0	0	0
GE 6	0	0	0	0	0
GE 7	0	0	0	0	0
GE 8	0	0	0	0	0
GE 9	0	0	0	0	0
GE 10	0	0	0	0	0
GE 11	0	0	0	0	0
GE 12	0	0	0	0	0
GE 13	0	0	0	0	0
GE 14	0	0	0	0	0
GE 15	0	0	0	0	0
GE 16	0	0	0	0	0
GE 17	0	0	0	0	0
GE 18	0	0	0	0	0
GE 19	0	0	0	0	0
GE 20	0	0	0	0	0
GE 21	0	0	0	0	0
GE 22	0	0	0	0	0
GE 23	0	0	0	0	0

Rate Limit

To display Rate Limit web page, click **Security > DHCP Snooping > Rate Limit**



DHCP Rate Limit

DHCP Rate Limit Setting

Port	State	Rate Limit (pps)
Select Ports	● Default ○ User-Define	Unlimited (1~50 pps)

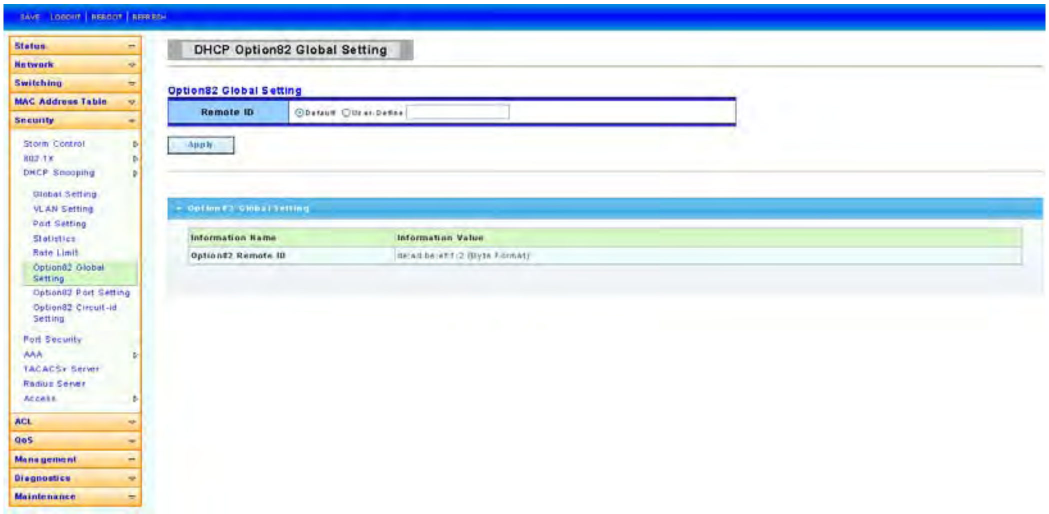
DHCP Rate Limit Config

Port Name	Rate Limit (pps)
GE1	Unlimited
GE2	Unlimited
GE3	Unlimited
GE4	Unlimited
GE5	Unlimited
GE6	Unlimited
GE7	Unlimited
GE8	Unlimited
GE9	Unlimited
GE10	Unlimited
GE11	Unlimited
GE12	Unlimited
GE13	Unlimited
GE14	Unlimited
GE15	Unlimited
GE16	Unlimited
GE17	Unlimited
GE18	Unlimited

Option82 Global Setting

To display Option82 Global Setting web page, click **Security> DHCP Snooping > Option82 Global Setting**

This page is used to configure DHCP Snooping support Option82 strategy.



DHCP Option82 Global Setting

Option82 Global Setting

Remote ID	● Default ○ User-Define

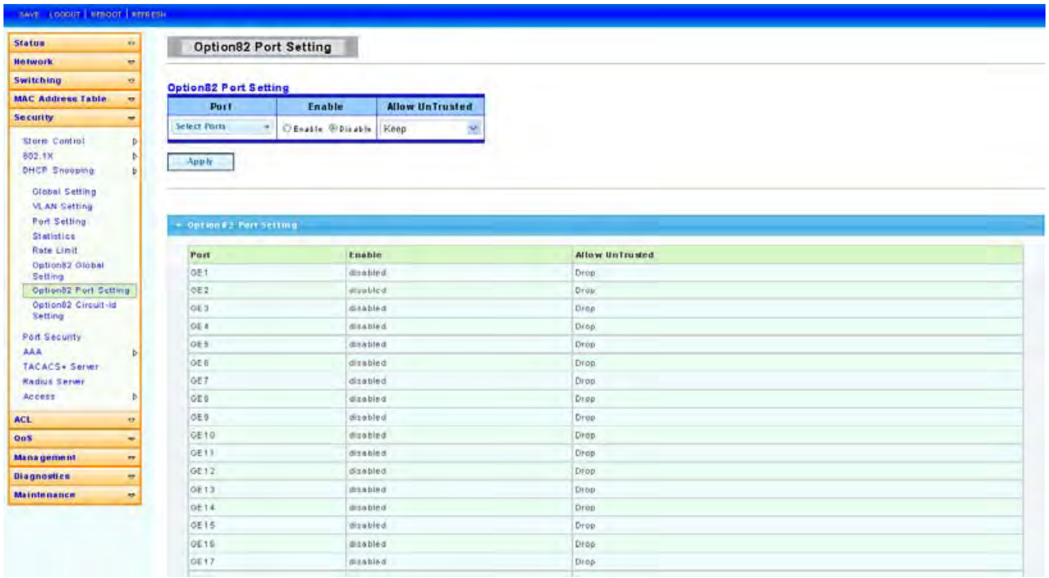
Option82 Global Setting

Information Name	Information Value
Option82 Remote ID	de:ad:be:ef:1:2 (Byte Format)

Option82 Port Setting

To display Option82 Port Setting web page, click **Security> DHCP Snooping >** Option82 **Port Setting**

To the specified port configuration of receiving containing Option 82 options request packet port handling strategy.



Option82 Port Setting

Option82 Port Setting

Port	Enable	Allow UnTrusted
Select Ports	○ Enable ● Disable	Keep

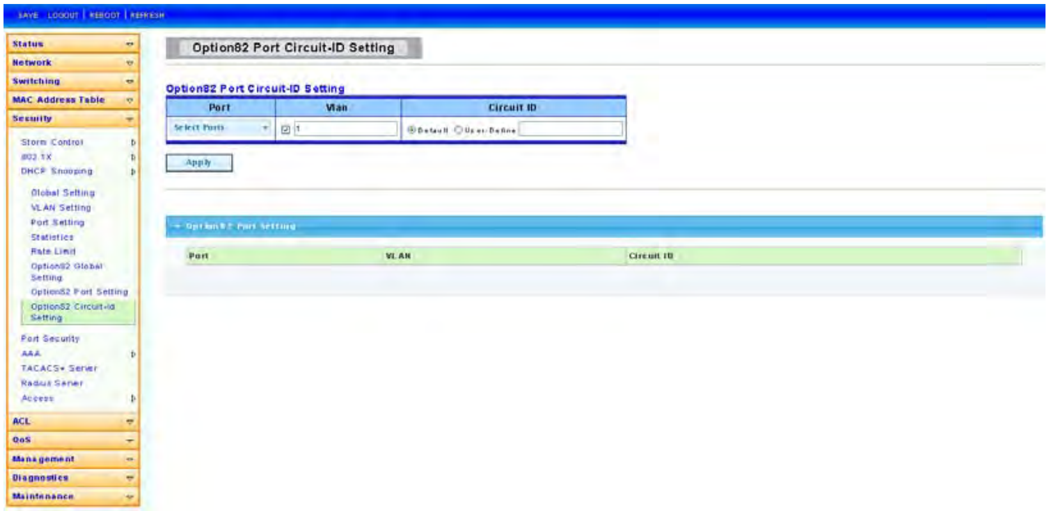
Option82 Port Setting

Port	Enable	Allow UnTrusted
GE1	disabled	Drop
GE2	disabled	Drop
GE3	disabled	Drop
GE4	disabled	Drop
GE5	disabled	Drop
GE6	disabled	Drop
GE7	disabled	Drop
GE8	disabled	Drop
GE9	disabled	Drop
GE10	disabled	Drop
GE11	disabled	Drop
GE12	disabled	Drop
GE13	disabled	Drop
GE14	disabled	Drop
GE15	disabled	Drop
GE16	disabled	Drop
GE17	disabled	Drop

Option82 Circuit-ID Setting

To display Option82 Circuit-ID Setting web page, click **Security> DHCP Snooping > Option82 Circuit-ID Setting**

This page allow user to edit circuit ID content in the option82.



Option82 Port Circuit-ID Setting

Option82 Port Circuit-ID Setting

Port	Vlan	Circuit ID
Select Ports	☑ 1	● Default ○ User Define

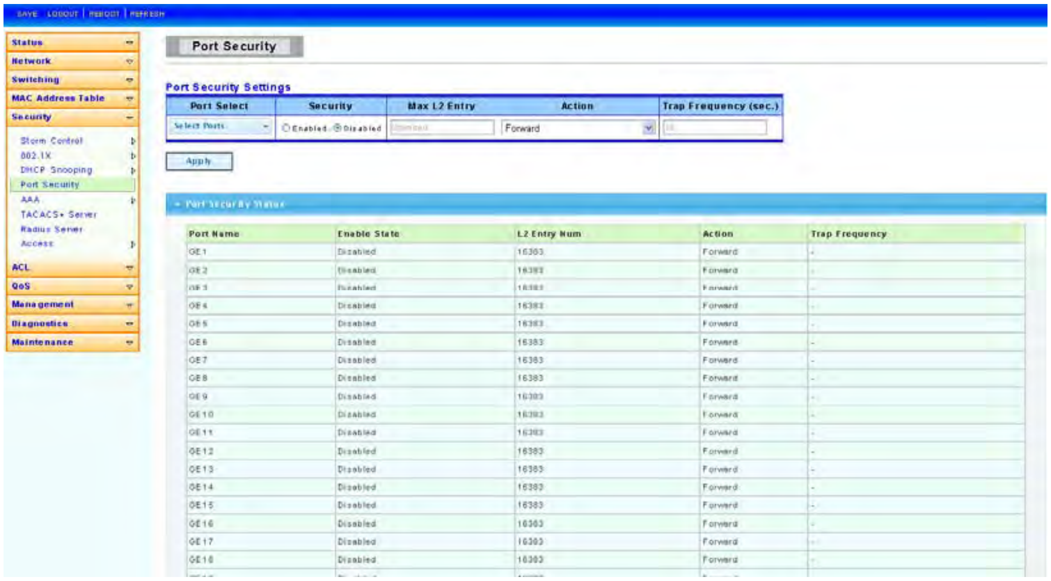
Option82 Port Setting

Port	VLAN	Circuit ID

Port Security

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

Ports Security, it can set port isolation and specific behavior.



Port Security

Port Security Settings

Port Select	Security	Max L2 Entry	Action	Trap Frequency (sec.)
Select Ports	○ Enabled ● Disabled		Forward	

Port Security Status

Port Name	Enable State	L2 Entry Num	Action	Trap Frequency
GE1	Disabled	16383	Forward	-
GE2	Disabled	16383	Forward	-
GE3	Disabled	16383	Forward	-
GE4	Disabled	16383	Forward	-
GE5	Disabled	16383	Forward	-
GE6	Disabled	16383	Forward	-
GE7	Disabled	16383	Forward	-
GE8	Disabled	16383	Forward	-
GE9	Disabled	16383	Forward	-
GE10	Disabled	16383	Forward	-
GE11	Disabled	16383	Forward	-
GE12	Disabled	16383	Forward	-
GE13	Disabled	16383	Forward	-
GE14	Disabled	16383	Forward	-
GE15	Disabled	16383	Forward	-
GE16	Disabled	16383	Forward	-
GE17	Disabled	16383	Forward	-
GE18	Disabled	16383	Forward	-

Port Select: Select one or multipleports to configure.

Security: Port security function. It constraint how many MAC addresses can be learned by a port and drop new one when reach the limitation.

Enable: Enable port security function.

Disable: Disable port security function.

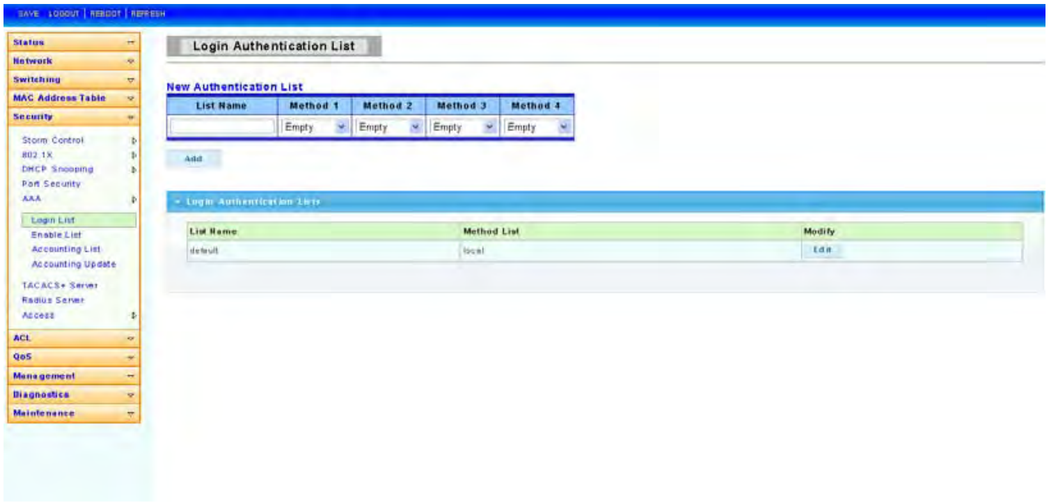
Max L2 Entry: The total number of MAC addresses entry which can be learn by a port.

AAA

Login List

To display Login List web page, click **Security > AAA > Login List**

This page allow user to add, edit delete login authentication list settings (The“default” list cannot be deleted.).The line combined to this list will authenticate login user by methods in this list. If the first method is failed, it will try to use the next priority method to authenticate if it exists.



Login Authentication List

New Authentication List

List Name	Method 1	Method 2	Method 3	Method 4
	Empty	Empty	Empty	Empty

Login Authentication Lists

List Name	Method List	Modify
default	local	Edit

List Name: New login authentication list name. This name should be different from other existing lists.

Method 1: Select first priority of login authentication method.

Local: Use local accounts database to authenticate.

Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Enable: Use local enable password to authenticate.

Method 2: Select second priority of login authentication method.

Local: Use local accounts database to authenticate.

Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Enable: Use local enable password to authenticate.

Method 3: Select third priority of login authentication method.

Local: Use local accounts database to authenticate.

Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Enable: Use local enable password to authenticate.

Method 4: Select forth priority of login authentication method.

Local: Use local accounts database to authenticate

Tacacs+: Use remote TACACS+ server to authenticate.

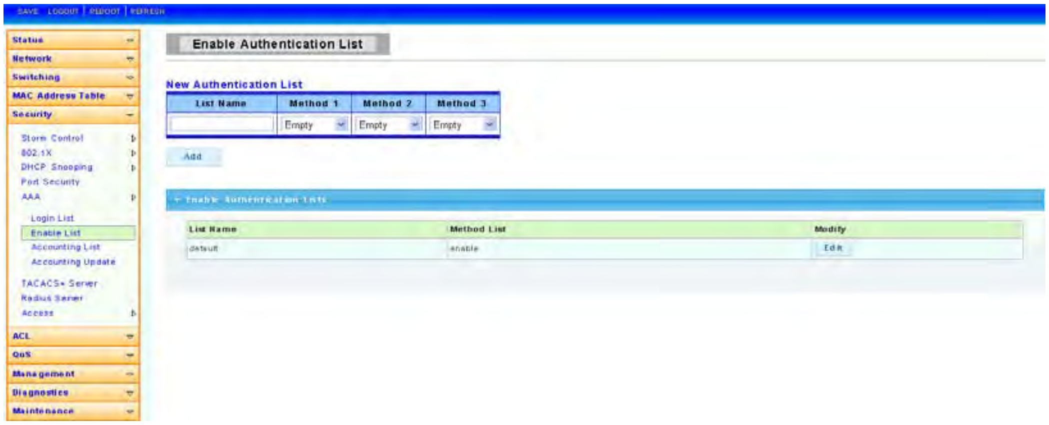
Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Enable: Use local enable password to authenticate

Enable List

To display Login List web page, click **Security> AAA > Enable List**

This page allow user to add, editor delete enable authentication list settings (The “default” list cannot be deleted.). The line combined to this list will authenticate user who issuing the‘enable’ command by methods in this list. If the first method is failed, it will try to use the next priority method to authenticate if it exists.



Enable Authentication List

New Authentication List

List Name	Method 1	Method 2	Method 3
	Empty	Empty	Empty

Enable Authentication Lists

List Name	Method List	Modify
default	enable	Edit

List Name: New enable authentication list name. This name should be. different from other existing lists.

Method 1: Select first priority of enable authentication method.

Enable: Use local enable password to authenticate

Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Method 2: Select second priority of enable authentication method.

Enable: Use local enable password to authenticate

Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Method 3: Select third priority of enable authentication method.

Enable: Use local enable password to authenticate.

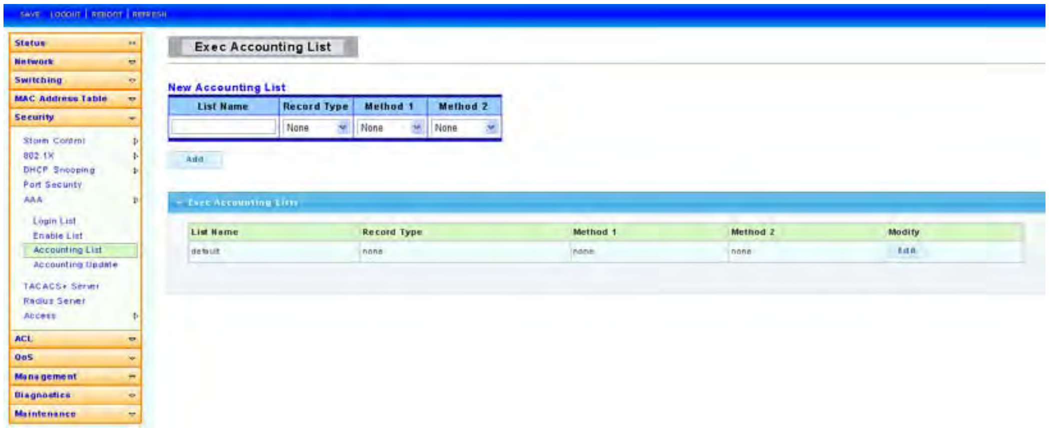
Tacacs+: Use remote TACACS+ server to authenticate.

Radius: Use remote Radius server to authenticate. Not supported now, it will besupported in the future.

Accounting List

To display Accounting List web page, click **Security> AAA > Accounting List**

This page allow user to add, editor delete accounting list settings (The “default” list cannot be deleted.). The line combined to this list will accounting user who entering CLI shell by methods in this list. If the first method is failed, it will try to use the next priority method to accounting if it exists.



Exec Accounting List

New Accounting List

List Name	Record Type	Method 1	Method 2
	None	None	None

Exec Accounting Lists

List Name	Record Type	Method 1	Method 2	Modify
default	none	none	none	Edit

List Name: New accounting list name. This name should be different from other existing lists.

Record Type: Select accounting record type.

none: No accounting.

start-stop: Record start and stop without waiting.

stop-only: Record stop when service terminates.

Method 1: Select first priority ofexec accounting method.

Tacacs+: Use remote TACACS+ server to accounting.

Radius: Use remote Radius server to accounting. Not supported now, it will besupported in the future.

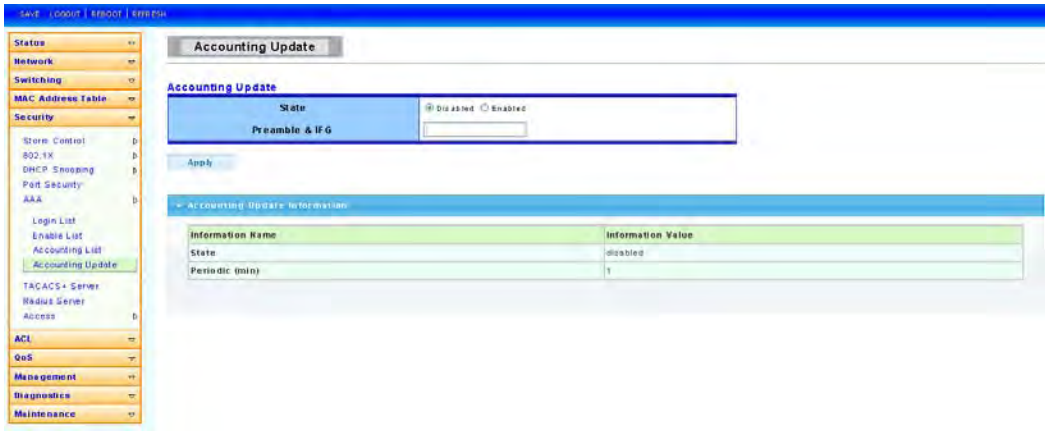
Method 2: Select second priority ofexec accounting method.

Tacacs+: Use remote TACACS+ server to accounting.

Radius: Use remote Radius server to accounting. Not supported now, it will besupported in the future.

Accounting Update

To display Accounting Update web page, click **Security> AAA > Accounting Update**



Accounting Update

Accounting Update

State	● Disabled ○ Enabled
Preamble & IFG	

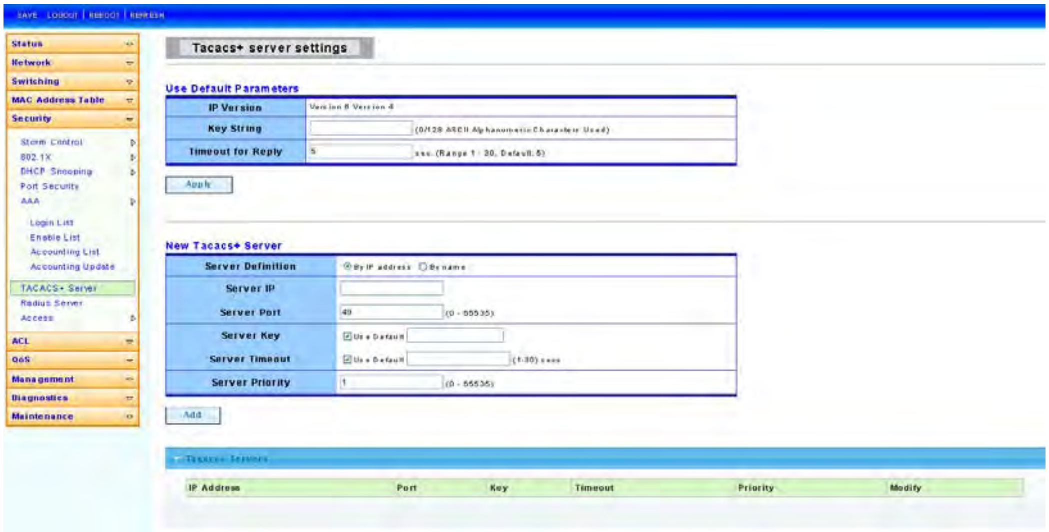
Accounting Update Information

Information Name	Information Value
State	disabled
Periodic (min)	1

Tacacs+ Server

To display Tacacs+ server web page, click **Security> AAA >Tacacs+ server**

This page allow user to add, edit or delete TACACS+ server settings.



Tacacs+ server settings

Use Default Parameters

IP Version	Version 6 Version 4
Key String	(0/128 ASCII Alphanumeric Characters Used)
Timeout for Reply	5 sec. (Range 1 - 30, Default: 5)

New Tacacs+ Server

Server Definition	● By IP address ○ By name
Server IP	
Server Port	49 (0 - 65535)
Server Key	☑ Use Default
Server Timeout	☑ Use Default (1-30) secs
Server Priority	1 (0 - 65535)

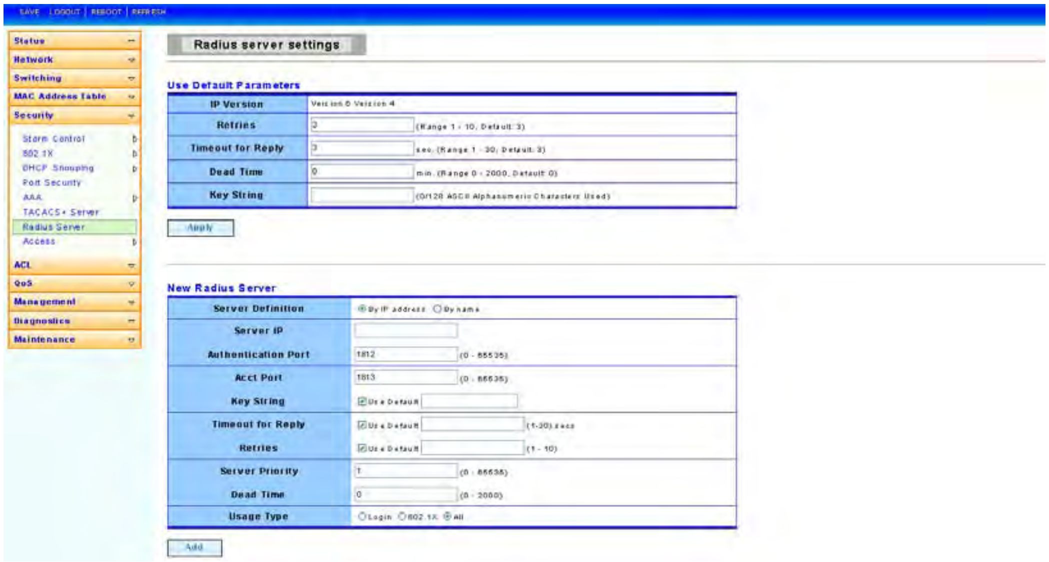
Tacacs+ Servers

IP Address	Port	Key	Timeout	Priority	Modify

Radius server

To display Radius server web page, click **Security > AAA > Radius server**

This page is used to set about radius server.



Radius server settings

Use Default Parameters

IP Version	Version 6 Version 4
Retries	3 (Range 1 - 10, Default: 3)
Timeout for Reply	3 sec. (Range 1 - 30, Default: 3)
Dead Time	0 min. (Range 0 - 2000, Default: 0)
Key String	(0/128 ASCII Alphanumeric Characters Used)

New Radius Server

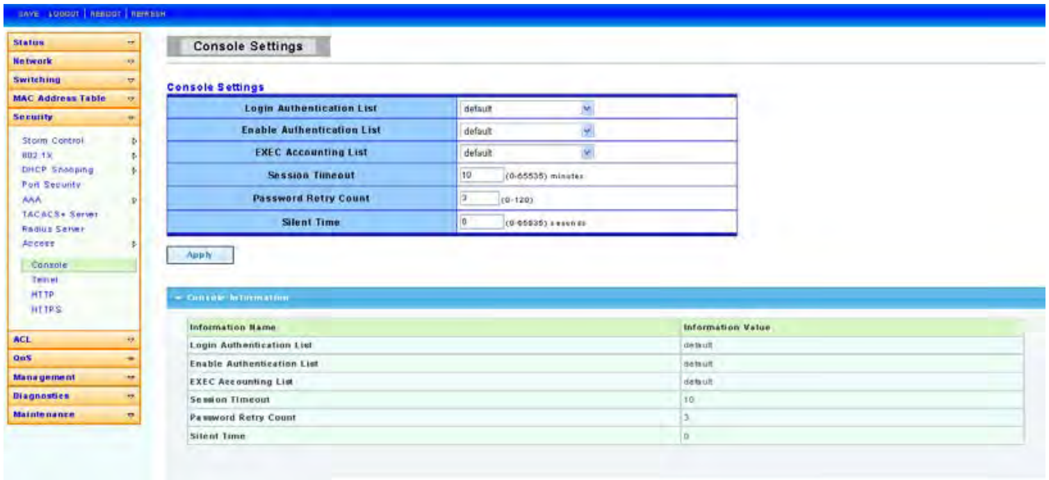
Server Definition	● By IP address ○ By name
Server IP	
Authentication Port	1812 (0 - 65535)
Acct Port	1813 (0 - 65535)
Key String	☑ Use Default
Timeout for Reply	☑ Use Default (1-30) secs
Retries	☑ Use Default (1 - 10)
Server Priority	1 (0 - 65535)
Dead Time	0 (0 - 2000)
Usage Type	○ Login ○ 802.1X ● All

Access

Console

To display Console web page, click **Security > Access > Console**

This page allow user to combine all kinds of AAA lists to console line. The user accesses switch from console will be authenticated, authorized and accounted by AAA lists we combined here.



Console Settings

Console Settings

Login Authentication List	default
Enable Authentication List	default
EXEC Accounting List	default
Session Timeout	10 (0-65535) minutes
Password Retry Count	3 (0-120)
Silent Time	0 (0-65535) seconds

Console Information

Information Name	Information Value
Login Authentication List	default
Enable Authentication List	default
EXEC Accounting List	default
Session Timeout	10
Password Retry Count	3
Silent Time	0

Login Authentication List: Select one of the login authentication lists we configured in

“Login List” page.

Enable Authentication List: Select one of the enable authentication lists we configured in “Enable List” page.

EXEC Authorization List: Select one of the EXEC authorization lists we configured in "EXEC List" page.

Commands Authorization List: Select one of the commands authorization lists we configured in "Commands List" page.

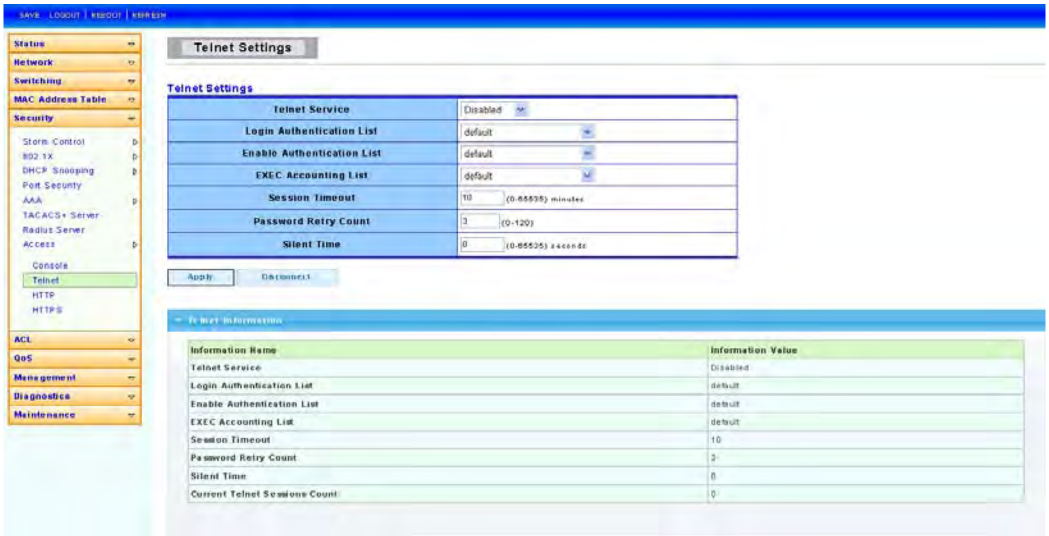
EXEC Accounting List: Select one of the EXEC accounting lists we configured in "Accounting List" page.

Session Timeout: Set session timeout minutes for user access CLI from console line. If user does not response after session timeout minute, CLI will logout automatically. 0 minutes means never timeout.

Telnet

To display Telnet web page, click **Security > Access > Telnet**

This page allow user to combine all kinds of AAA lists to telnet line. The user accesses switch from telnet will be authenticated, authorized and accounted by AAA lists we combined here.



Telnet Settings

Telnet Settings

Telnet Service	Disabled
Login Authentication List	default
Enable Authentication List	default
EXEC Accounting List	default
Session Timeout	10 (0-65535) minutes
Password Retry Count	3 (0-120)
Silent Time	0 (0-65535) seconds

Telnet Information

Information Name	Information Value
Telnet Service	Disabled
Login Authentication List	default
Enable Authentication List	default
EXEC Accounting List	default
Session Timeout	10
Password Retry Count	3
Silent Time	0
Current Telnet Sessions Count	0

Telnet Service:Set remote service disable or enable

Login Authentication List: Select one of the login authentication lists we configured in

"Login List" page.

Enable Authentication List: Select one of the enable authentication lists we configured in "Enable List" page.

EXEC Authorization List: Select one of the EXEC authorization lists we configured in

"EXEC List" page.

Commands Authorization List: Select one of the commands authorization lists we configured in "Commands List" page.

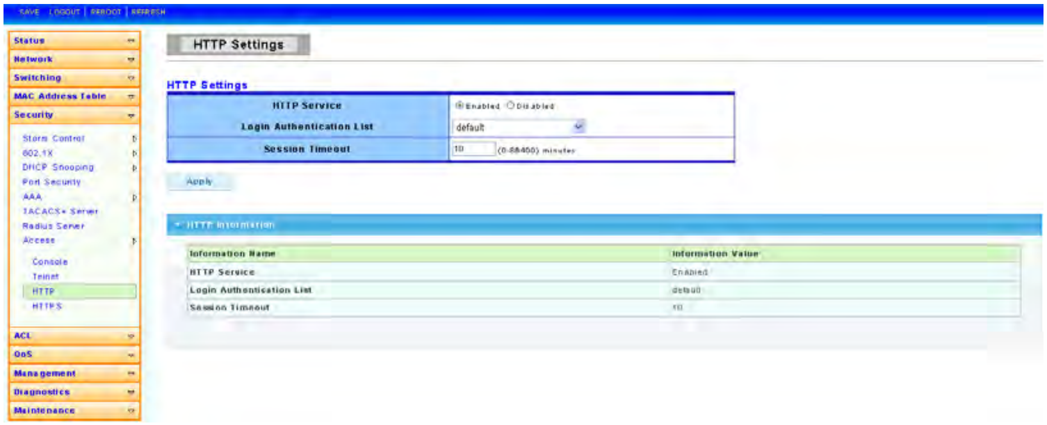
EXEC Accounting List: Select one of the EXEC accounting lists we configured in "Accounting List" page.

Session Timeout: Set session timeout minutes for user access CLI from telnet line. If user does not response after session timeout minute, CLI will logout automatically.

HTTP

To display HTTP web page, click **Security > Access > HTTP**

This page allow user to combine all kinds of AAA lists to HTTP line. The user accesses switch WEBUI from HTTP will be authenticated by AAA lists we combined here.



HTTP Settings

HTTP Service	● Enabled ○ Disabled
Login Authentication List	default
Session Timeout	10 (0-86400) minutes

Information Name	Information Value
HTTP Service	Enabled
Login Authentication List	default
Session Timeout	10

HTTP Server ： set HTTP Server disable or enable.

Login Authentication List: Select one of the login authentication lists we configured in

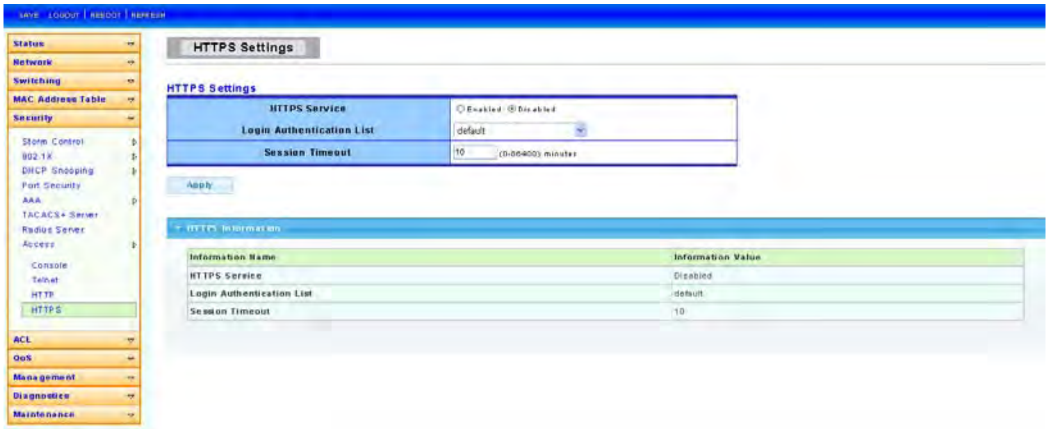
"Login List" page.

Session Timeout: Set session timeout minutes for user access WEB from HTTP protocol. If user does not response after session timeout minute, WEBUI will logout automatically. 0 minutes means never timeout.

HTTPS

To display HTTPS web page, click **Security > Access > HTTPS**

This page allow user to combine all kinds of AAA lists to HTTPS line. The user accesses switch WEBUI from HTTPS will be authenticated by AAA lists we combined here.



HTTPS Settings

HTTPS Settings

HTTPS Service	○ Enabled ● Disabled
Login Authentication List	default
Session Timeout	10 (0-86400) minutes

Information Name	Information Value
HTTPS Service	Disabled
Login Authentication List	default
Session Timeout	10

HTTPS Server: Set HTTPS Server disable or enable.

Login Authentication List: Select one of the login authentication lists we configured in “Login List” page.

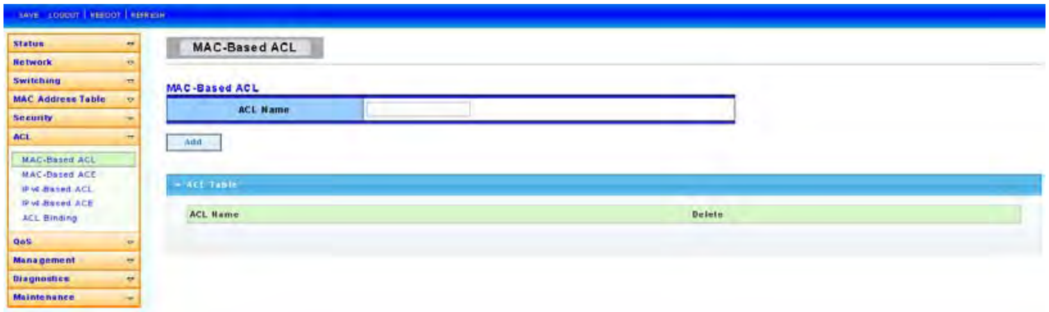
Session Timeout: Set session timeout minutes for user access WEB from HTTPS protocol. If user does not response after session timeout minute, WEBUI will logout automatically. 0 minutes means never timeout.

5.6 ACL

MAC-Based ACL

To display MAC-Based ACL web page, click **ACL > MAC-Based ACL**

This page allow user to set name for MAC-Based ACL.



MAC-Based ACL

ACL Name	

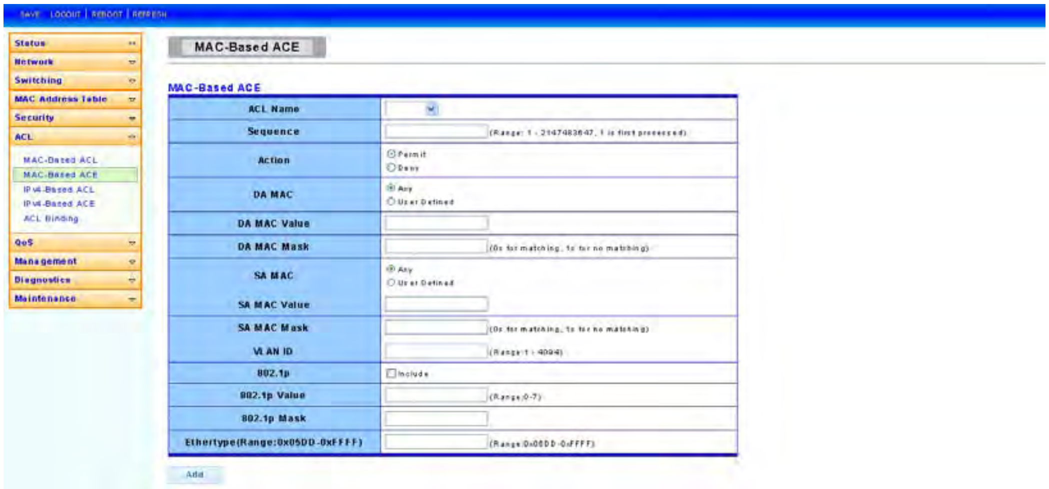
ACL Name	Delete

ACL Name: Enter ACL name in this field.

MAC-Based ACE

To display MAC-Based ACE web page, click **ACL > MAC-Based ACE**

This page allow user to set Based on MAC address expanding ACL list, matching corresponding MAC and setting the ports as drop or forward.



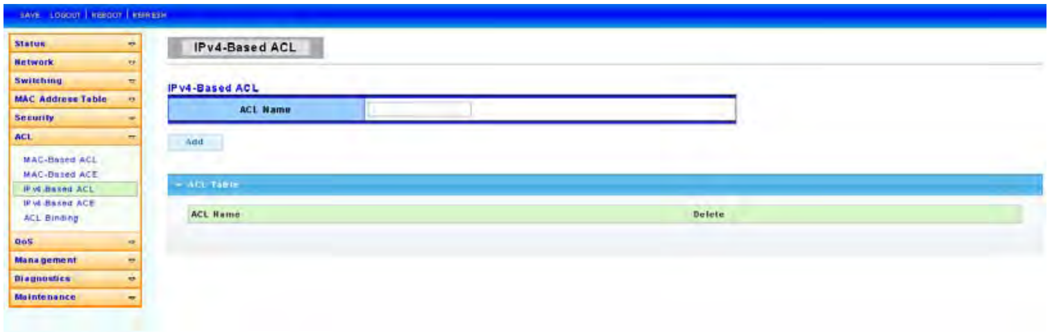
MAC-Based ACE

ACL Name	
Sequence	(Range: 1 - 2147483647, 1 is first processed)
Action	● Permit ○ Deny
DA MAC	● Any ○ User Defined
DA MAC Value	
DA MAC Mask	(0s for matching, 1s for no matching)
SA MAC	● Any ○ User Defined
SA MAC Value	
SA MAC Mask	(0s for matching, 1s for no matching)
VLAN ID	(Range:1 - 4094)
802.1p	□ Include
802.1p Value	(Range:0-7)
802.1p Mask	
Ethertype(Range:0x05DD-0xFFFF)	(Range:0x05DD-0xFFFF)

IPv4-Based ACL

To display IPv4-Based ACL web page, click **ACL > IPv4-Based ACL**

This page allow user to set name for IPv4-Based ACL.



IPv4-Based ACL

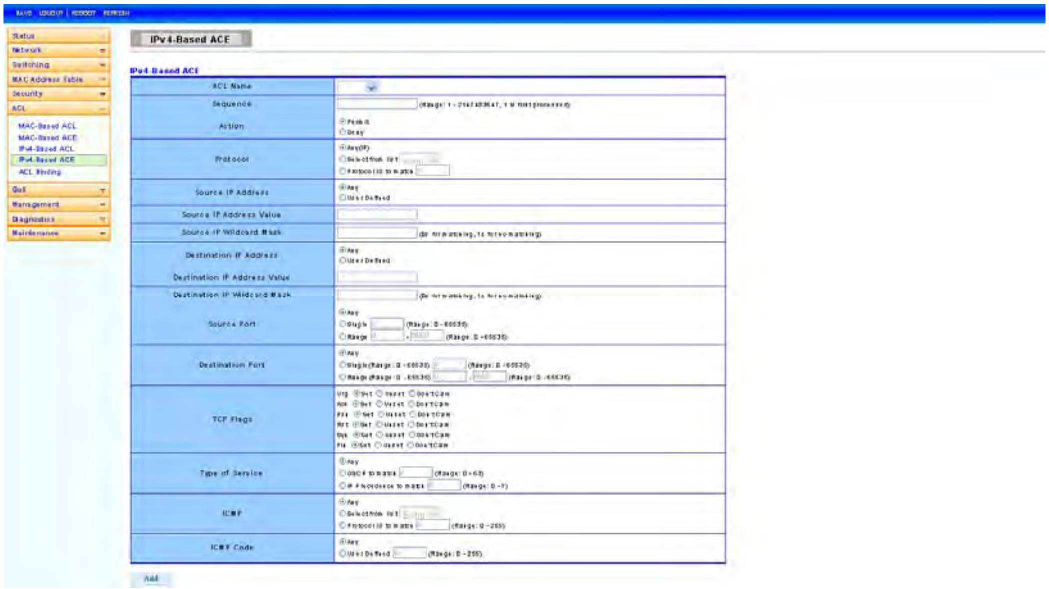
ACL Name	

ACL Name	Delete

IPv4-Based ACE

To display IPv4-Based ACE web page, click **ACL > IPv4-Based ACE**

This page allow user to set Based on IPv4 expanding ACL Peer Guardian and matching corresponding IP and setting the port as drop or forward.



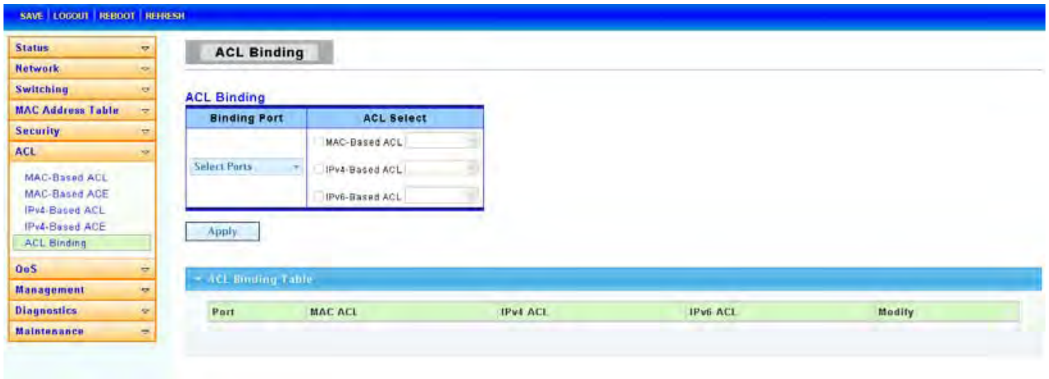
IPv4-Based ACE

ACL Name	
Sequence	(Range: 1 - 2147483647, 1 is first processed)
Action	● Permit ○ Deny
Protocol	● Any(IP) ○ Select from list ○ Protocol ID to match
Source IP Address	● Any ○ User Defined
Source IP Address Value	
Source IP Wildcard Mask	(0 for matching, 1 for no matching)
Destination IP Address	● Any ○ User Defined
Destination IP Address Value	
Destination IP Wildcard Mask	(0 for matching, 1 for no matching)
Source Port	● Any ○ Single (Range: 0 - 65535) ○ Range 0 - 65535 (Range: 0 - 65535)
Destination Port	● Any ○ Single(Range: 0 - 65535) (Range: 0 - 65535) ○ Range (Range: 0 - 65535) 0 - 65535 (Range: 0 - 65535)
TCP Flags	Urg ● Set ○ Unset ○ Don'tCare Ack ● Set ○ Unset ○ Don'tCare Psh ● Set ○ Unset ○ Don'tCare Rst ● Set ○ Unset ○ Don'tCare Syn ● Set ○ Unset ○ Don'tCare Fin ● Set ○ Unset ○ Don'tCare
Type of Service	● Any ○ DSCP to match (Range: 0~63) ○ IP Precedence to match (Range: 0~7)
ICMP	● Any ○ Select from list ○ Protocol ID to match (Range: 0 ~255)
ICMP Code	● Any ○ User Defined (Range: 0 - 255)

ACL Binding

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

This page allow user to Bounding with accordingly ACL rules, port bounding ACL rules.



ACL Binding

ACL Binding

Binding Port	ACL Select
Select Ports	□ MAC-Based ACL □ IPv4-Based ACL □ IPv6-Based ACL

ACL Binding Table

Port	MAC ACL	IPv4 ACL	IPv6 ACL	Modify

5.7 QoS

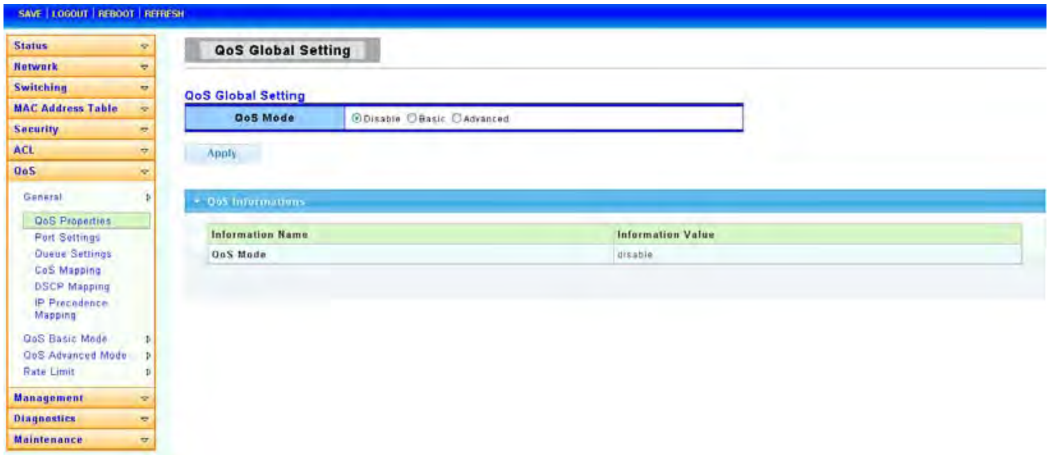
Use the QoS pages to configure settings for the switch QoS interface and how the switch connects to a remote server to get services.

General

QoS Properties

To display QoS properties web page, click **QoS > General > QoS properties**

This page allow user to set QoS mode such basic or advanced.



QoS Global Setting

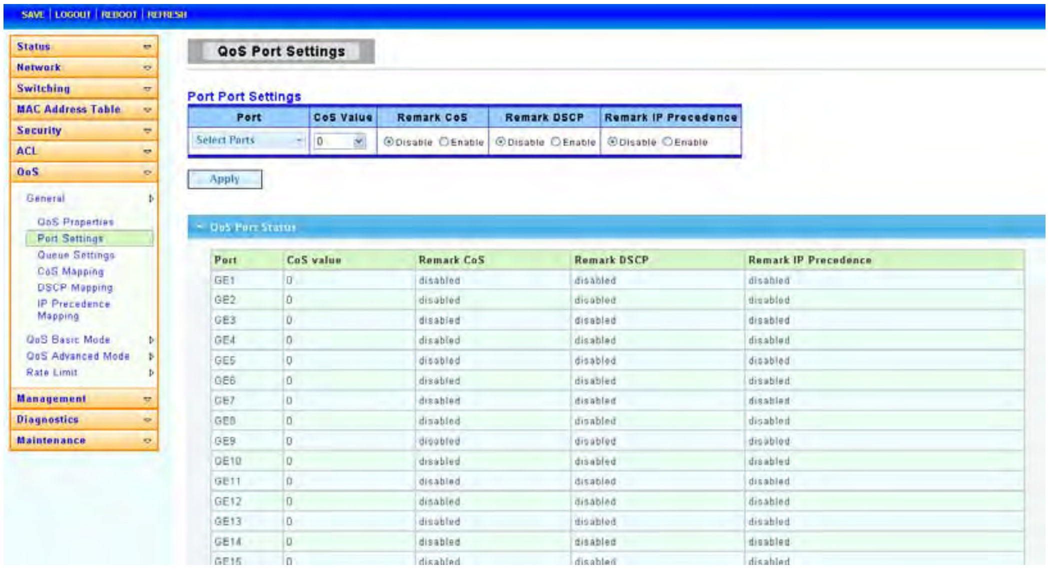
QoS Mode: ● Disable ○ Basic ○ Advanced

Information Name	Information Value
QoS Mode	disable

Port Settings

To display Port Settings web page, click **QoS > General > Port Settings**

This page is used to give the QoS instance port configuration.



Port Port Settings

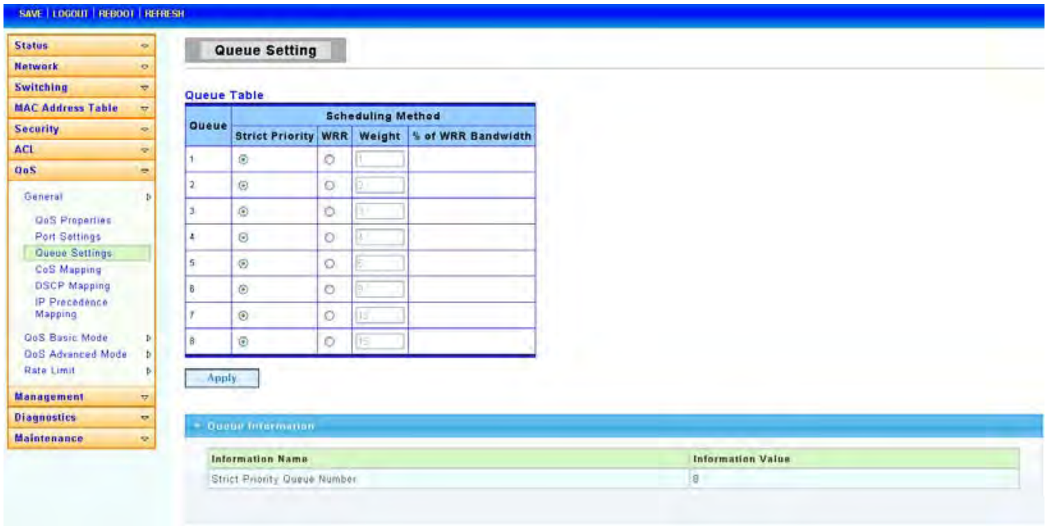
Port	CoS Value	Remark CoS	Remark DSCP	Remark IP Precedence
Select Ports	0	● Disable ○ Enable	● Disable ○ Enable	● Disable ○ Enable

Port	CoS value	Remark CoS	Remark DSCP	Remark IP Precedence
GE1	0	disabled	disabled	disabled
GE2	0	disabled	disabled	disabled
GE3	0	disabled	disabled	disabled
GE4	0	disabled	disabled	disabled
GE5	0	disabled	disabled	disabled
GE6	0	disabled	disabled	disabled
GE7	0	disabled	disabled	disabled
GE8	0	disabled	disabled	disabled
GE9	0	disabled	disabled	disabled
GE10	0	disabled	disabled	disabled
GE11	0	disabled	disabled	disabled
GE12	0	disabled	disabled	disabled
GE13	0	disabled	disabled	disabled
GE14	0	disabled	disabled	disabled
GE15	0	disabled	disabled	disabled

Queue Settings

To display Queue Setting web page, click **QoS > General > Queue Settings**

This page allow user to set Set the QoS instance queue scheduling model.



Queue Table

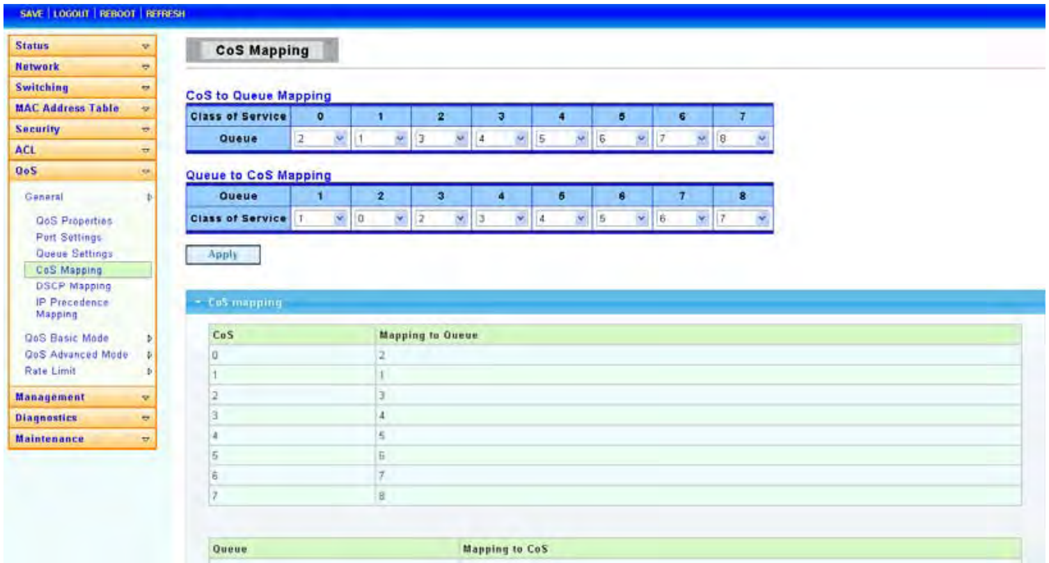
Queue	Scheduling Method			
	Strict Priority	WRR	Weight	% of WRR Bandwidth
1	●	○	1	
2	●	○	2	
3	●	○	3	
4	●	○	4	
5	●	○	5	
6	●	○	9	
7	●	○	13	
8	●	○	15	

Information Name	Information Value
Strict Priority Queue Number	8

COS Mapping

To display COS Mapping web page, click **QoS > General > COS Mapping**

The page allow user to set QoS instance of COS Mapping.



CoS to Queue Mapping

Class of Service	0	1	2	3	4	5	6	7
Queue	2	1	3	4	5	6	7	8

Queue to CoS Mapping

Queue	1	2	3	4	5	6	7	8
Class of Service	1	0	2	3	4	5	6	7

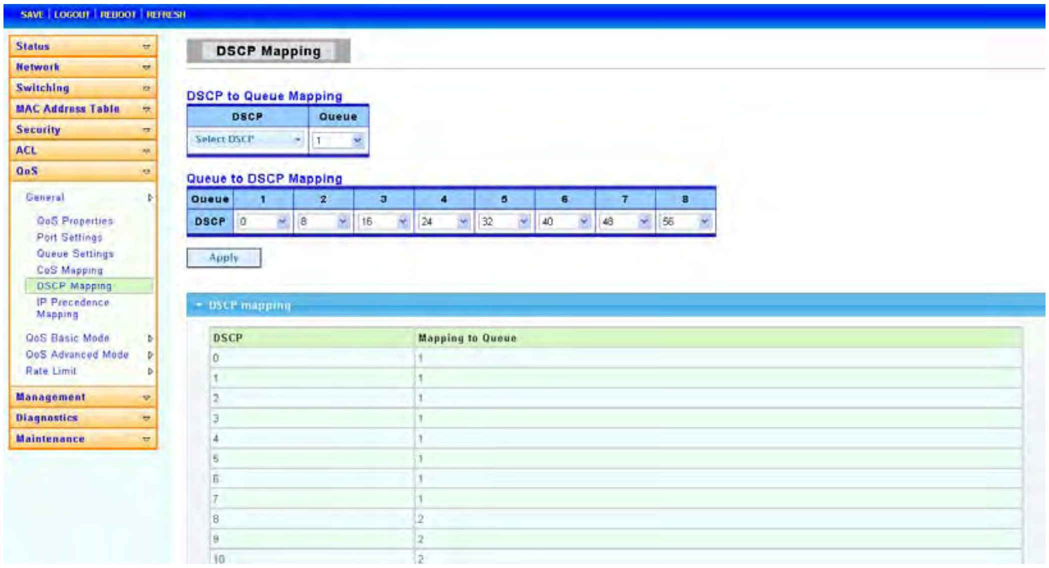
CoS	Mapping to Queue
0	2
1	1
2	3
3	4
4	5
5	6
6	7
7	8

Queue	Mapping to CoS

DSCP Mapping

To display DSCP Mapping web page, click **QoS > General > DSCP Mapping**

The page allow user to set QoS instance of DSCP Mapping.



DSCP Mapping

DSCP to Queue Mapping

DSCP	Queue
Select DSCP	1

Queue to DSCP Mapping

Queue	1	2	3	4	5	6	7	8
DSCP	0	8	16	24	32	40	48	56

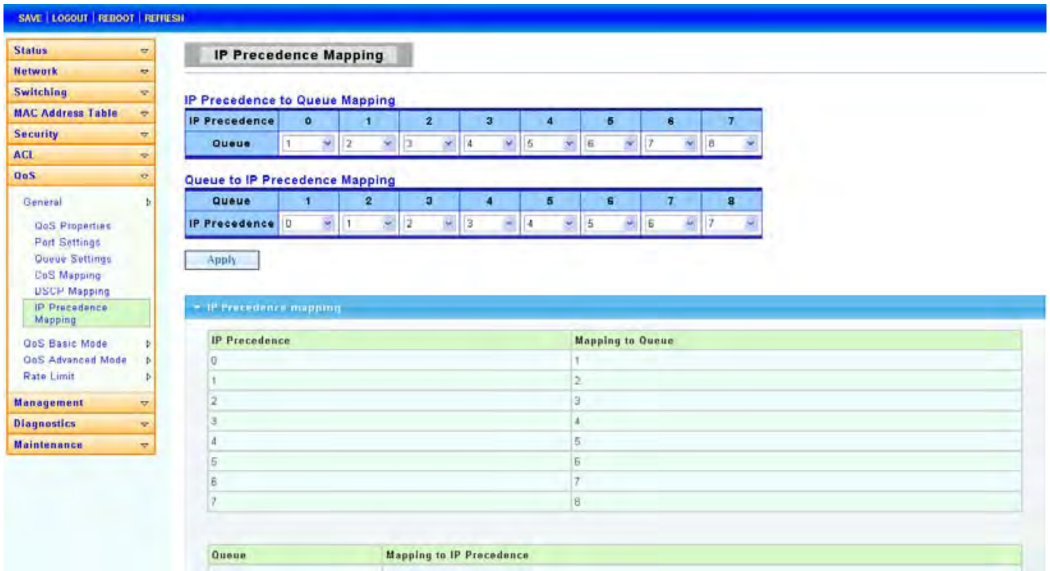
DSCP mapping

DSCP	Mapping to Queue
0	1
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	2
9	2
10	2

IP Precedence Mapping

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

The page allow user to set QoS instance of IP Precedence Mapping.



IP Precedence Mapping

IP Precedence to Queue Mapping

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

Queue to IP Precedence Mapping

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

IP Precedence mapping

IP Precedence	Mapping to Queue
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8

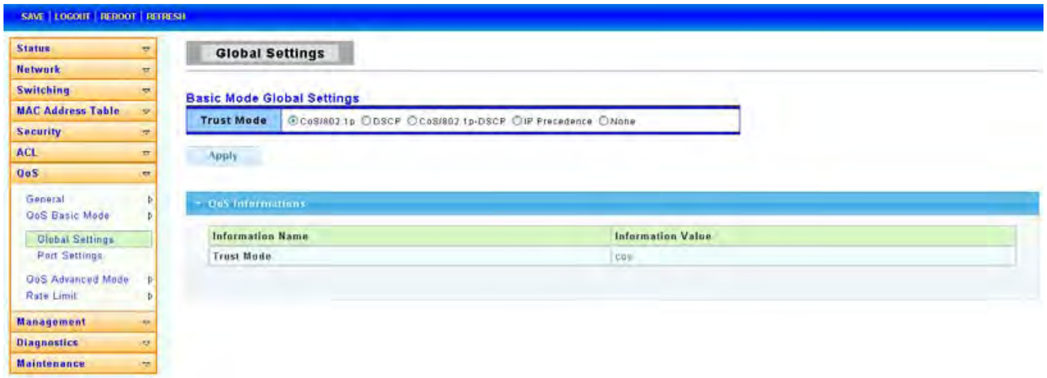
Queue	Mapping to IP Precedence

QoS Basic Mode

Global Settings

To display Global Settings web page, click **QoS > QoS Basic Mode > Global Settings**

This page allow user to set QoS for trust mode on basic mode global settings.



Global Settings

Basic Mode Global Settings

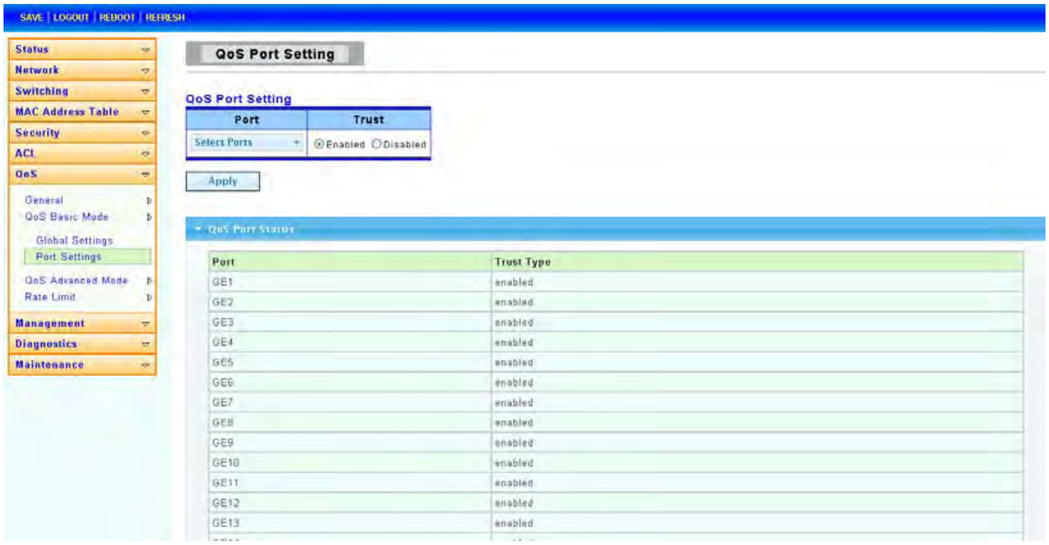
Trust Mode ● CoS/802.1p ○ DSCP ○ CoS/802.1p-DSCP ○ IP Precedence ○ None

Information Name	Information Value
Trust Mode	cos

Port Settings

To display Port Settings web page, click QoS > QoS Basic Mode > Port Settings

This page allow user to set QoS port setting enabled or disabled.



QoS Port Setting

QoS Port Setting

Port	Trust
Select Ports	● Enabled ○ Disabled

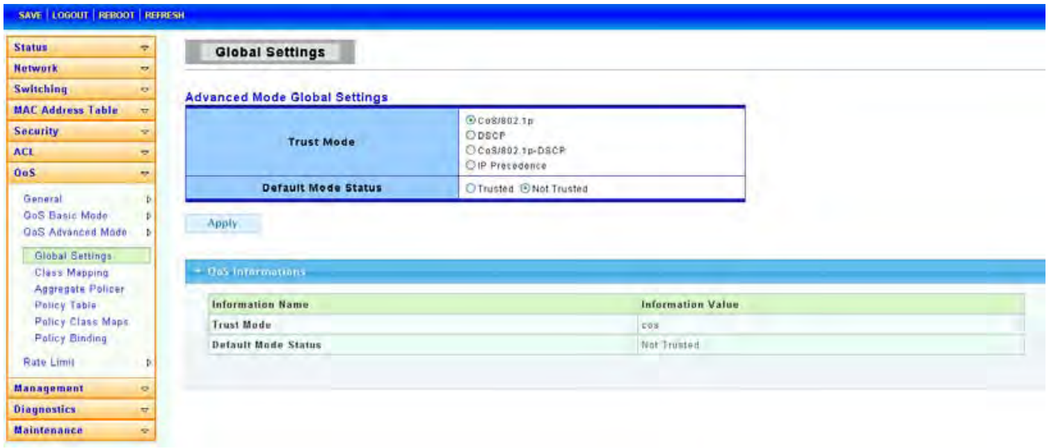
Port	Trust Type
GE1	enabled
GE2	enabled
GE3	enabled
GE4	enabled
GE5	enabled
GE6	enabled
GE7	enabled
GE8	enabled
GE9	enabled
GE10	enabled
GE11	enabled
GE12	enabled
GE13	enabled

QoS Advanced Mode

Global Settings

To display Global Settings web page, click QoS > QoS Advanced Mode > Global Settings

This page allow user to set the default QoS mode state under advanced mode global settings trust mode.



Global Settings

Advanced Mode Global Settings

Trust Mode	● CoS/802.1p ○ DSCP ○ CoS/802.1p-DSCP ○ IP Precedence
Default Mode Status	○ Trusted ● Not Trusted

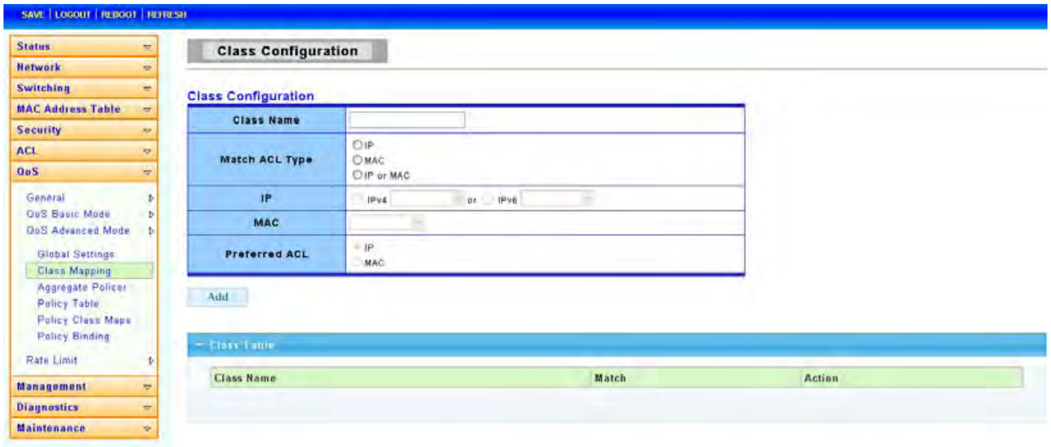
QoS Informations

Information Name	Information Value
Trust Mode	cos
Default Mode Status	Not Trusted

Class Mapping

To display Class Mapping web page, click **QoS > QoS Advanced Mode > Class Mapping**

This page allow user to create a QoS class which is used to link the ACL.



Class Configuration

Class Configuration

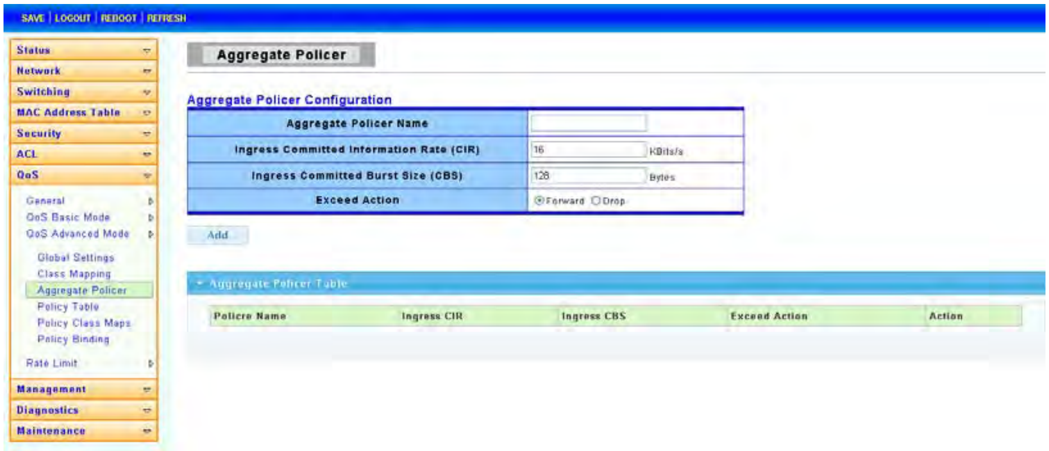
Class Name	
Match ACL Type	○ IP ○ MAC ○ IP or MAC
IP	○ IPv4 or ○ IPv6
MAC	
Preferred ACL	○ IP ○ MAC

Class Table

Class Name	Match	Action

Aggregate Policer

To display Aggregate Policer web page, click **QoS > QoS Advanced Mode > Aggregate Policer**



Aggregate Policer

Aggregate Policer Configuration

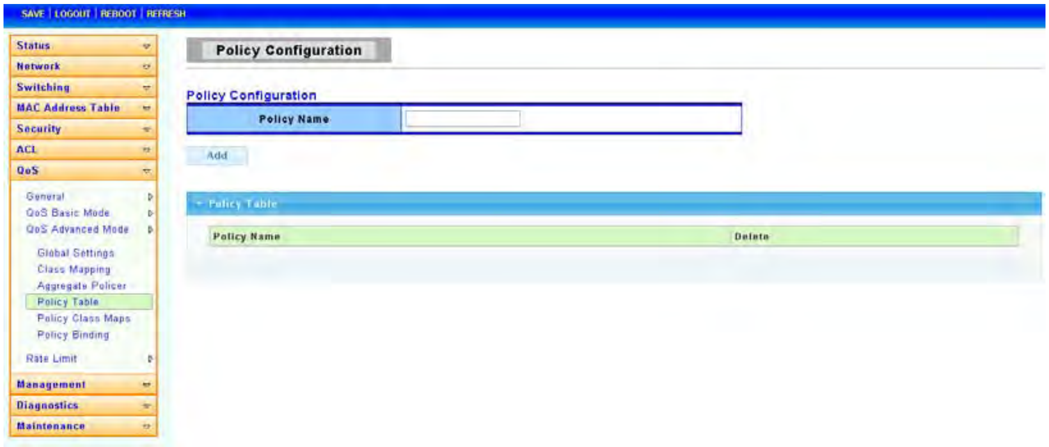
Aggregate Policer Name	
Ingress Committed Information Rate (CIR)	16 KBits/s
Ingress Committed Burst Size (CBS)	128 Bytes
Exceed Action	● Forward ○ Drop

Aggregate Policer Table

Policre Name	Ingress CIR	Ingress CBS	Exceed Action	Action

Policy Table

To display Policy Table web page, click **QoS > QoS Advanced Mode > Policy Table**



Policy Configuration

Policy Configuration

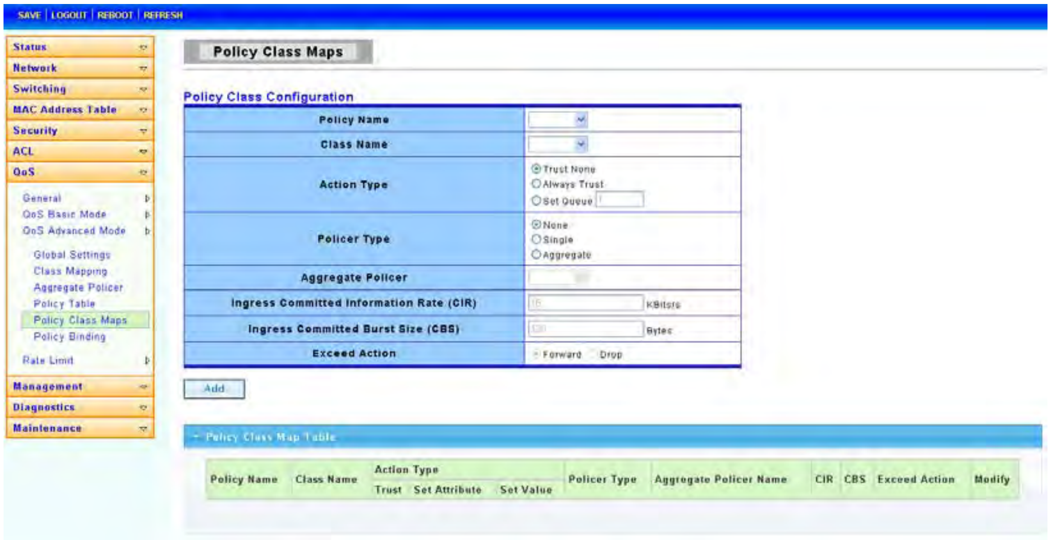
Policy Name	

Policy Table

Policy Name	Delete

Policy Class Maps

To display Policy Class Maps web page, click **QoS > QoS Advanced Mode > Policy Class Maps**



Policy Class Maps

Policy Class Configuration

Policy Name	
Class Name	
Action Type	● Trust None ○ Always Trust ○ Set Queue 1
Policer Type	● None ○ Single ○ Aggregate
Aggregate Policer	
Ingress Committed Information Rate (CIR)	16 KBits/s
Ingress Committed Burst Size (CBS)	128 Bytes
Exceed Action	● Forward ○ Drop

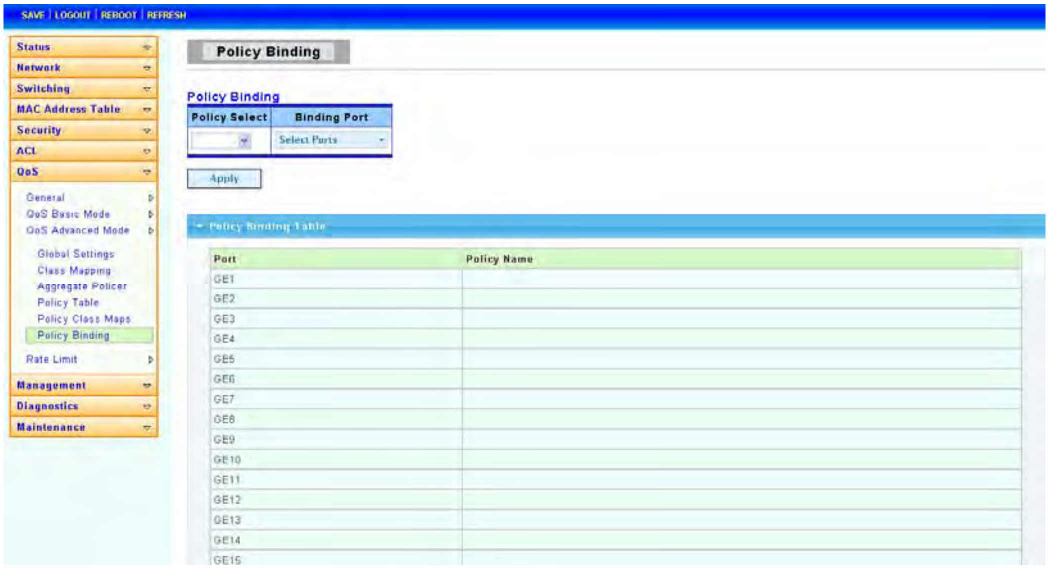
Add

Policy Class Map Table

Policy Name	Class Name	Action Type			Policer Type	Aggregate Policer Name	CIR	CBS	Exceed Action	Modify
		Trust	Set Attribute	Set Value						

Policy Binding

To display Policy Binding web page, click QoS > QoS Advanced Mode > Policy Binding



Policy Binding

Policy Binding

Policy Select	Binding Port
	Select Ports

Apply

Policy Binding Table

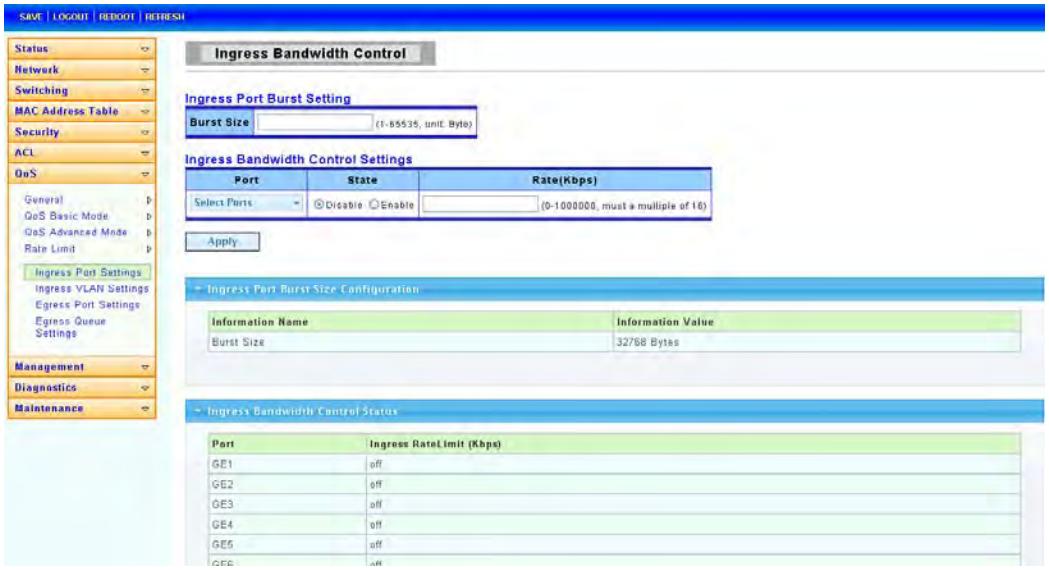
Port	Policy Name
GE1	
GE2	
GE3	
GE4	
GE5	
GE6	
GE7	
GE8	
GE9	
GE10	
GE11	
GE12	
GE13	
GE14	
GE15	

Rate Limit

Ingress Port Settings

To display Ingress Port Settings web page, click QoS > Rate Limit > Ingress Port Settings

This page allow user to set ingress port monitor.



Ingress Bandwidth Control

Ingress Port Burst Setting

Burst Size (1-65535, unit: Byte)

Ingress Bandwidth Control Settings

Port	State	Rate(Kbps)
Select Ports	● Disable ○ Enable	(0-1000000, must a multiple of 16)

Ingress Port Burst Size Configuration

Information Name	Information Value
Burst Size	32768 Bytes

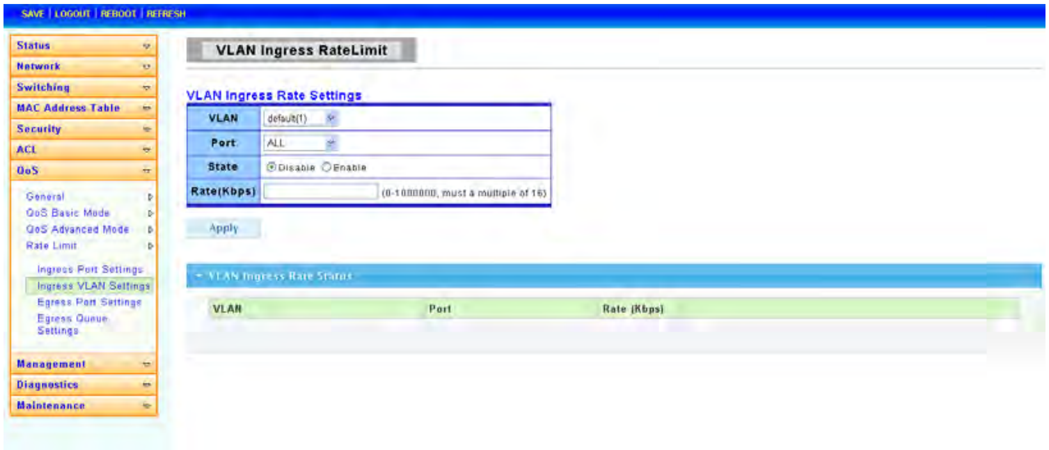
Ingress Bandwidth Control Status

Port	Ingress RateLimit (Kbps)
GE1	off
GE2	off
GE3	off
GE4	off
GE5	off
GE6	off

Ingress VLAN Settings

To display Ingress VLAN Settings web page, click **QoS > Rate Limit > Ingress VLAN Settings**

This page is used to set the bandwidth of the VLAN entry control.



VLAN Ingress RateLimit

VLAN Ingress Rate Settings

VLAN	default(1)
Port	ALL
State	● Disable ○ Enable
Rate(Kbps)	(0-1000000, must a multiple of 16)

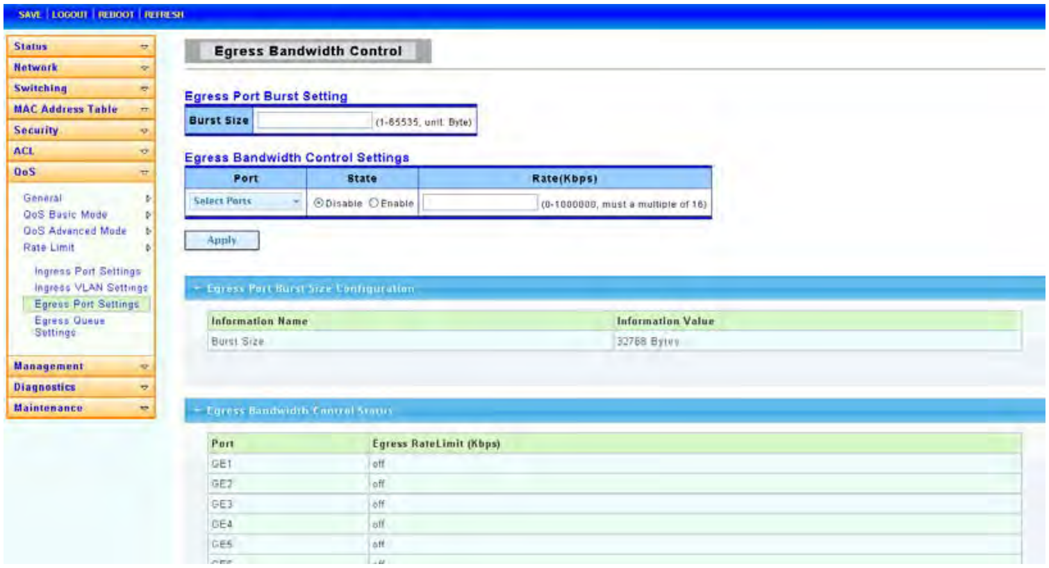
VLAN Ingress Rate Status

VLAN	Port	Rate (Kbps)

Egress Port Settings

To display Egress Port Settings web page, click **QoS > Rate Limit > Egress Port Settings**

This page is used to set the egress port monitor.



Egress Bandwidth Control

Egress Port Burst Setting

Burst Size (1-65535, unit: Byte)

Egress Bandwidth Control Settings

Port	State	Rate(Kbps)
Select Ports	● Disable ○ Enable	(0-1000000, must a multiple of 16)

Egress Port Burst Size Configuration

Information Name	Information Value
Burst Size	32768 Bytes

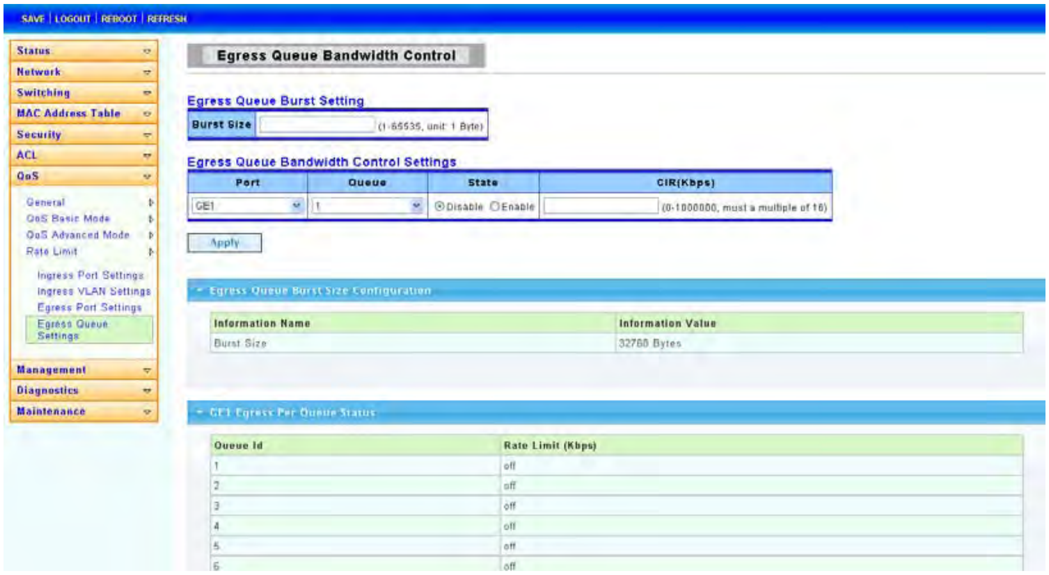
Egress Bandwidth Control Status

Port	Egress RateLimit (Kbps)
GE1	off
GE2	off
GE3	off
GE4	off
GE5	off

Egress Queue Settings

To display Egress Queue Settings web page, click **QoS > Rate Limit > Egress Queue Settings**

The page is used to set the egress lined up bandwidth monitor.



Egress Queue Bandwidth Control

Egress Queue Burst Setting

Burst Size (1-65535, unit: 1 Byte)

Egress Queue Bandwidth Control Settings

Port	Queue	State	CIR(Kbps)
GE1	1	● Disable ○ Enable	(0-1000000, must a multiple of 16)

Egress Queue Burst Size Configuration

Information Name	Information Value
Burst Size	32768 Bytes

GE1 Egress Per Queue Status

Queue Id	Rate Limit (Kbps)
1	off
2	off
3	off
4	off
5	off
6	off

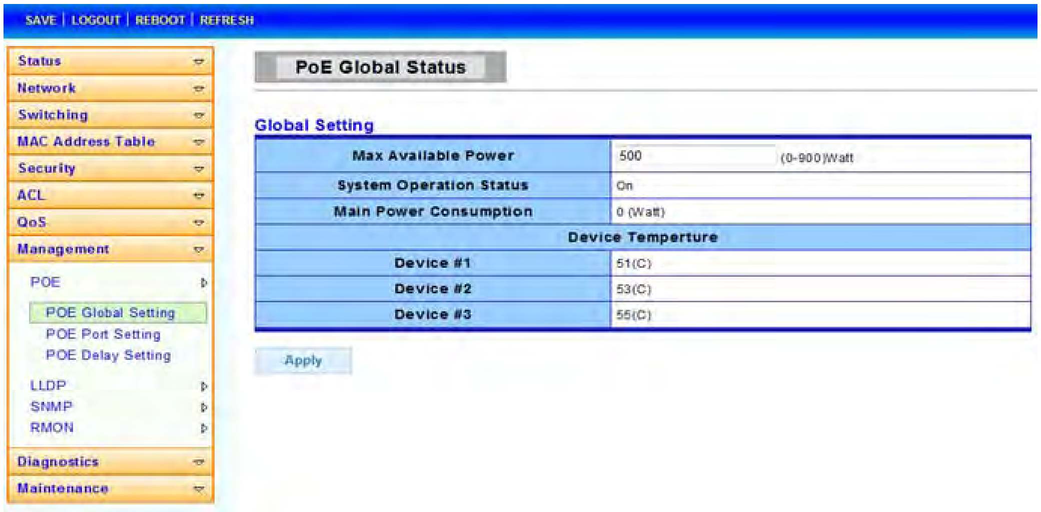
5.8 MANAGEMENT

POE

POE Global Setting

To display POE Global Setting web page, click **Management > POE > POE Global Setting**

This page is used to check POE Status, you can set Max Available Power here.



PoE Global Status

Global Setting

Max Available Power	500 (0-900)Watt
System Operation Status	On
Main Power Consumption	0 (Watt)
Device Temperture	
Device #1	51(C)
Device #2	53(C)
Device #3	55(C)

MAX Available Power: Switch configuration can provide maximum power.

System Operation Status： display POE operation status on or off

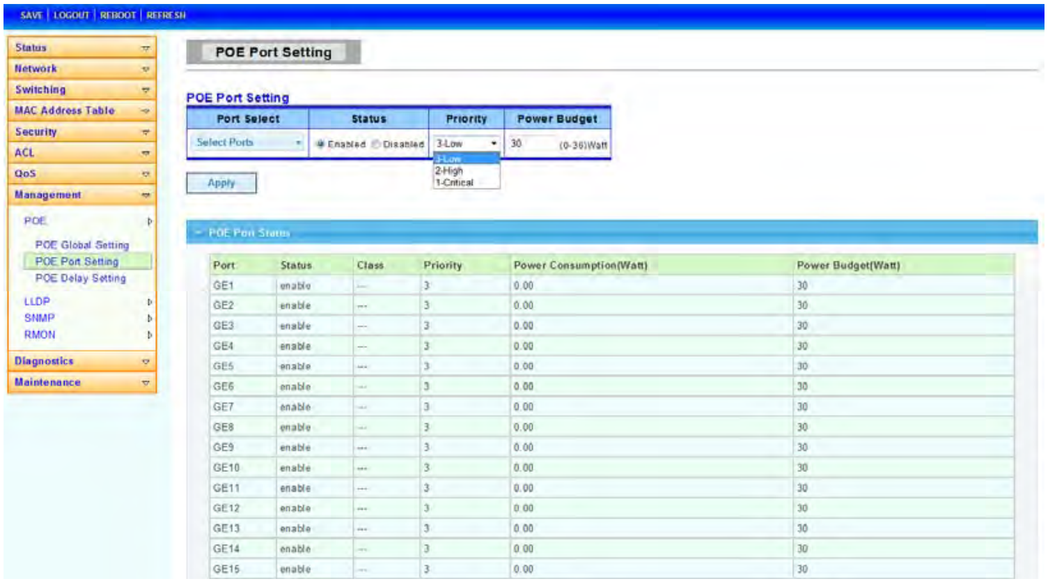
Main Power Consumption: configure main power consumption

Device Temperature: display the temperature of device.

POE Port Setting

To display POE Global Setting web page, click **Management > POE > POE Port Setting**

This page allow user to configure POE setting.



POE Port Setting

POE Port Setting

Port Select	Status	Priority	Power Budget
Select Ports	● Enabled ○ Disabled	3-Low	30 (0-36)Watt

POE Port Status

Port	Status	Class	Priority	Power Consumption(Watt)	Power Budget(Watt)
GE1	enable	---	3	0.00	30
GE2	enable	---	3	0.00	30
GE3	enable	---	3	0.00	30
GE4	enable	---	3	0.00	30
GE5	enable	---	3	0.00	30
GE6	enable	---	3	0.00	30
GE7	enable	---	3	0.00	30
GE8	enable	---	3	0.00	30
GE9	enable	---	3	0.00	30
GE10	enable	---	3	0.00	30
GE11	enable	---	3	0.00	30
GE12	enable	---	3	0.00	30
GE13	enable	---	3	0.00	30
GE14	enable	---	3	0.00	30
GE15	enable	---	3	0.00	30

Port Select: Select specific ports.

Priority: Setting the priority of POE.

Critical

High

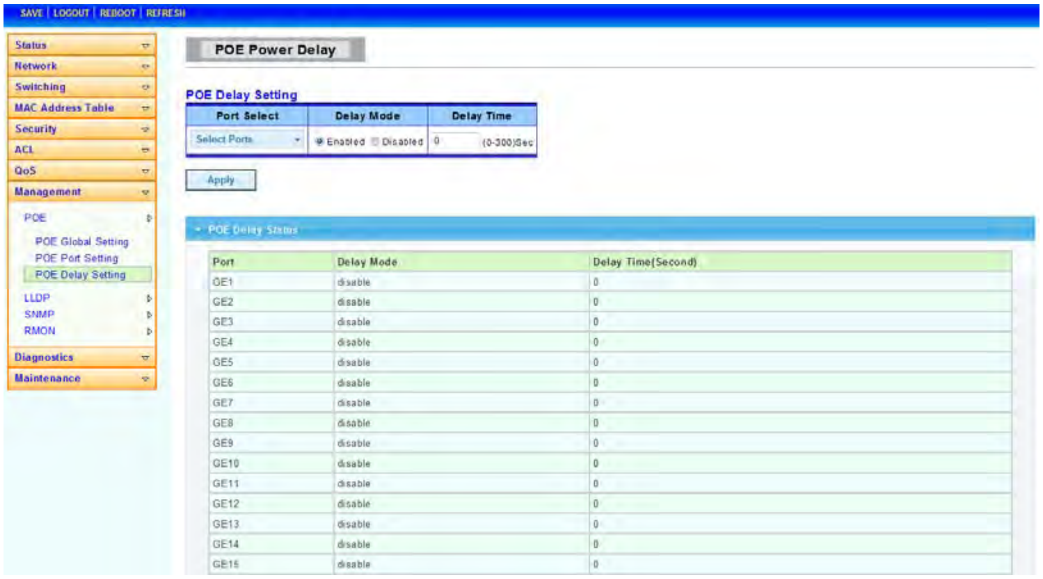
Low

Power Budget: POE port estimation can provide power.

POE Delay Setting

To display POE Global Setting web page, click Management > POE > POE Delay Setting

This page is for setting POE Power Delay.



POE Power Delay

POE Delay Setting

Port Select	Delay Mode	Delay Time
Select Ports	● Enabled ○ Disabled	0 (0-300)Sec

POE Delay Status

Port	Delay Mode	Delay Time(Second)
GE1	disable	0
GE2	disable	0
GE3	disable	0
GE4	disable	0
GE5	disable	0
GE6	disable	0
GE7	disable	0
GE8	disable	0
GE9	disable	0
GE10	disable	0
GE11	disable	0
GE12	disable	0
GE13	disable	0
GE14	disable	0
GE15	disable	0

Port Select: Select specific ports.

Delay Mode: enable or disable delay mode.

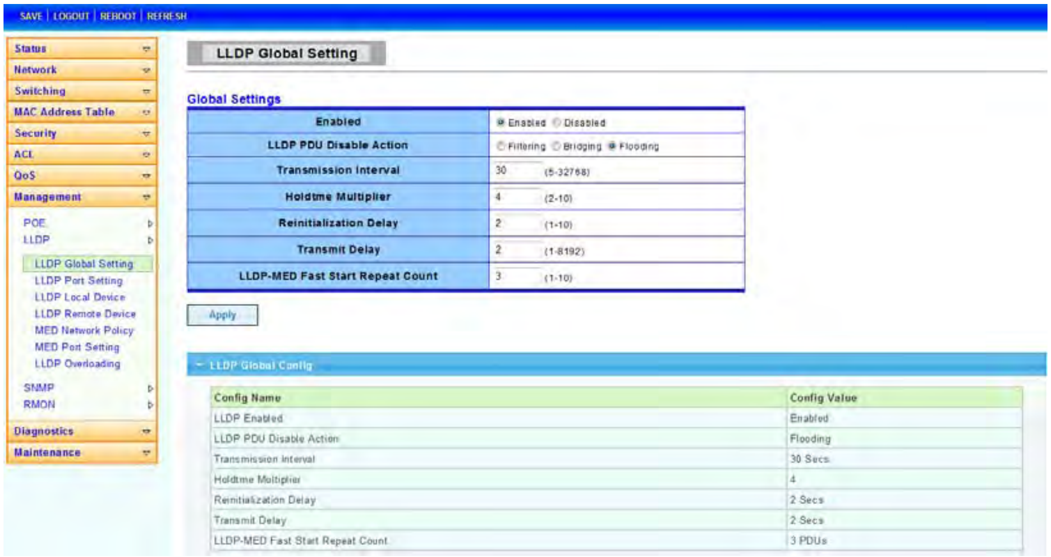
Delay Time: Configuration delay time.

LLDP

LLDP 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.

LLDP Global Settings

To display LLDP Global Settings web page, click **Management > LLDP > LLDP Global Settings**



LLDP Global Setting

Global Settings

Enabled	● Enabled ○ Disabled
LLDP PDU Disable Action	○ Filtering ○ Bridging ● Flooding
Transmission Interval	30 (5-32768)
Holdtme Multiplier	4 (2-10)
Reinitialization Delay	2 (1-10)
Transmit Delay	2 (1-8192)
LLDP-MED Fast Start Repeat Count	3 (1-10)

LLDP Global Config

Config Name	Config Value
LLDP Enabled	Enabled
LLDP PDU Disable Action	Flooding
Transmission Interval	30 Secs
Holdtme Multiplier	4
Reinitialization Delay	2 Secs
Transmit Delay	2 Secs
LLDP-MED Fast Start Repeat Count	3 PDUs

Enabled: Enable/ Disable LLDP protocol on this switch.

Transmission Interval: Select the interval at which frames are transmitted. Thedefault is 30 seconds, and the valid range is 5–32768 seconds.

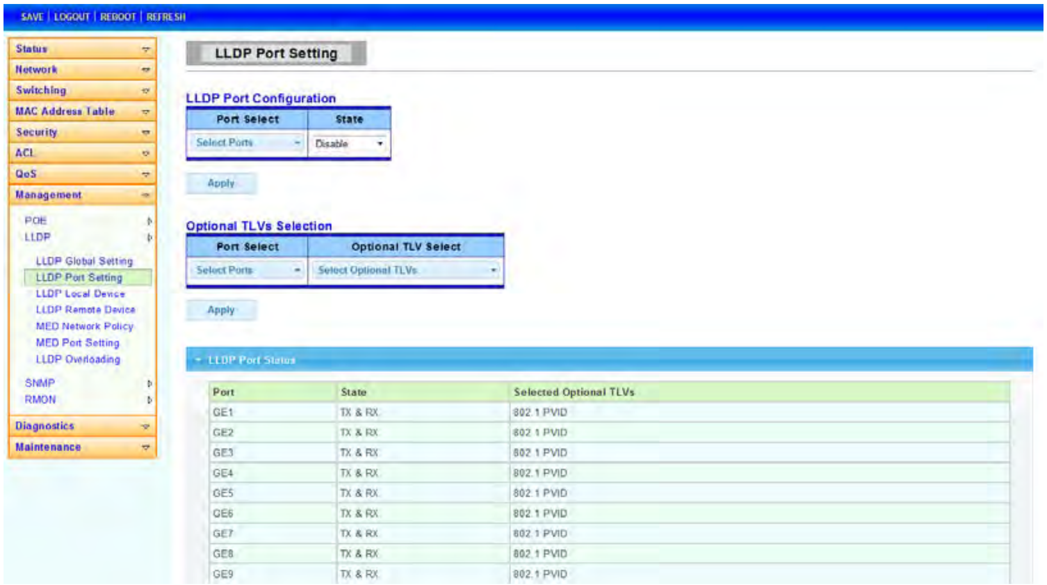
Holdtime Multiplier: Select the multiplier onthe transmit interval to assign to TTL

(range 2–10, default = 4).

Reinitialization Delay: Select the delay before a re-initialization (range 1–10 seconds, default = 2).

LLDP Port Settings

To display LLDP Port Settings web page, click **Management > LLDP > LLDP Port Settings**



LLDP Port Setting

LLDP Port Configuration

Port Select	State
Select Ports	Disable

Optional TLVs Selection

Port Select	Optional TLV Select
Select Ports	Select Optional TLVs

LLDP Port Status

Port	State	Selected Optional TLVs
GE1	TX & RX	802.1 PVID
GE2	TX & RX	802.1 PVID
GE3	TX & RX	802.1 PVID
GE4	TX & RX	802.1 PVID
GE5	TX & RX	802.1 PVID
GE6	TX & RX	802.1 PVID
GE7	TX & RX	802.1 PVID
GE8	TX & RX	802.1 PVID
GE9	TX & RX	802.1 PVID

Port Select: Select specified port or all ports to configure transmission state.

State: Select the transmission state of LLDP port interface.

Disable: Disable the transmission of LLDP PDUs.

RX Only: Receive LLDP PDUs only.

TX Only: Transmit LLDP PDUs only.

TX And RX: Transmit and receive LLDP PDUs both Select specified port or all port configure transmission state.

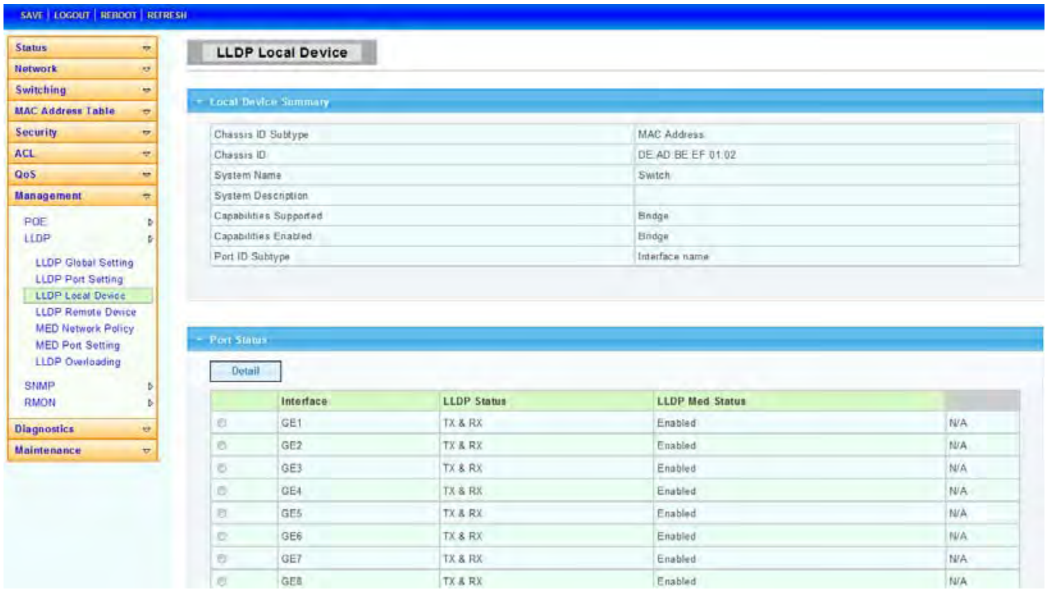
Port Select: Select specific ports.

Optional TLV Select: Select Optional TLVs.

LLDP Local Device

To display LLDP Local Device web page, click Management > LLDP > LLDP Local Device

Use the LLDP Local Device page to view information about devices on the network for which the switch has received LLDP information.



LLDP Local Device

Local Device Summary

Chassis ID Subtype	MAC Address
Chassis ID	DE:AD:BE:EF:01:02
System Name	Switch
System Description	
Capabilities Supported	Bridge
Capabilities Enabled	Bridge
Port ID Subtype	Interface name

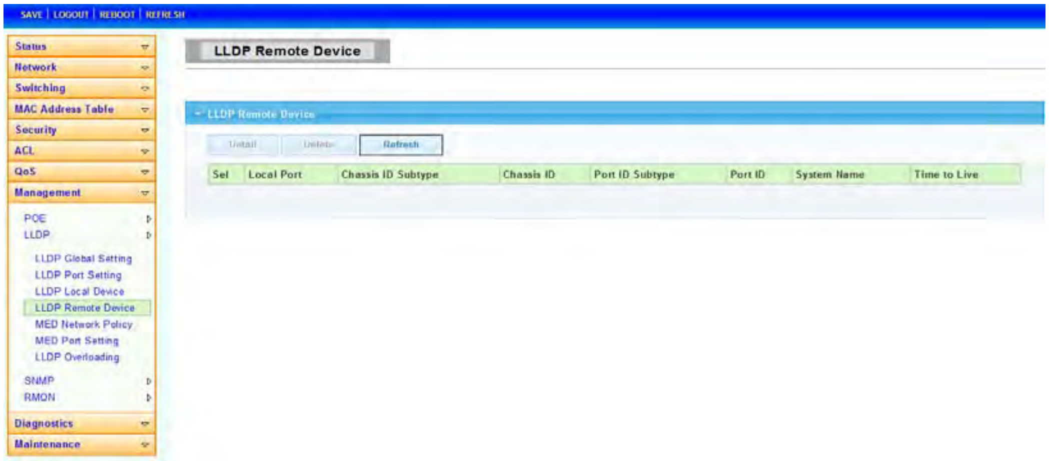
Port Status

	Interface	LLDP Status	LLDP Med Status	
○	GE1	TX & RX	Enabled	N/A
○	GE2	TX & RX	Enabled	N/A
○	GE3	TX & RX	Enabled	N/A
○	GE4	TX & RX	Enabled	N/A
○	GE5	TX & RX	Enabled	N/A
○	GE6	TX & RX	Enabled	N/A
○	GE7	TX & RX	Enabled	N/A
○	GE8	TX & RX	Enabled	N/A

LLDP Remote Device

To display LLDP Remote Device web page, click Management > LLDP > LLDP Remote Device

Use the LLDP Remote Device page to view information about remote devices for which the switch has received LLDP information.



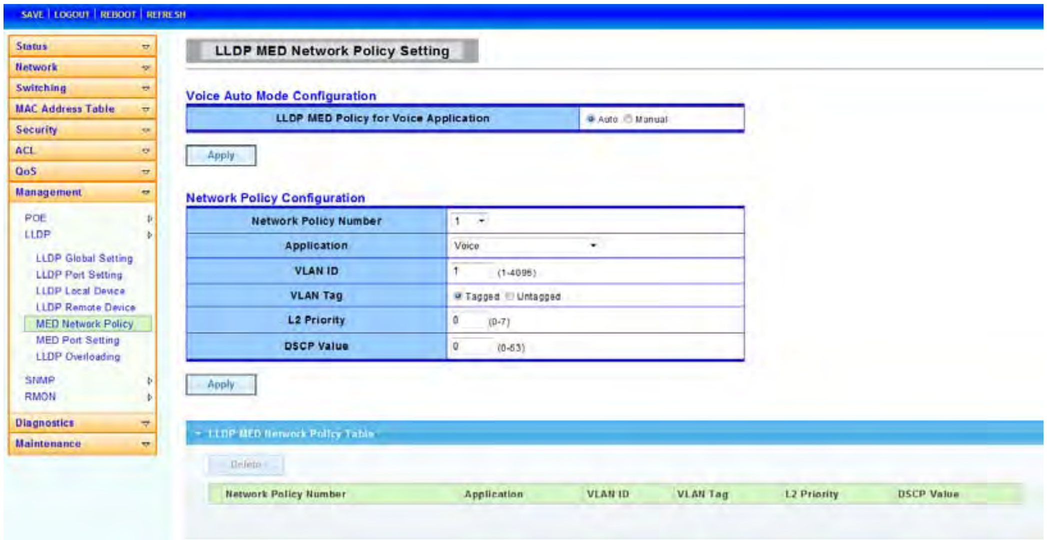
LLDP Remote Device

LLDP Remote Device

Sel	Local Port	Chassis ID Subtype	Chassis ID	Port ID Subtype	Port ID	System Name	Time to Live

LLDP Network Policy

To display LLDP Network Policy web page, click Management > LLDP > LLDP Network Policy



LLDP MED Network Policy Setting

Voice Auto Mode Configuration

LLDP MED Policy for Voice Application	● Auto ○ Manual

Network Policy Configuration

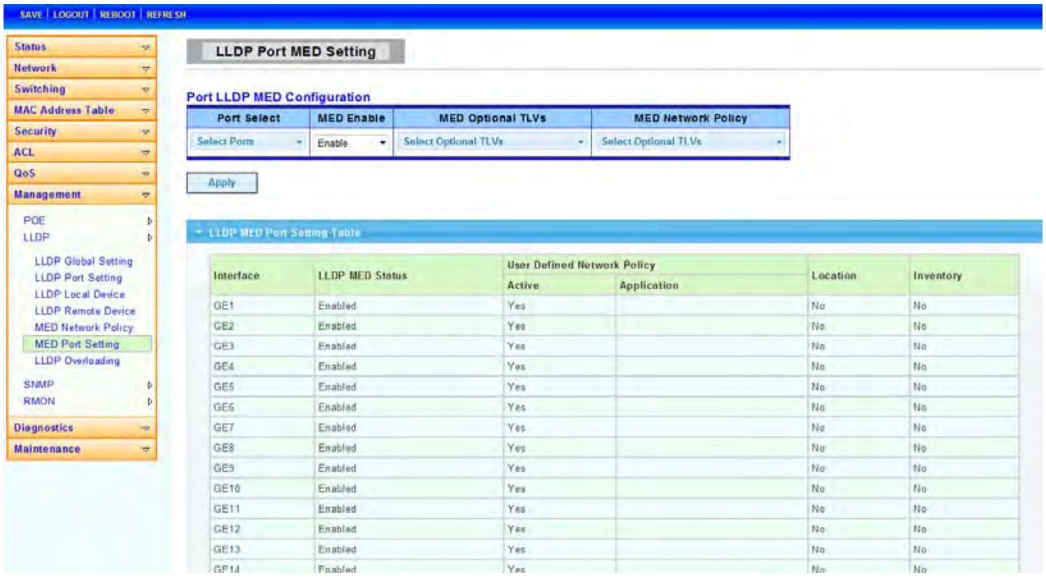
Network Policy Number	1
Application	Voice
VLAN ID	1 (1-4095)
VLAN Tag	● Tagged ○ Untagged
L2 Priority	0 (0-7)
DSCP Value	0 (0-63)

LLDP MED Network Policy Table

Network Policy Number	Application	VLAN ID	VLAN Tag	L2 Priority	DSCP Value

MED Port Setting

To display MED Port Setting web page, click **Management > LLDP > MED Port Setting**



LLDP Port MED Setting

Port LLDP MED Configuration

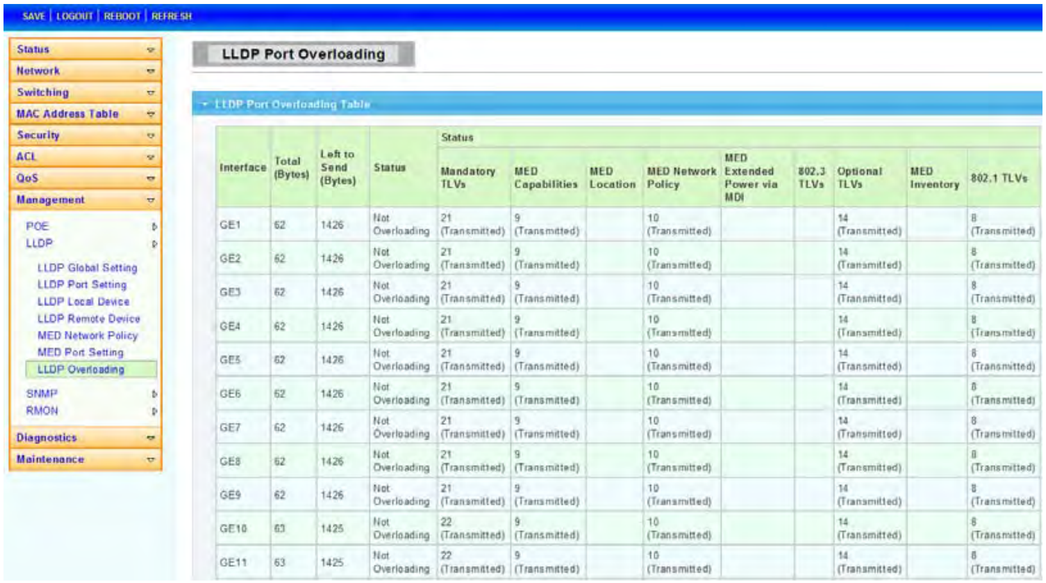
Port Select	MED Enable	MED Optional TLVs	MED Network Policy
Select Ports	Enable	Select Optional TLVs	Select Optional TLVs

LLDP MED Port Setting Table

Interface	LLDP MED Status	User Defined Network Policy		Location	Inventory
		Active	Application		
GE1	Enabled	Yes		No	No
GE2	Enabled	Yes		No	No
GE3	Enabled	Yes		No	No
GE4	Enabled	Yes		No	No
GE5	Enabled	Yes		No	No
GE6	Enabled	Yes		No	No
GE7	Enabled	Yes		No	No
GE8	Enabled	Yes		No	No
GE9	Enabled	Yes		No	No
GE10	Enabled	Yes		No	No
GE11	Enabled	Yes		No	No
GE12	Enabled	Yes		No	No
GE13	Enabled	Yes		No	No
GE14	Enabled	Yes		No	No

LLDP Overloading

To display LLDP Overloading web page, click **Management > LLDP > LLDP Overloading**



LLDP Port Overloading

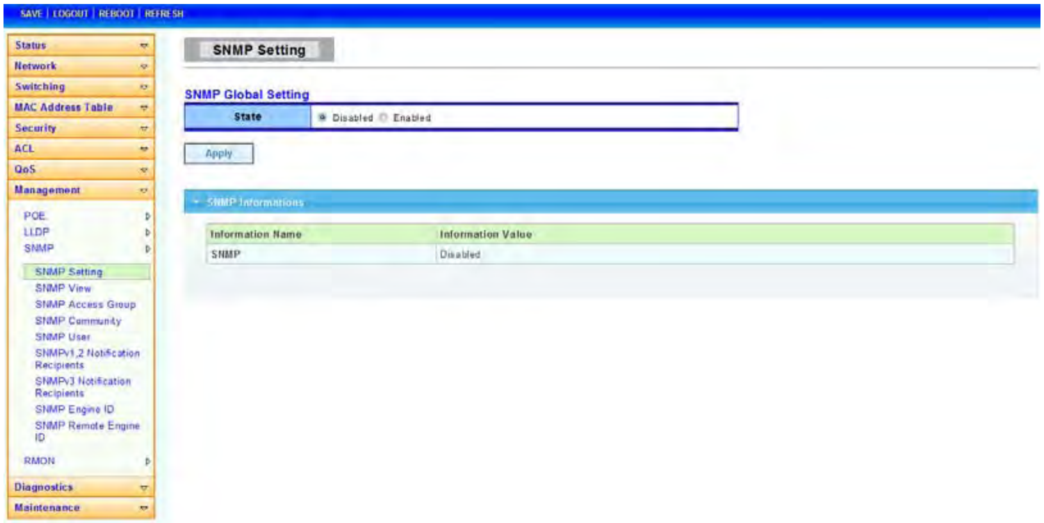
LLDP Port Overloading Table

Interface	Total (Bytes)	Left to Send (Bytes)	Status	Status								
				Mandatory TLVs	MED Capabilities	MED Location	MED Network Policy	MED Extended Power via MDI	802.3 TLVs	Optional TLVs	MED Inventory	802.1 TLVs
GE1	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE2	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE3	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE4	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE5	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE6	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE7	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE8	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE9	62	1426	Not Overloading	21 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE10	63	1425	Not Overloading	22 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)
GE11	63	1425	Not Overloading	22 (Transmitted)	9 (Transmitted)		10 (Transmitted)			14 (Transmitted)		8 (Transmitted)

SNMP

SNMP Setting

To display SNMP Setting web page, click **Management > SNMP > SNMP Setting**



SNMP Setting

SNMP Global Setting

State: ● Disabled ○ Enabled

SNMP Informations

Information Name	Information Value
SNMP	Disabled

State: SNMP daemon state

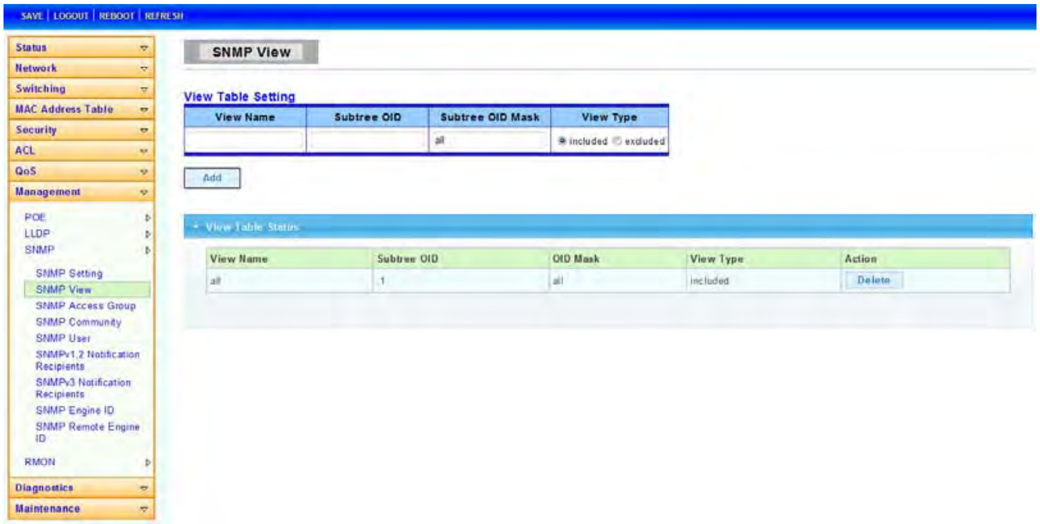
Enabled: Enable SNMP daemon

Disabled: Disable SNMP daemon

SNMP View

To display SNMP View web page, click **Management > SNMP > SNMP View**

This page is used to configure SNMP view.Used in the SNMP message Management variables (OID) to describe the switch in the Management object,MIB (Management Information Base,Management Information Base) is a set of the monitoring network equipment Management variables.View is used to control variable is how to be managed.



View Table Setting

View Name	Subtree OID	Subtree OID Mask	View Type
		all	● included ○ excluded

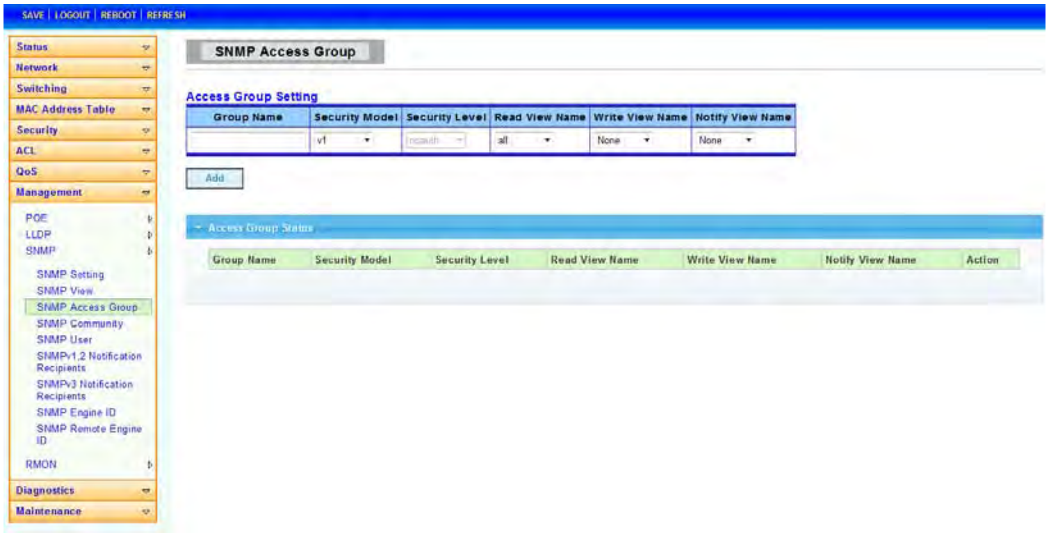
View Table Status

View Name	Subtree OID	OID Mask	View Type	Action
all	.1	all	included	Delete

SNMP Access Group

To display SNMP Access Group web page, click Management > SNMP > SNMP Access Group

This page is used to configure SNMP group ,Within the group by the user read-only, only write, inform the view to achieve the goal of access control.



Access Group Setting

Group Name	Security Model	Security Level	Read View Name	Write View Name	Notify View Name
	v1	noauth	all	None	None

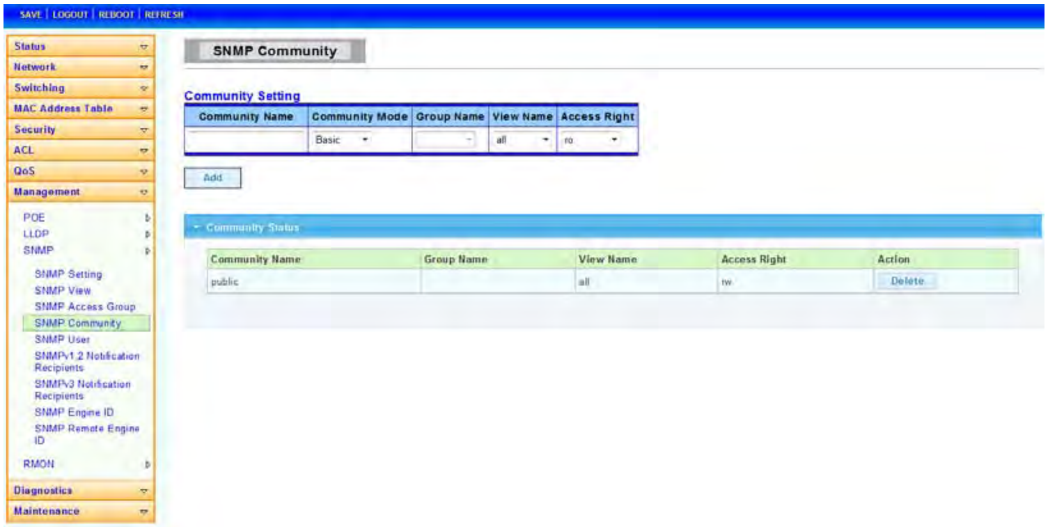
Access Group Status

Group Name	Security Model	Security Level	Read View Name	Write View Name	Notify View Name	Action

SNMP Community

To display SNMP Community web page, click Management > SNMP > SNMP Community

SNMP v1 and the SNMP v2c USES the group Name (Community Name) certification, the group has played a role similar to the password.If use SNMP v1 and SNMP v2c, after configuration view, can be directly on this page to configure SNMP community.



SNMP Community

Community Setting

Community Name	Community Mode	Group Name	View Name	Access Right
	Basic		all	ro

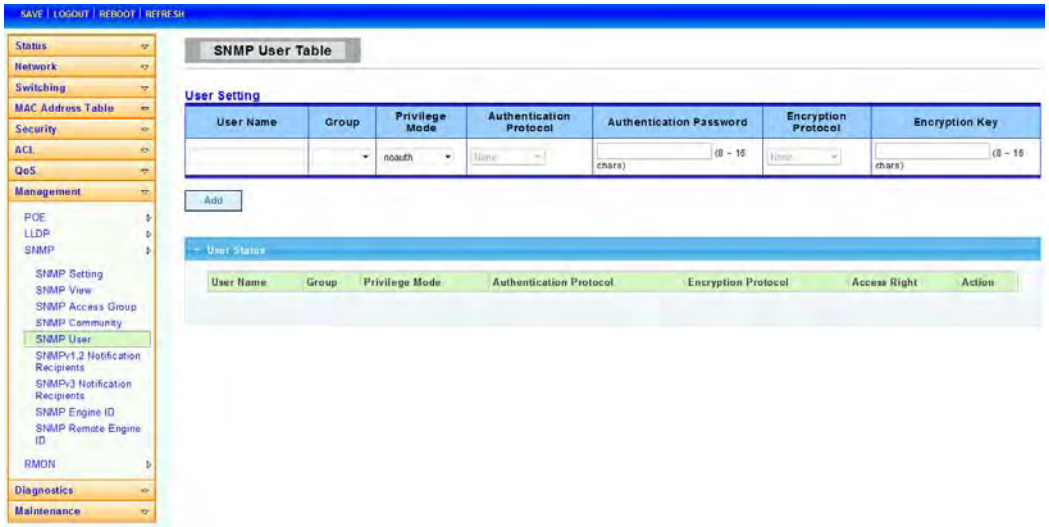
Community Status

Community Name	Group Name	View Name	Access Right	Action
public		all	rw	Delete

SNMP User

To display SNMP User web page, click Management > SNMP > SNMP User

This page is used to create SNMP user under the group,And the group with the same level of security and access control permissions.



SNMP User Table

User Setting

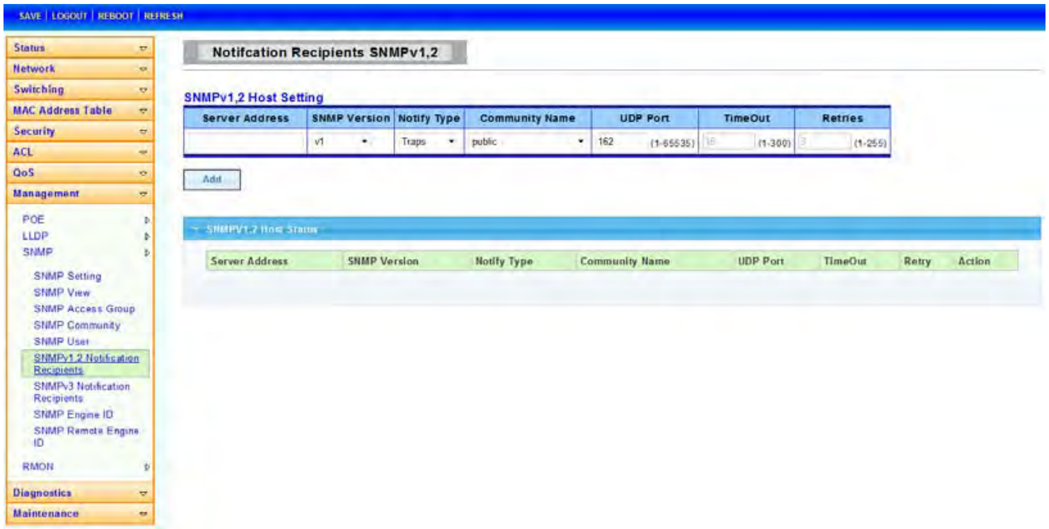
User Name	Group	Privilege Mode	Authentication Protocol	Authentication Password	Encryption Protocol	Encryption Key
		noauth	None	(8 - 16 chars)	None	(8 - 16 chars)

User Status

User Name	Group	Privilege Mode	Authentication Protocol	Encryption Protocol	Access Right	Action

SNMPv1,2 Notifcation Recipients

To display SNMPv1,2 Notifcation Recipients web page, click Management > SNMP > SNMPv1,2 Notifcation Recipients



Notifcation Recipients SNMPv1,2

SNMPv1,2 Host Setting

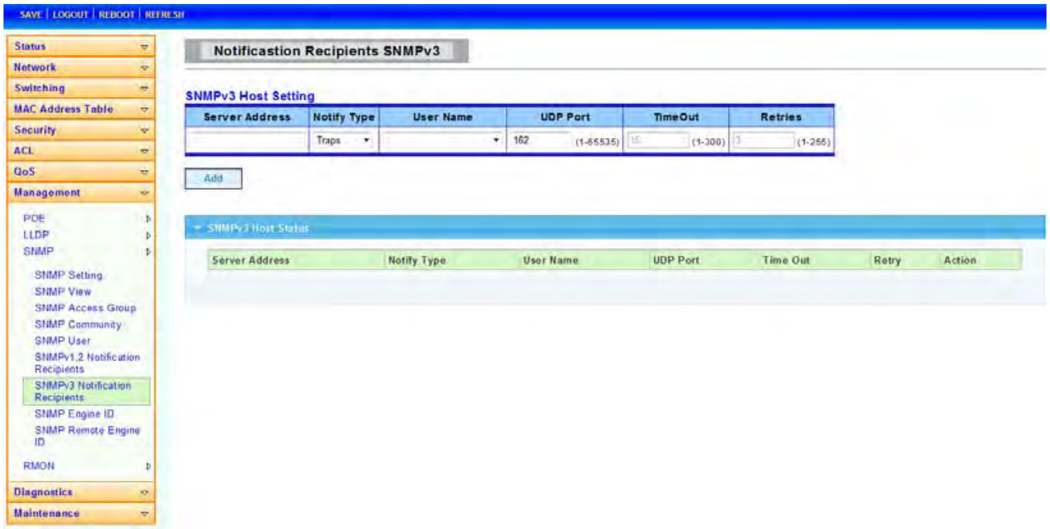
Server Address	SNMP Version	Notify Type	Community Name	UDP Port	TimeOut	Retries
	v1	Traps	public	162 (1-65535)	15 (1-300)	3 (1-255)

SNMPV1,2 Host Status

Server Address	SNMP Version	Notify Type	Community Name	UDP Port	TimeOut	Retry	Action

SNMPv3 Notification Recipients

To display SNMPv3 Notification Recipients web page, click **Management > SNMP > SNMPv3 Notification Recipients**



Notificastion Recipients SNMPv3

SNMPv3 Host Setting

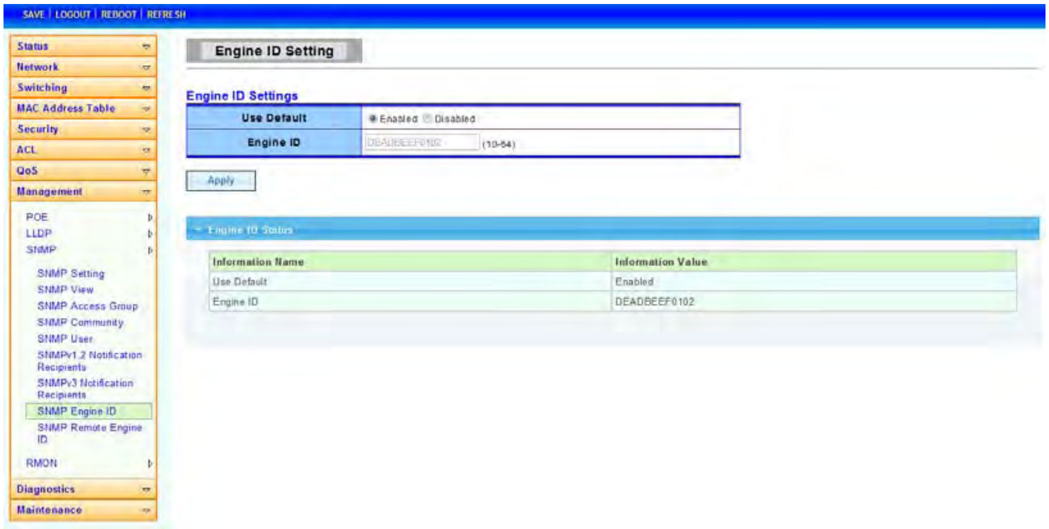
Server Address	Notify Type	User Name	UDP Port	TimeOut	Retries
	Traps		162 (1-65535)	15 (1-300)	3 (1-255)

SNMPv3 Host Status

Server Address	Notify Type	User Name	UDP Port	Time Out	Retry	Action

SNMP Engine ID

To display SNMP Engine ID web page, click **Management > SNMP > SNMP Engine ID**



Engine ID Setting

Engine ID Settings

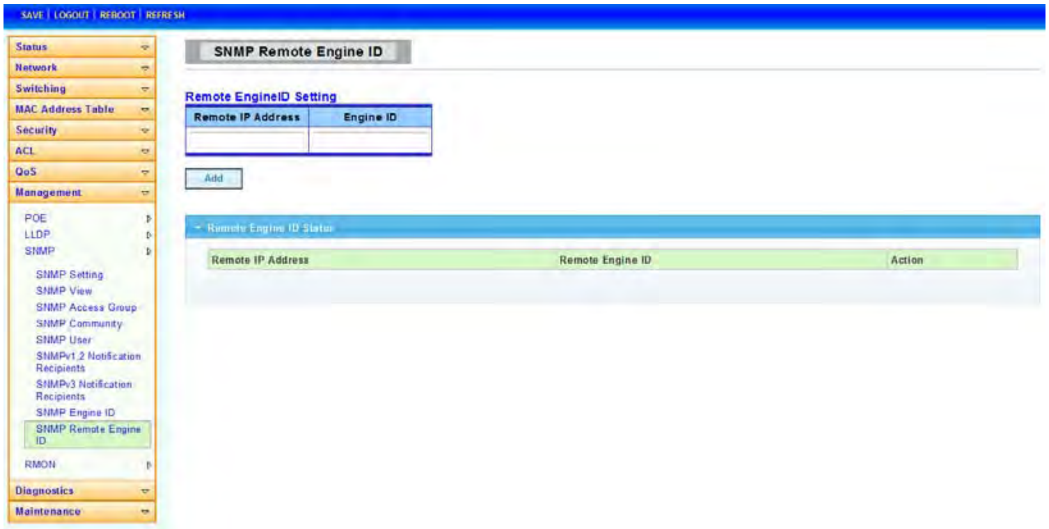
Use Default	● Enabled ○ Disabled
Engine ID	DEADBEEF0102 (10-64)

Engine ID Status

Information Name	Information Value
Use Default	Enabled
Engine ID	DEADBEEF0102

SNMP Remote Engine ID

To display SNMP Remote Engine ID web page, click **Management > SNMP > SNMP Remote Engine ID**



SNMP Remote Engine ID

Remote EngineID Setting

Remote IP Address	Engine ID

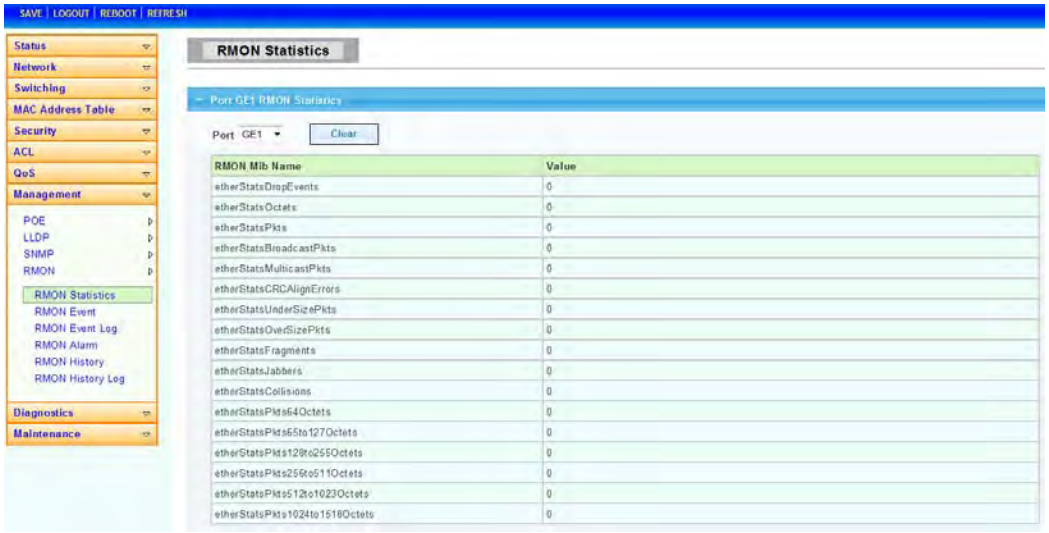
Remote Engine ID Status

Remote IP Address	Remote Engine ID	Action

RMON

RMON Statistics

To display RMON Statistics web page, click **Management > RMON > RMON Statistics**



RMON Statistics

Port GE1 RMON Statistics

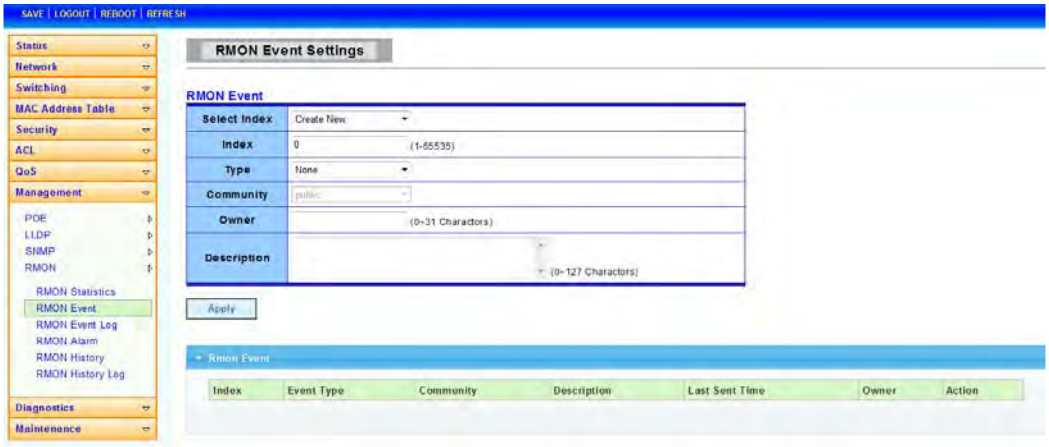
Port GE1

RMON Mib Name	Value
etherStatsDropEvents	0
etherStatsOctets	0
etherStatsPkts	0
etherStatsBroadcastPkts	0
etherStatsMulticastPkts	0
etherStatsCRCAlignErrors	0
etherStatsUnderSizePkts	0
etherStatsOverSizePkts	0
etherStatsFragments	0
etherStatsJabbers	0
etherStatsCollisions	0
etherStatsPkts64Octets	0
etherStatsPkts65to127Octets	0
etherStatsPkts128to255Octets	0
etherStatsPkts256to511Octets	0
etherStatsPkts512to1023Octets	0
etherStatsPkts1024to1518Octets	0

RMON Event

To display RMON Event web page, click **Management > RMON > RMON Event**

This page is used to configure RMON event group.



RMON Event Settings

RMON Event

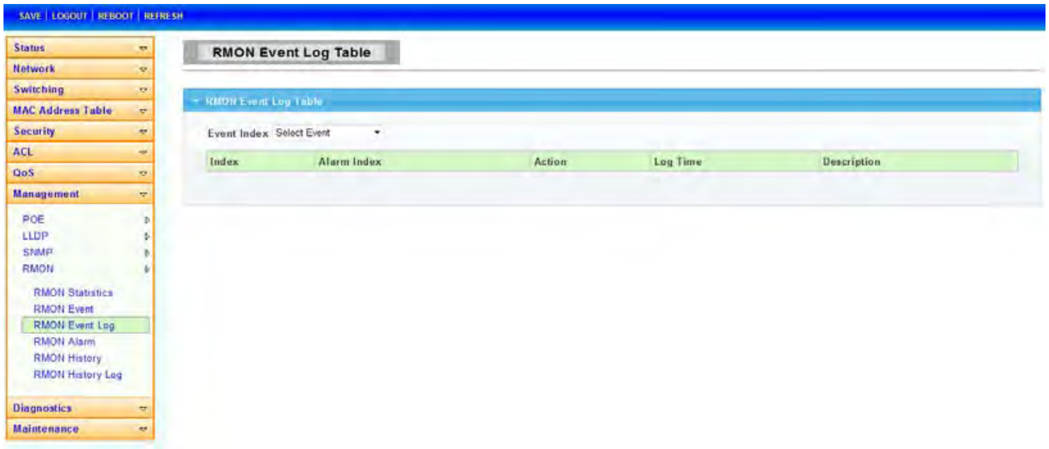
Select Index	Create New
Index	0 (1-65535)
Type	None
Community	public
Owner	(0-31 Charactors)
Description	(0-127 Charactors)

Rmon Event

Index	Event Type	Community	Description	Last Sent Time	Owner	Action

RMON Event Log

To display RMON Event Logweb page, click **Management > RMON > RMON Event Log**



RMON Event Log Table

RMON Event Log Table

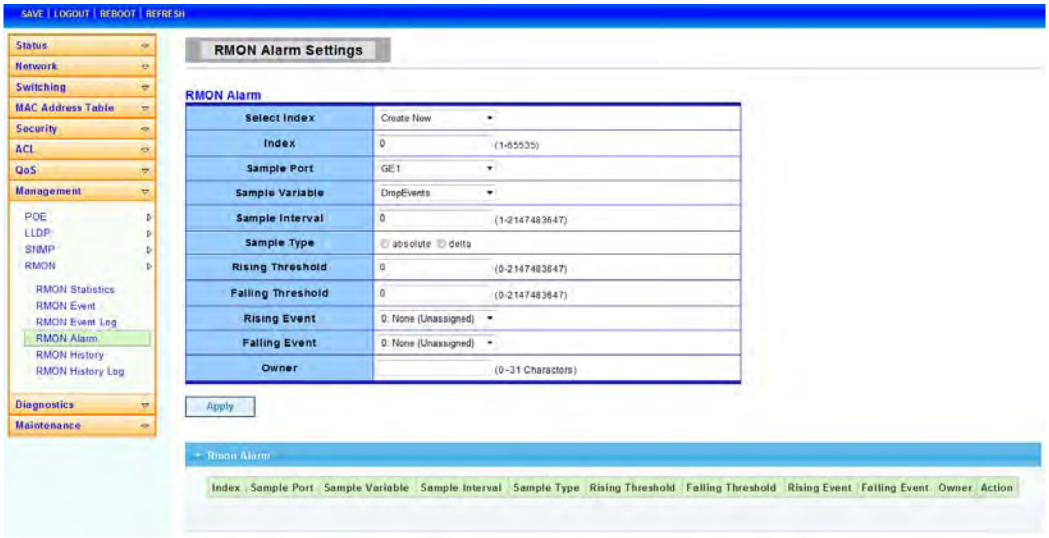
Event Index: Select Event

Index	Alarm Index	Action	Log Time	Description

RMON Alarm

To display RMON Alarm web page, click Management > RMON > RMON Alarm

This page is used to configure RMON statistics group and alarm group.



RMON Alarm Settings

RMON Alarm

Select Index	Create New
Index	0 (1-65535)
Sample Port	GE1
Sample Variable	DropEvents
Sample Interval	0 (1-2147483647)
Sample Type	○ absolute ○ delta
Rising Threshold	0 (0-2147483647)
Falling Threshold	0 (0-2147483647)
Rising Event	0: None (Unassigned)
Falling Event	0: None (Unassigned)
Owner	(0~31 Characters)

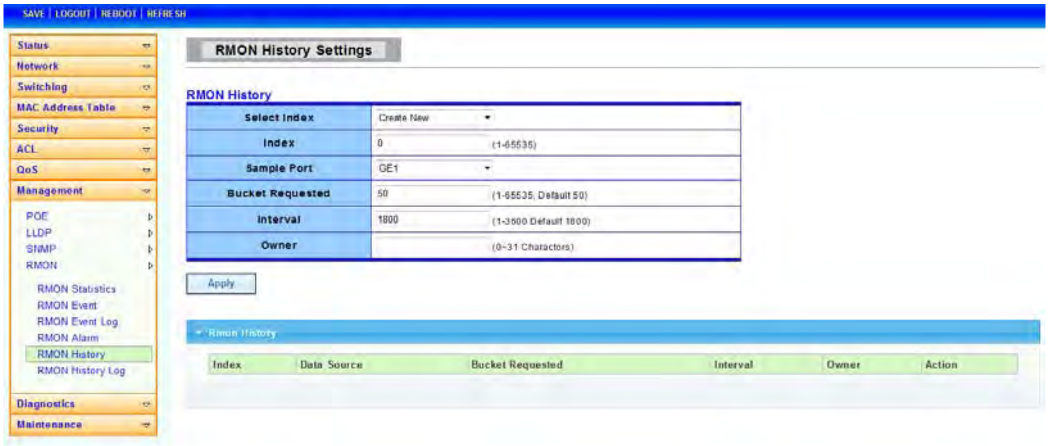
Rmon Alarm

Index	Sample Port	Sample Variable	Sample Interval	Sample Type	Rising Threshold	Falling Threshold	Rising Event	Falling Event	Owner	Action

RMON History

To display RMON History web page, click Management > RMON > RMON History

This page is used to configure the PMON history group.



RMON History Settings

RMON History

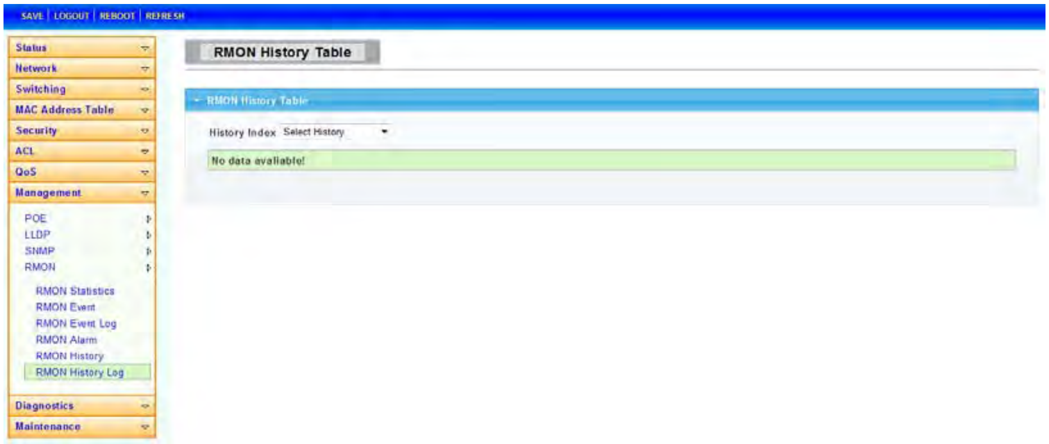
Select Index	Create New	
Index	0	(1-65535)
Sample Port	GE1	
Bucket Requested	50	(1-65535, Default 50)
Interval	1800	(1-3600 Default 1800)
Owner		(0~31 Characters)

Rmon History

Index	Data Source	Bucket Requested	Interval	Owner	Action

RMON History Log

To display RMON History Log web page, click **Management > RMON > RMON History Log**



RMON History Table

RMON History Table

History Index: Select History

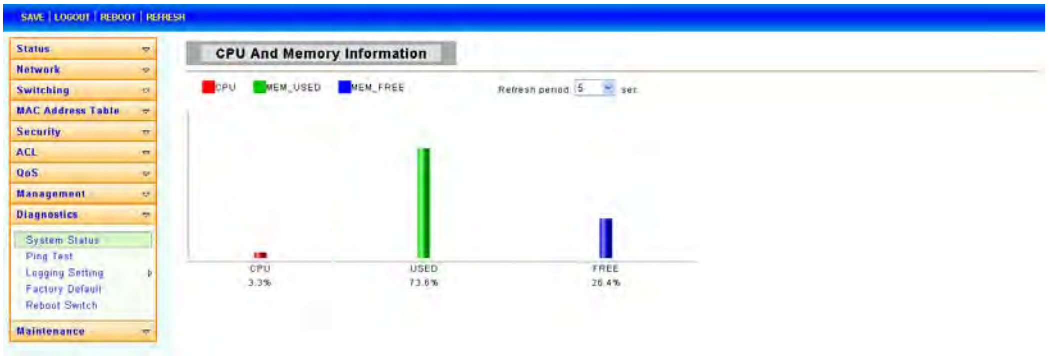
No data avaliable!

5.9 DIAGNOSTICS

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

System Status

To display System Status Log web page, click **Diagnostics > System Status**

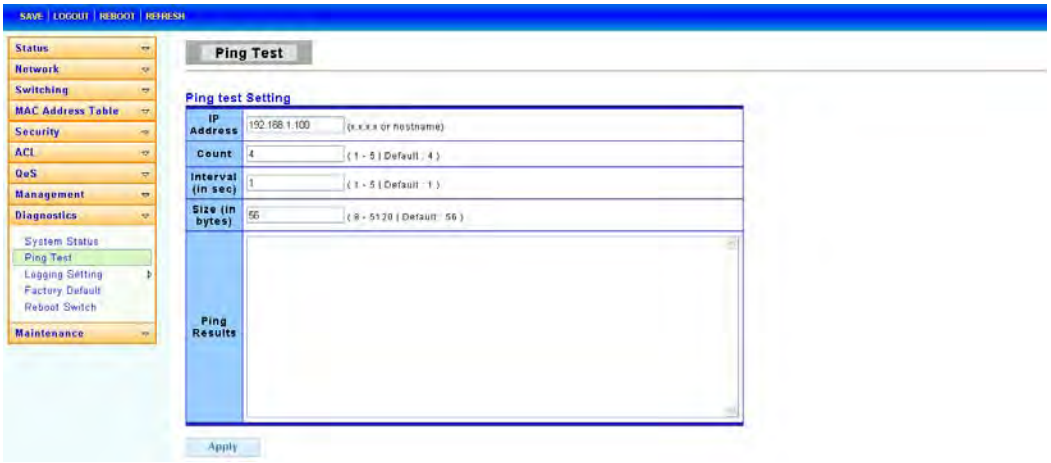


CPU And Memory Information

Refresh period 5 sec

Ping Test

To display Ping Test Log web page, click **Diagnostics > Ping Test**



Ping Test

Ping test Setting

IP Address	192.168.1.100 (x.x.x.x or hostname)
Count	4 (1 - 5 | Default : 4)
Interval (in sec)	1 (1 - 5 | Default : 1)
Size (in bytes)	56 (8 - 5120 | Default : 56)
Ping Results	

IP Address: The IP address of ping target.

Count: How many times to send ping request packet.

Interval: Time interval between each ping request packet.

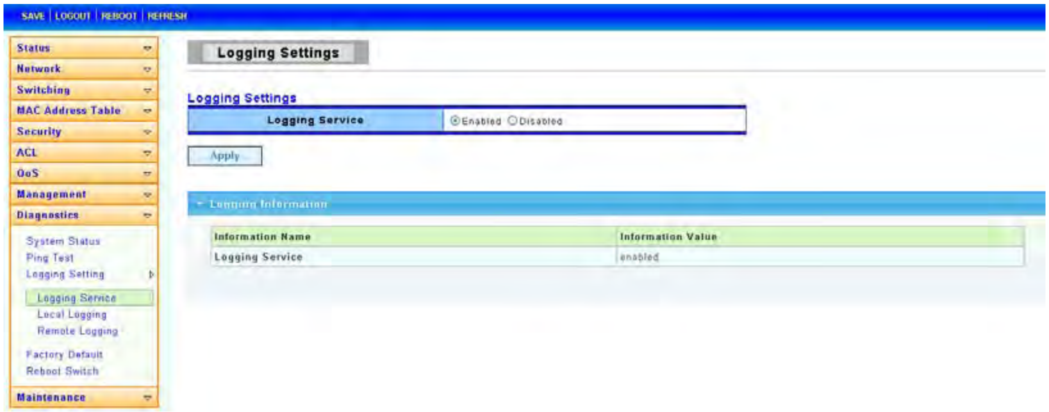
Size: The size of ping packet.

Ping Results: After ping finished, results will show in this field.

Logging Setting

Logging Service

To display Logging Service web page, click **Diagnostics > Logging Setting > Logging Service**



Logging Settings

Logging Settings

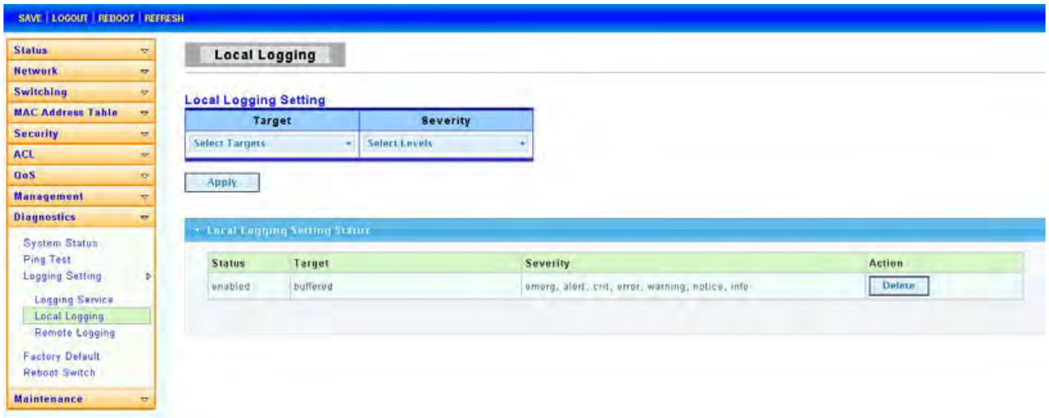
Logging Service: ● Enabled ○ Disabled

Logging Information

Information Name	Information Value
Logging Service	enabled

Local Logging

To display Local Logging web page, click **Diagnostics > Logging Setting > Local Logging**



Local Logging

Local Logging Setting

Target	Severity
Select Targets	Select Levels

Local Logging Setting Status

Status	Target	Severity	Action
enabled	buffered	emerg, alert, crit, error, warning, notice, info	Delete

Target: Select the target to store log message

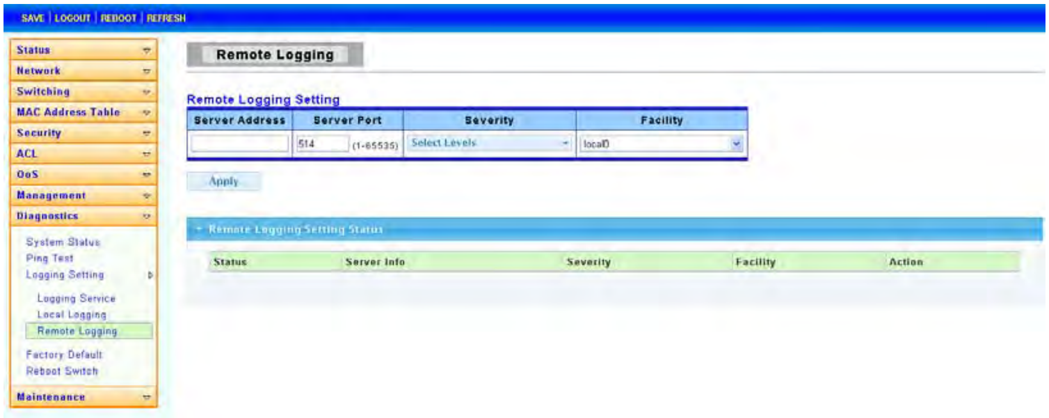
RAM: Store log messages in RAM disk. All log messages will disappear after system reboot.

FLASH: Store log messages in FLASH. All log messages will not disappear after system reboot.

Severity: Select severity of log messages which will be stored.

Remote Logging

To display Remote Logging web page, click **Diagnostics > Logging Setting > Remote Logging**



Remote Logging

Remote Logging Setting

Server Address	Server Port	Severity	Facility
	514 (1-65535)	Select Levels	local0

Remote Logging Setting Status

Status	Server Info	Severity	Facility	Action

Server Address: The IP address of remote log server.

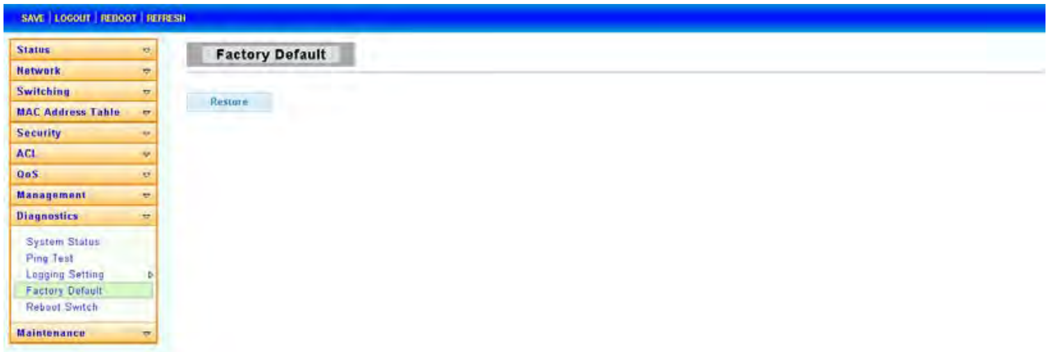
Server Port:The Port number of remote log server.

Severity: Select severity of log messages which will be sent.

Factory Default

To display Factory Default web page, click **Diagnostics > Factory Default**

This page allow user to restore switch to factory default by pushing “Restore” button.

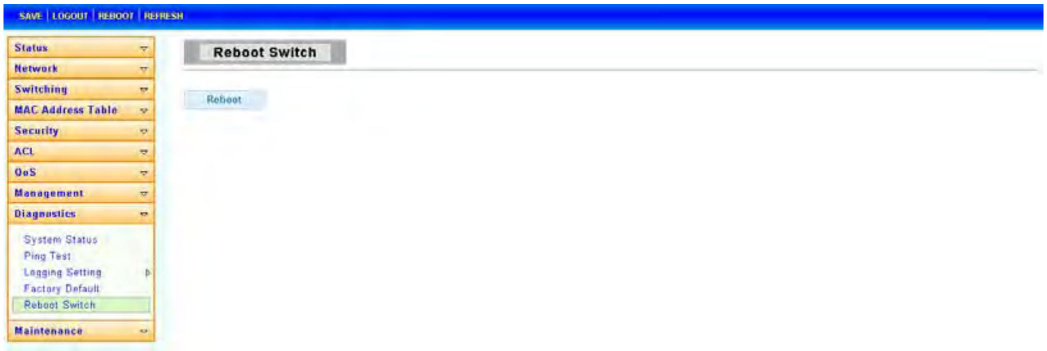


Factory Default

Reboot Switch

To display Reboot Switch web page, click **Diagnostics > Reboot Switch**

This page allow user to reboot the switch by pushing“Reboot”button.



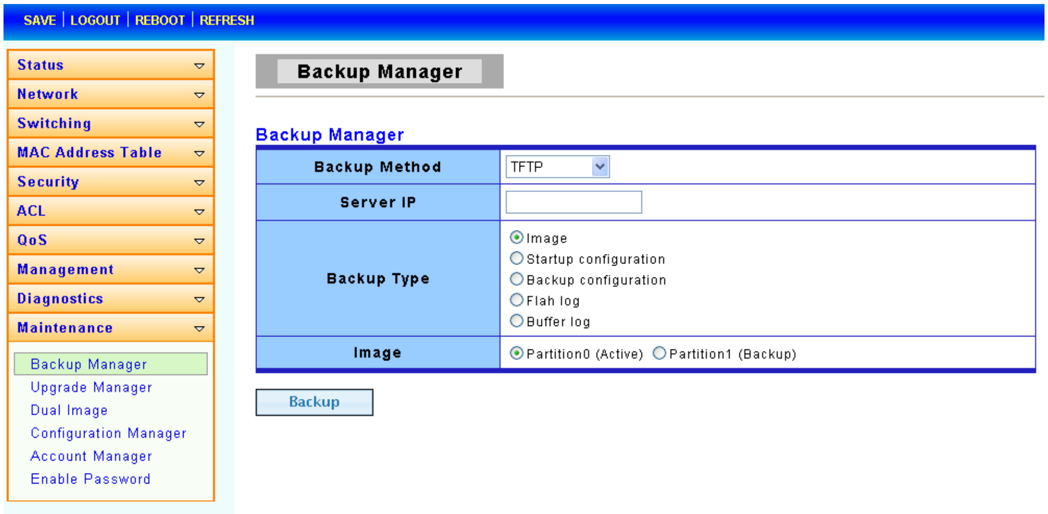
5.10 MAINTENANCE

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

Backup Manager

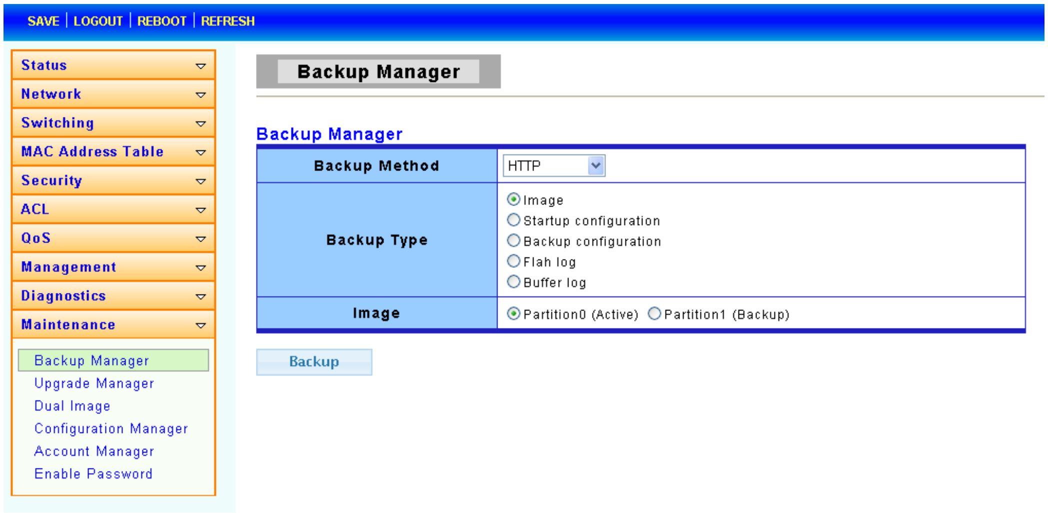
To display Backup Manager web page, click Maintenance > Backup Manager

This page allow user to backup the firmware image or configuration file on the switch to remote TFTP server or host file system through HTTP protocol.



Backup Manager

Backup Method	TFTP
Server IP	
Backup Type	● Image ○ Startup configuration ○ Backup configuration ○ Flah log ○ Buffer log
Image	● Partition0 (Active) ○ Partition1 (Backup)



Backup Manager

Backup Manager

Backup Method	HTTP
Backup Type	● Image ○ Startup configuration ○ Backup configuration ○ Flah log ○ Buffer log
Image	● Partition0 (Active) ○ Partition1 (Backup)

Backup Method: Select backup method

TFTP: Use TFTP to backup

HTTP: Use HTTP to backup

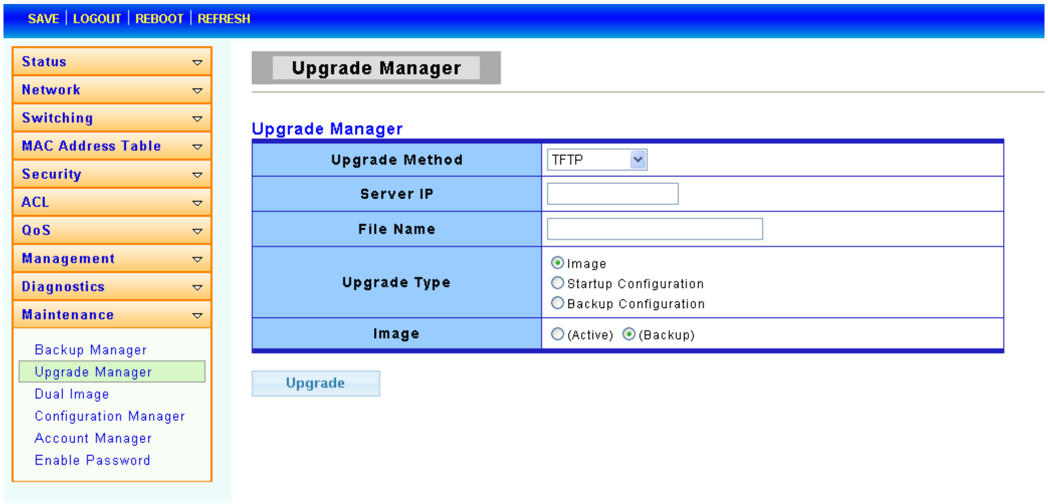
Server IP: IP address of the TFTP server. If the TFTP backup method is selected, the IP address of the TFTP server must be assigned.

Backup Type: Select Backup Type

Upgrade Manager

To display Upgrade Manager web page, click **Maintenance > Upgrade Manager**

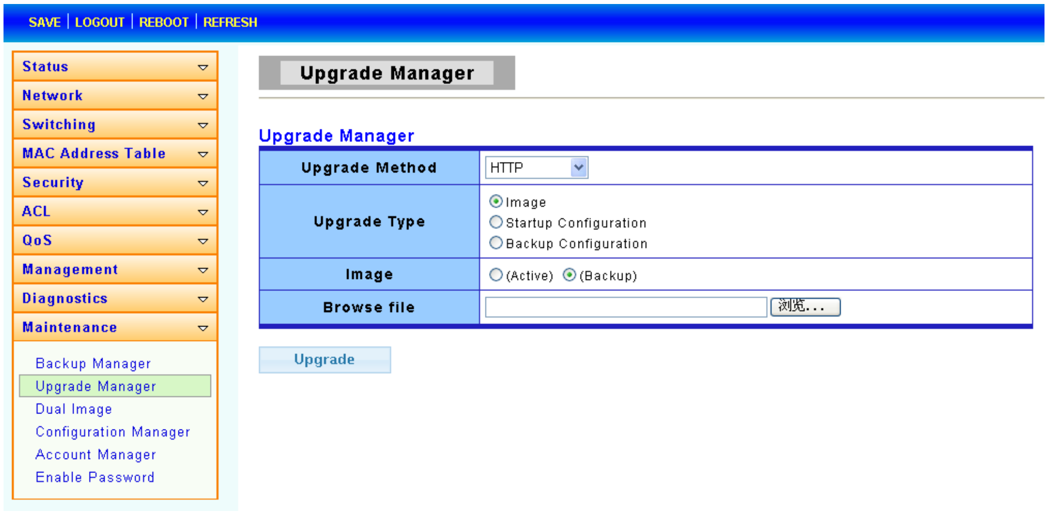
This page allow user to upgrade new firmware image or configuration file to the switch from remote TFTP server or select file from web browser.



Upgrade Manager

Upgrade Manager

Upgrade Method	TFTP
Server IP	
File Name	
Upgrade Type	● Image ○ Startup Configuration ○ Backup Configuration
Image	○ (Active) ● (Backup)



Upgrade Manager

Upgrade Method	HTTP
Upgrade Type	● Image ○ Startup Configuration ○ Backup Configuration
Image	○ (Active) ● (Backup)
Browse file	浏览...

Upgrade Method: Select upgrade method

TFTP: Use TFTP to upgrade

HTTP: Use HTTP to upgrade

Server IP: IP address of the TFTP server. If the TFTP upgrade method is selected, the IP address of the TFTP server must be assigned.

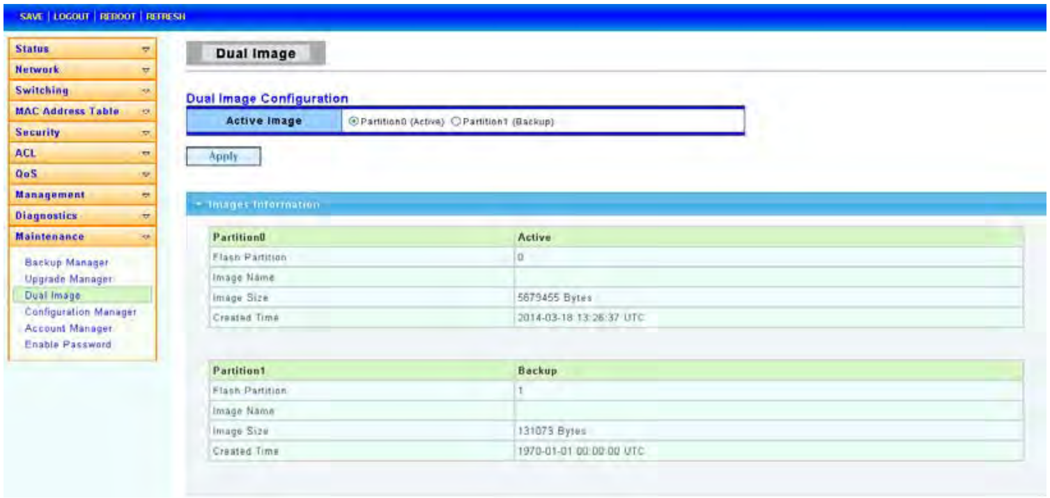
File Name: Firmware image or configuration file name on remote TFTP server. If the TFTP upgrade method is selected, the file name must be specified.

Browse file: If the HTTP upgrade method is selected, the browse file field allow you to select any file on host operating system.

Upgrade Type: Select Backup Type

Dual Image

To display Dual Image web page, click **Maintenance > Dual Image**



Dual Image

Dual Image Configuration

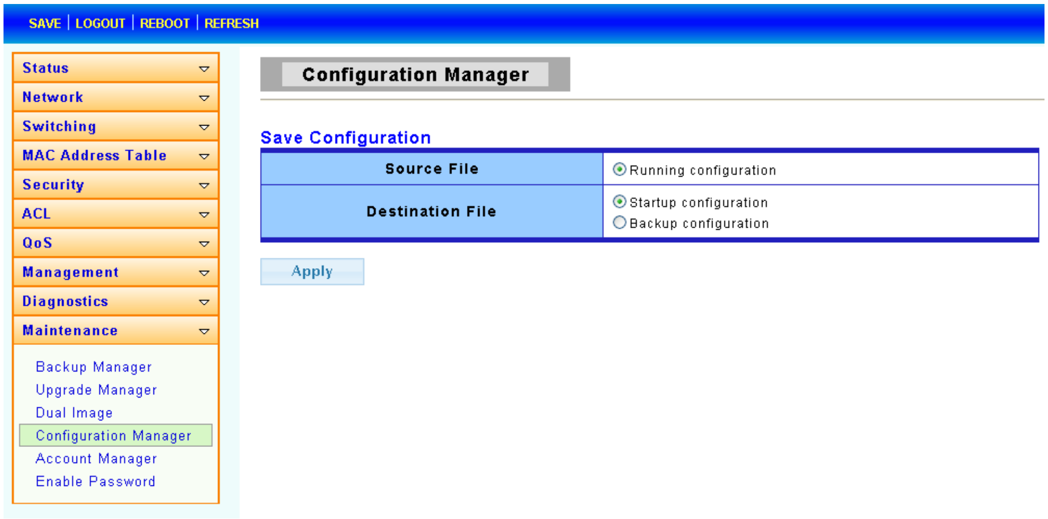
Active Image	● Partition0 (Active) ○ Partition1 (Backup)

Partition0	Active
Flash Partition	0
Image Name	
Image Size	5679455 Bytes
Created Time	2014-03-18 13:26:37 UTC

Partition1	Backup
Flash Partition	1
Image Name	
Image Size	131073 Bytes
Created Time	1970-01-01 00:00:00 UTC

Configuration Manager

To display Configuration Manager web page, click Maintenance > Configuration Manager



Configuration Manager

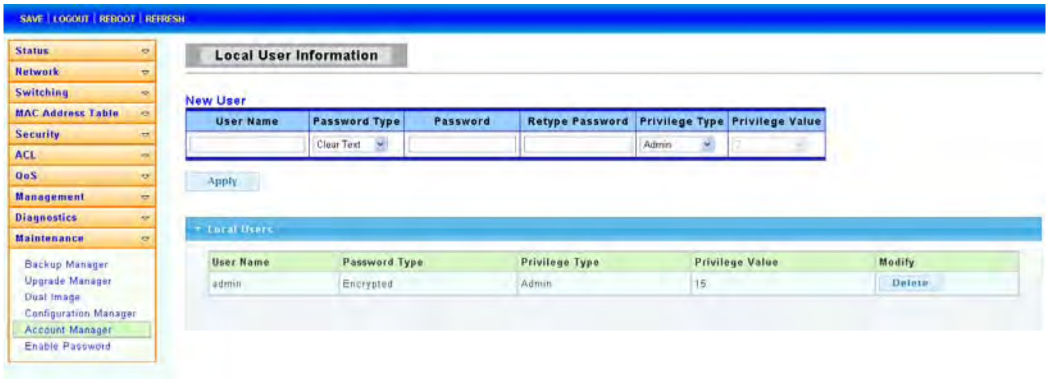
Save Configuration

Source File	● Running configuration
Destination File	● Startup configuration ○ Backup configuration

Account Manager

To display Account Manager web page, click Maintenance > Account Manager

This page allow user to add or delete switch local user database for authenticating.



Local User Information

New User

User Name	Password Type	Password	Retype Password	Privilege Type	Privilege Value
	Clear Text			Admin	

User Name	Password Type	Privilege Type	Privilege Value	Modify
admin	Encrypted	Admin	15	Delete

User Name: User name for new account.

Password Type: Select password type for new account.

Clear Text: Password without encryption

Encrypted: Password with encryption

No Password: No password for the new account.

Password: If the password type is not “No Password”, the password must be specified.

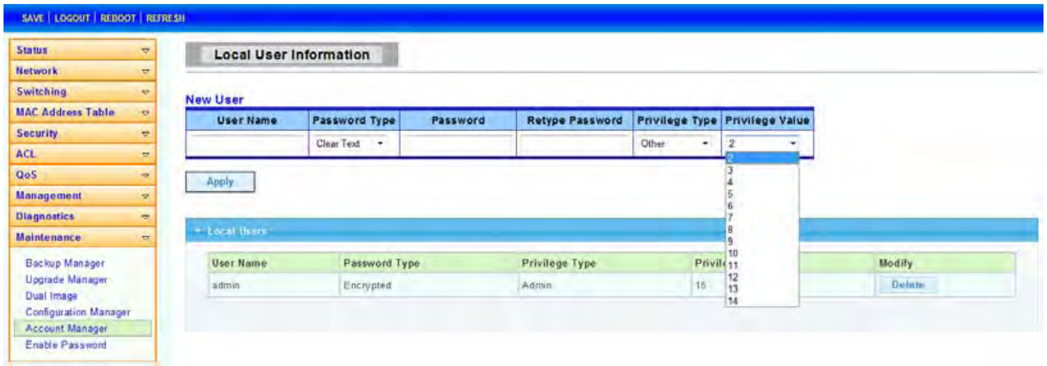
Retype Password: Retype password to make sure the password is exactly you typed before in “Password” field.

Privilege Type: Select privilege level for new account.

Admin: Allow to change switch settings.

User: See switch settings only. Not allow to change it.

If AAA feature is enabled, we have one more privilege type to allow user adding privilege value for this account.



Local User Information

New User

User Name	Password Type	Password	Retype Password	Privilege Type	Privilege Value
	Clear Text			Other	2

User Name	Password Type	Privilege Type	Privil	Modify
admin	Encrypted	Admin	15	Delete

User Name: User name for new account.

Password Type: Select password type for new account.

Clear Text: Password without encryption

Encrypted: Password with encryption

No Password: No password for the new account.

Password: If the password type is not “No Password”, the password must be specified.

Retype Password: Retype password to make sure the password is exactly you typed before in “Password” field.

Privilege Type: Select privilege level for new account.

Admin: Allow to change switch settings.

User: See switch settings only. Not allow to change it.

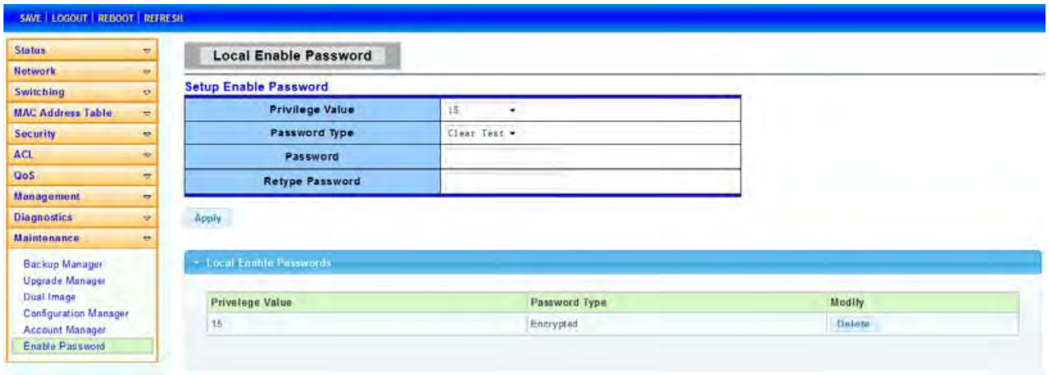
Other: Assign privilege level value in Privilege value field.

Privilege Value: If the account privilege type is “Other”, set the privilege level for this account here. The valid privilege level is from 2 to 14.

Enable Password

To display Enable Password web page, click **Maintenance > Enable Password**

This page allow user to modifythe enable password. In command line interface, user can use “enable”command to changetheir privilege level to “Admin”.After “enable” command is issued, user need to type the enable password to change their privilege level.



Local Enable Password

Setup Enable Password

Privilege Value	15
Password Type	Clear Text
Password	
Retype Password	

Privelege Value	Password Type	Modify
15	Encrypted	Delete

Password Type: Select password type for enable password.

Clear Text: Password without encryption

Encrypted: Password with encryption

Password: Password string.

Retype Password: Retype password to make sure the password is exactly you typed before in “Password” field.