

# Light network management 2.5G/10G series

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WEB Manual

Ver 1.01

# Declare

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# Foreword

This manual mainly describes the WEB of the light network management 2.5 G/10G series Ethernet switch. The user can manage the switch through the WEB page. This manual only gives a brief introduction to the operation of each WEB page. Please refer to the User Manual for the introduction of each function.

The preamble contains the following:

- Audience Object
- Product Introduction
- Product Features

## **Audience Object**

- Network Planner
- On-site technical support and maintenance personnel
- Network administrator responsible for network configuration and maintenance

## **Product Introduction**

The light network management 2.5 G/10g Ethernet switch is independently designed and developed by our company, which is specially designed for building a high-security and high-performance network. The system adopts a new software and hardware platform, which is an ideal convergence layer switch for office network, campus net

work, small and medium-sized enterprises and branch offices.

## Product Features

- PoE port switch support (standard PoE switch family only)
- Supports PoE protocol type configuration (standard PoE switch family only)
- PoE port restart support (standard PoE switch family only)
- Supports PoE DOG feature configuration (standard PoE switch family only)
- Support PoE port status, current, power, voltage display (standard PoE switch series only)
- Support system information display
- Support port exception protection display
- Support port broadband usage display
- Support link aggregation display
- Support static/dynamic MAC address table display
- Support Chinese-English/English language switching
- Support management IP address configuration
- Support system time configuration
- Support port status, rate and flow control configuration
- Supports port mirroring
- Support port exception protection (BPDU/self-loop, broadcast flooding, ACL, DHCP message speed limit, etc.)
- Support for link 8-group aggregation
- IEEE configuration is supported
- Supports jumbo frame configuration
- Supports port isolation configuration
- Supports 4094 VLAN address

- Supports 802.11Q VLAN, MTU VLAN, Port VLAN
- Support static MAC address table
- Supports dynamic MAC address table
- Support MAC address transition table
- Support STP/RSTP tree protocol
- Support TPV4 port limit
- Support TGMP Snooping V1/V2/V3
- Support for management VLAN
- Support management and maintenance mode selection
- Support for 8 port queues
- Supports port priority, CoS priority, 802.1P priority, DSCP priority
- Support port speed limit and exit queue speed limit
- Support log function configuration
- Support for remote log server configuration
- Support Ping function
- Support electric port test
- Support optical module information diagnosis
- Support user configuration
- Support Web/TFTP/CTP firmware upgrade
- Support profile import and export

## **[Version Update]**

### **Ver 1.0.1**

User experience optimization

Resolves known issues and provides faster response.

Perfect support for one-key conversion between Chinese and English.

Related functions are optimized to make management easier.

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# Chapter 1 Login Management Interface

## 1.1 Logon preparation

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1. The switch is normally powered on and started, and any interface is connected with a computer network port for login management;
2. At least IE 8.0 or above, the latest version of FireFox, Chrome and Safari browsers or one of the above core browser software should be installed on the management computer;
3. The IP address of the network card connecting the management computer and the switch should be in the same network segment as the management IP address of the switch. It should be 192.168. 0. \* (\* is any integer between 3 and 254) when it is set for the first time. The subnet mask is 255.255. 255.0.

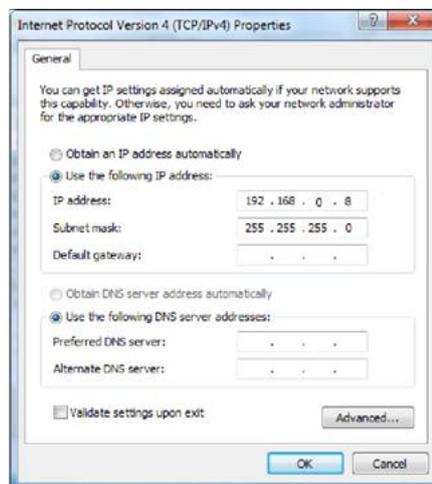


Figure 1.1



When logging in to the switch, confirm that the computer IP has been configured in one segment.

---

## 1.2 Login step

1. Open the browser and enter the management address of the switch in the address bar (the default address is the http://192.168.0.1) to log in to the management interface of the switch.

2. Select Chinese login/English login in the pop-up login window, and enter the switch management user name and password. The default user name and password are admin.

3. After a successful login, the switching system information page is displayed.



The image shows a login window with a blue border. It contains three input fields: 'Username:' with an empty text box, 'Password:' with an empty text box, and 'Language:' with a dropdown menu showing 'English'. Below these fields is a 'Login' button.

Figure 1. 2-1

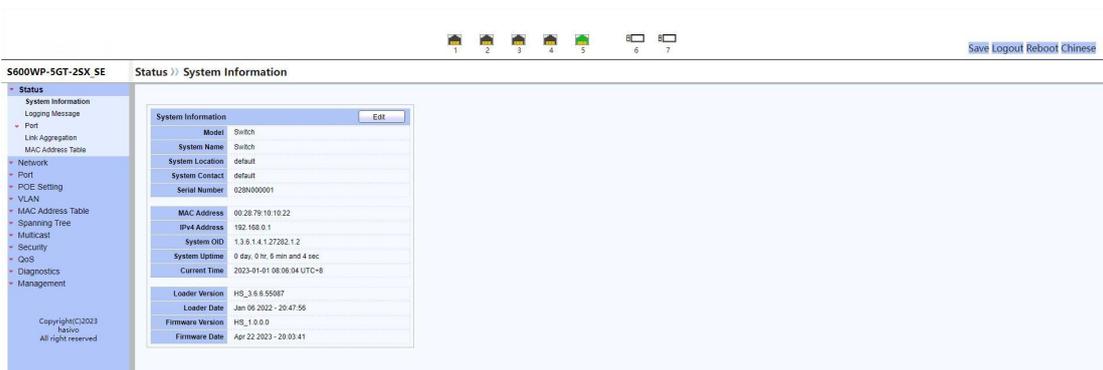


Figure 1. 2-2

# Chapter 2 WEB Management Function

## 2.1 Interface description

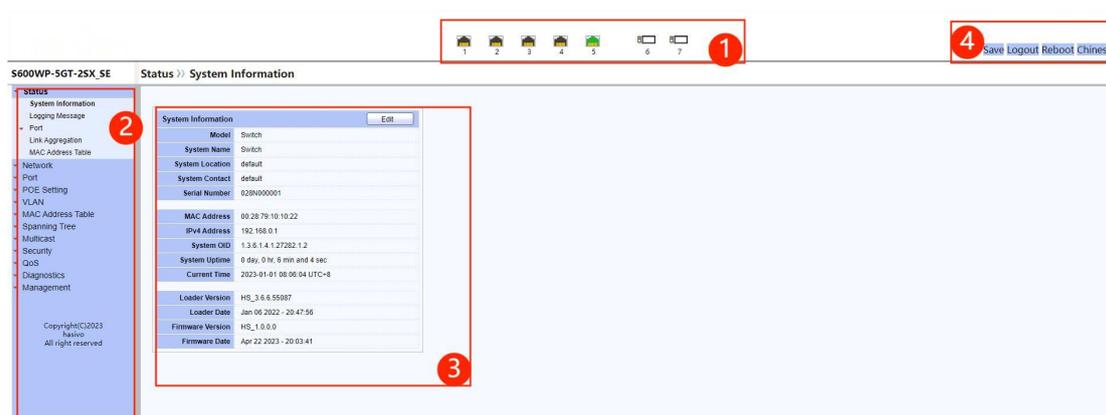


Figure 2.1

- ① Interface Status: Displays the working status of the port. Green indicates that the port is connected. Uncolored indicates that the port is not connected.
- ② Function navigation tree: You can quickly switch to the corresponding function page through function navigation.
- ③ Function details: information display and configuration details of the currently selected function.
- ④ Navigation switch: save, logout, restart, English
  - Save: Save the current configuration
  - Unregister: Unregister the current configuration
  - Restart: Restart the current switch
  - English: Switch to English interface

## 2.2 System Status

---

### 2.2.1 System Information

The system information page displays the basic information of the switch system, including equipment model, system name, location information, contact information, equipment serial number, MAC address, IP information, firmware and hardware version.

System Information		Edit
Model	Switch	
System Name	Switch	
System Location	default	
System Contact	default	
Serial Number	028N000001	
MAC Address	00:28:79:10:10:22	
IPv4 Address	192.168.0.1	
System OID	1.3.6.1.4.1.27282.1.2	
System Uptime	0 day, 0 hr, 6 min and 4 sec	
Current Time	2023-01-01 08:06:04 UTC+8	
Loader Version	HS_3.6.6.55087	
Loader Date	Jan 06 2022 - 20:47:56	
Firmware Version	HS_1.0.0.0	
Firmware Date	Apr 22 2023 - 20:03:41	

Figure 2.2.1

### 2.2.2 Modify system information

The system name, location information and contact information can be modified in the information modification interface.

**Edit System Information**

<b>System Name</b>	<input type="text" value="Switch"/>
<b>System Location</b>	<input type="text" value="default"/>
<b>System Contact</b>	<input type="text" value="default"/>

Figure 2. 2. 2

### 2. 2. 3 Log information

The log information page displays the login information of the switch, and the current login information table can be cleared/refreshed.

**Logging Message Table**

Viewing

Showing  entries Showing 1 to 7 of 7 entries

Log ID	Time	Severity	Description
1	Jan 01 2023 08:00:04	notice	PORT-0-LINK_UP: Interface MultiGigabitEthernet5 link up, aggregated (1)
2	Jan 01 2023 08:01:54	notice	AAA-5-CONNECT: New http connection for user admin, source 192.168.2.74 ACCEPTED
3	Jan 01 2023 08:00:57	notice	PORT-5-LINK_DOWN: Interface MultiGigabitEthernet5 link down
4	Jan 01 2023 08:00:17	notice	AAA-5-CONNECT: New http connection for user admin, source 192.168.2.54 ACCEPTED
5	Jan 01 2023 08:00:14	warning	AAA-5-USER_REJECT: New http connection for user admin', source 192.168.2.54 REJECTED
6	Jan 01 2023 08:00:04	notice	PORT-4-LINK_UP: Interface MultiGigabitEthernet5 link up
7	Jan 01 2023 00:00:03	notice	SYSTEM-5-COLDSTART: Cold startup

Figure 2. 2. 3

### 2. 2. 4 Port information

#### 2.2.4.1 Port Statistics

The port statistics page displays the switch port data information. You can select the corresponding port, corresponding to MIB Counter: All, Interface, Ether like, RMON, select the corresponding refresh speed: None, 5 seconds, 10 seconds, 30 seconds, and select to clear the current port data.

Port	MGE1 ▾
MIB Counter	<input checked="" type="radio"/> All <input type="radio"/> Interface <input type="radio"/> Etherlike <input type="radio"/> RMON
Refresh Rate	<input type="radio"/> None <input type="radio"/> 5 sec <input checked="" type="radio"/> 10 sec <input type="radio"/> 30 sec
Clear	

Interface	
ifInOctets	0
ifInUcastPkts	0
ifInNUcastPkts	0
ifInDiscards	0
ifOutOctets	0
ifOutUcastPkts	0
ifOutNUcastPkts	0
ifOutDiscards	0
ifInMulticastPkts	0
ifInBroadcastPkts	0
ifOutMulticastPkts	0
ifOutBroadcastPkts	0

Etherlike	
dot3StatsAlignmentErrors	0
dot3StatsFCSErrors	0
dot3StatsSingleCollisionFrames	0
dot3StatsMultipleCollisionFrames	0
dot3StatsDeferredTransmissions	0
dot3StatsLateCollisions	0
dot3StatsExcessiveCollisions	0
dot3StatsFrameTooLongs	0
dot3StatsSymbolErrors	0
dot3ControlInUnknownOpCodes	0
dot3InPauseFrames	0
dot3OutPauseFrames	0

RMON	
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

Figure 2.2.4.1

### 2.2.4.2 Port exception protection

The port exception protection page displays the switch Error Disabled interface

e information, and the corresponding port refresh/Recover can be selected.

**Error Disabled Table**

<input type="checkbox"/>	Port	Reason	Time Left (sec)
<input type="checkbox"/>	MGE1	---	---
<input type="checkbox"/>	MGE2	---	---
<input type="checkbox"/>	MGE3	---	---
<input type="checkbox"/>	MGE4	---	---
<input type="checkbox"/>	MGE5	---	---
<input type="checkbox"/>	TE1	---	---
<input type="checkbox"/>	TE2	---	---
<input type="checkbox"/>	LAG1	---	---
<input type="checkbox"/>	LAG2	---	---
<input type="checkbox"/>	LAG3	---	---
<input type="checkbox"/>	LAG4	---	---
<input type="checkbox"/>	LAG5	---	---
<input type="checkbox"/>	LAG6	---	---
<input type="checkbox"/>	LAG7	---	---
<input type="checkbox"/>	LAG8	---	---

Figure 2.2.4.2

### 2.2.4.3 Bandwidth Utilization

The bandwidth utilization page displays the bandwidth utilization of the switch, which can be displayed by refreshing for 5/10 seconds.

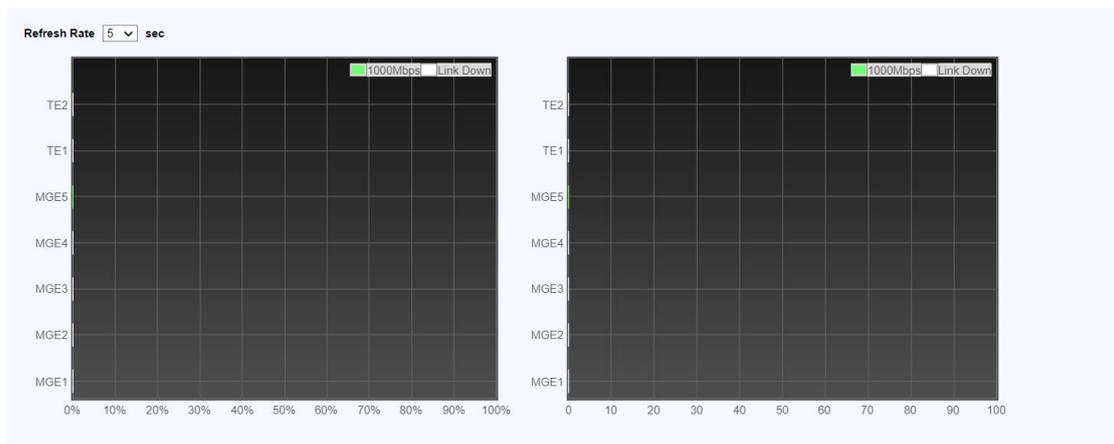


Figure 2.2.4.3

### 2.2.5 Link Aggregation

The Link Aggregation page displays switch link aggregation configuration infor

mation.

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

Figure 2.2.5

## 2.2.6 MAC address table

The MAC address table page displays the MAC address table information of the switch. You can select 10/30/50/100 to display the corresponding entries, and you can clear/refresh the current information.

VLAN	MAC Address	Type	Port
1	00:28:79:10:10:22	Management	CPU
1	00:28:24:12:2D:E3	Dynamic	MGE5
1	00:CF:E0:49:2F:28	Dynamic	MGE5
1	00:CF:E0:49:30:A7	Dynamic	MGE5
1	00:CF:E0:4A:44:42	Dynamic	MGE5
1	00:CF:E0:4C:3B:81	Dynamic	MGE5
1	00:CF:E0:4F:35:F8	Dynamic	MGE5
1	00:CF:E0:4F:3B:16	Dynamic	MGE5
1	00:CF:E0:50:8B:2B	Dynamic	MGE5
1	00:E0:4C:3D:F2:DC	Dynamic	MGE5
1	00:E0:70:72:1E:32	Dynamic	MGE5
1	00:E0:70:96:72:4D	Dynamic	MGE5

Figure 2.2.6

## 2.3 Network configuration

---

### 2.3.1 IP Address Settings

IPv4 Address	
Address Type	<input checked="" type="radio"/> Static <input type="radio"/> Dynamic
IP Address	192.168.2.220
Subnet Mask	255.255.255.0
Default Gateway	192.168.2.254

Sub IPv4 Address	
Enabled	<input type="checkbox"/> Enable
IP Address	0.0.0.0
Subnet Mask	0.0.0.0

Operational Status	
IPv4 Address	192.168.2.220
IPv4 Default Gateway	192.168.2.254
Sub IPv4 Address	0.0.0.0

Apply

Figure 2.3.1

**Static:** Used to set fixed IP address, subnet mask, and default gateway.

**Dynamic:** Used to set the automatic acquisition of IP address, subnet mask, and default gateway.

**Sub-IPV4 address:** used to turn on/off IPv4 address and subnet mask.

**Operation status:** display the current IP address and operation status.

### 2.3.2 System Time

The system time interface displays the system time configuration interface.

<b>Source</b>	<input type="radio"/> SNTP <input type="radio"/> From Computer <input checked="" type="radio"/> Manual Time		
<b>Time Zone</b>	UTC +8:00 ▾		
<b>SNTP</b>			
<b>Address Type</b>	<input checked="" type="radio"/> Hostname <input type="radio"/> IPv4		
<b>Server Address</b>	<input type="text"/>		
<b>Server Port</b>	<input type="text" value="123"/>	(1 - 65535, default 123)	
<b>Manual Time</b>			
<b>Date</b>	<input type="text" value="2023-01-01"/>	YYYY-MM-DD	
<b>Time</b>	<input type="text" value="08:22:10"/>	HH:MM:SS	
<b>Daylight Saving Time</b>			
<b>Type</b>	<input checked="" type="radio"/> None <input type="radio"/> Recurring <input type="radio"/> Non-recurring <input type="radio"/> USA <input type="radio"/> European		
<b>Offset</b>	<input type="text" value="60"/>	Min (1 - 1440, default 60)	
<b>Recurring</b>	From: Day <input type="text" value="Sun"/> ▾ Week <input type="text" value="First"/> ▾ Month <input type="text" value="Jan"/> ▾ Time <input type="text"/>		
	To: Day <input type="text" value="Sun"/> ▾ Week <input type="text" value="First"/> ▾ Month <input type="text" value="Jan"/> ▾ Time <input type="text"/>		
<b>Non-recurring</b>	From: <input type="text"/> YYYY-MM-DD <input type="text"/> HH:MM		
	To: <input type="text"/> YYYY-MM-DD <input type="text"/> HH:MM		
<b>Operational Status</b>			
<b>Current Time</b>	2023-01-01 08:22:10 UTC+8		
<input type="button" value="Apply"/>			

Figure 2.3.2

**SNTP:** configured by server address.

**Obtain from the computer:** Configure through the address of the local computer.

**Manual configuration:** configure by manually configuring the switch time.

## 2.4 Port

### 2.4.1 Port configuration

The interface of port configuration table displays the port list. Enter the corresponding port to configure the port.

**Port Setting Table**

Q

<input type="checkbox"/>	Entry	Port	Type	Description	State	Link Status	Speed	Duplex	Flow Control
<input type="checkbox"/>	1	MGE1	2.5G Copper		Enabled	Down	Auto	Auto	Disabled
<input type="checkbox"/>	2	MGE2	2.5G Copper		Enabled	Down	Auto	Auto	Disabled
<input type="checkbox"/>	3	MGE3	2.5G Copper		Enabled	Down	Auto	Auto	Disabled
<input type="checkbox"/>	4	MGE4	2.5G Copper		Enabled	Down	Auto	Auto	Disabled
<input type="checkbox"/>	5	MGE5	2.5G Copper		Enabled	Up	Auto (1000M)	Auto (Full)	Disabled (Off)
<input type="checkbox"/>	6	TE1	10G Fiber		Enabled	Down	Auto	Auto	Disabled
<input type="checkbox"/>	7	TE2	10G Fiber		Enabled	Down	Auto	Auto	Disabled

Figure 2.4.1-1

**Edit Port Setting**

**Port** MGE1

**Description**

**State**  Enable

**Speed**

- Auto
- Auto - 10M
- Auto - 100M
- Auto - 1000M
- Auto - 10M/100M
- 10M
- 100M
- 1000M
- 2.5G
- 5G
- 10G

**Duplex**

- Auto
- Full
- Half

**Flow Control**

- Auto
- Enable
- Disable

Figure 2.4.1-2

## 2.4.2 Mirror function

The mirror table interface displays the mirror configuration, which can be configured after entering.

Mirroring Table

Session ID	State	Monitor Port	Ingress Port	Egress Port
<input type="radio"/>	1 Disabled	---	---	---
<input type="radio"/>	2 Disabled	---	---	---
<input type="radio"/>	3 Disabled	---	---	---
<input type="radio"/>	4 Disabled	---	---	---

Edit

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

Figure 2.4.2-1

Edit Mirroring

<b>Session ID</b>	1
<b>State</b>	<input type="checkbox"/> Enable
<b>Monitor Port</b>	MGE1
	<input type="checkbox"/> Send or Receive Normal Packet
<b>Ingress Port</b>	Available Port
	Selected Port
<b>Egress Port</b>	Available Port
	Selected Port

Apply Close

Figure 2.4.2-2

## 2. 4. 3 Port exception protection

The port exception protection interface can be configured by selecting the corresponding option.



<b>Recovery Interval</b>	<input type="text" value="300"/>	Sec (30 - 86400)
<b>BPDU Guard</b>	<input type="checkbox"/>	Enable
<b>Self Loop</b>	<input type="checkbox"/>	Enable
<b>Broadcast Flood</b>	<input type="checkbox"/>	Enable
<b>Unknown Multicast Flood</b>	<input type="checkbox"/>	Enable
<b>Unicast Flood</b>	<input type="checkbox"/>	Enable
<b>ACL</b>	<input type="checkbox"/>	Enable
<b>Port Security</b>	<input type="checkbox"/>	Enable
<b>DHCP Rate Limit</b>	<input type="checkbox"/>	Enable
<b>ARP Rate Limit</b>	<input type="checkbox"/>	Enable

Figure 2. 4. 3

## 2. 4. 4 Link Aggregation

### 2.4.4.1 Link Aggregation Configuration

The link aggregation configuration interface is used to configure the link aggregation according to the environment requirements.



Figure 2. 4. 4. 1-1

Load sharing policy: MAC address-based/IP-MAC address-based

LAG group, LAG group ID value4 range is 1-8,8LAAGgroups can be configured at most

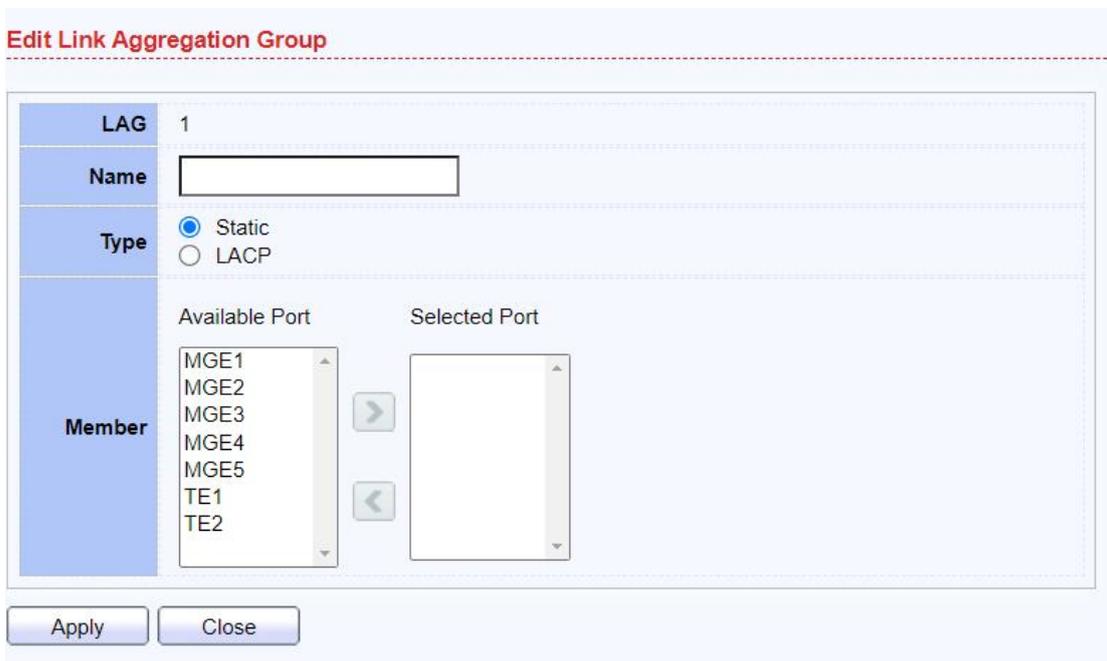


Figure 2. 4. 4. 1-2

**Name:** Select to name the configuration LAG group

**Type Static:** Static Link Aggregation

**Type LACP:** Dynamic Link Aggregation

**Member:** Select the port that requires the link

## 2.4.4.2 LACP Configuration

The LACP configuration interface displays the LACP interface settings, and the LACP settings can be configured.



The screenshot shows the LACP configuration interface. At the top, there is a 'System Priority' field with the value '32768' and a range '(1 - 65535, default 32768)'. Below it is an 'Apply' button. The main section is titled 'LACP Port Setting Table' and contains a table with the following data:

<input type="checkbox"/>	Entry	Port	Port Priority	Timeout
<input type="checkbox"/>	1	MGE1	1	Long
<input type="checkbox"/>	2	MGE2	1	Long
<input type="checkbox"/>	3	MGE3	1	Long
<input type="checkbox"/>	4	MGE4	1	Long
<input type="checkbox"/>	5	MGE5	1	Long
<input type="checkbox"/>	6	TE1	1	Long
<input type="checkbox"/>	7	TE2	1	Long

Below the table is an 'Edit' button. A search icon and a search input field are located to the right of the table.

Figure 2. 4. 4. 2-1

**System priority:** select the corresponding LACP port priority 32678 (1-65535) by default

**LACP Port Setting Table:** select the corresponding port for configuration.



The screenshot shows the 'Edit LACP Port Setting' dialog box. It contains the following fields:

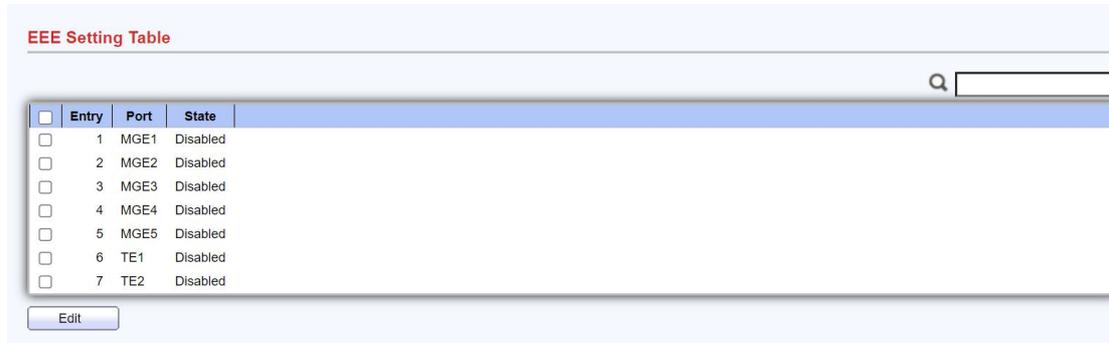
- Port:** MGE1
- Port Priority:** 1 (1 - 65535, default 1)
- Timeout:** Long (selected with a radio button), Short (unselected)

At the bottom of the dialog are 'Apply' and 'Close' buttons.

Figure 2. 4. 4. 2-2

## 2. 4. 5 EEE configuration

The EEE configuration interface can configure the port EEE configuration (disabled by default).

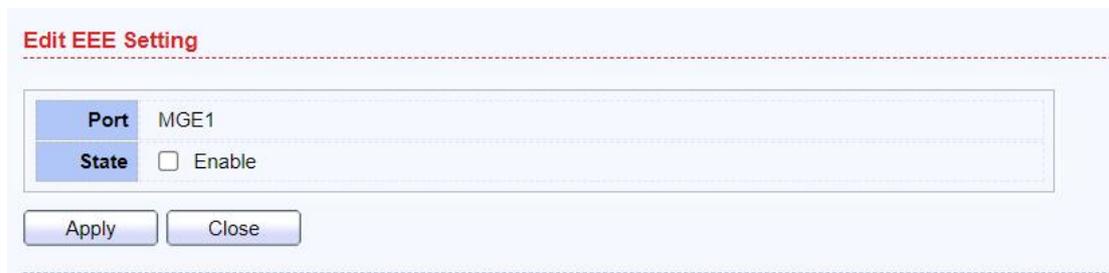


The screenshot shows the 'EEE Setting Table' interface. It features a search bar at the top right and a table with the following data:

Entry	Port	State
<input type="checkbox"/>	1 MGE1	Disabled
<input type="checkbox"/>	2 MGE2	Disabled
<input type="checkbox"/>	3 MGE3	Disabled
<input type="checkbox"/>	4 MGE4	Disabled
<input type="checkbox"/>	5 MGE5	Disabled
<input type="checkbox"/>	6 TE1	Disabled
<input type="checkbox"/>	7 TE2	Disabled

Below the table is an 'Edit' button.

Figure 2. 4. 5-1



The screenshot shows the 'Edit EEE Setting' interface. It contains a form with the following fields:

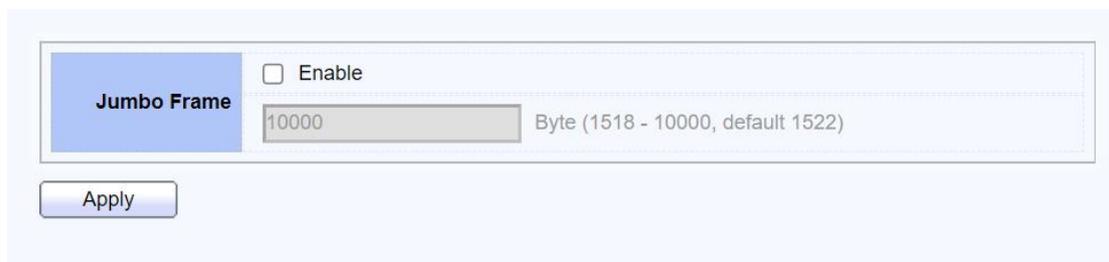
- Port:** MGE1
- State:**  Enable

At the bottom of the form are two buttons: 'Apply' and 'Close'.

Figure 2. 4. 5-2

## 2. 4. 6 Jumbo Frame Configuration

The jumbo frame configuration interface allows you to configure the frame.



The screenshot shows the 'Jumbo Frame Configuration' interface. It contains a form with the following fields:

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

At the bottom of the form is an 'Apply' button.

Figure 2. 4. 6-1

**Jumbo frame:** set range 1518-10000, default 1522

## 2. 4. 7 Port Isolation

The port isolation configuration interface can be used to set the port isolation.



<input type="checkbox"/>	Entry	Port	State
<input type="checkbox"/>	1	MGE1	Unprotected
<input type="checkbox"/>	2	MGE2	Unprotected
<input type="checkbox"/>	3	MGE3	Unprotected
<input type="checkbox"/>	4	MGE4	Unprotected
<input type="checkbox"/>	5	MGE5	Unprotected
<input type="checkbox"/>	6	TE1	Unprotected
<input type="checkbox"/>	7	TE2	Unprotected
<input type="checkbox"/>	8	LAG1	Unprotected
<input type="checkbox"/>	9	LAG2	Unprotected
<input type="checkbox"/>	10	LAG3	Unprotected
<input type="checkbox"/>	11	LAG4	Unprotected
<input type="checkbox"/>	12	LAG5	Unprotected
<input type="checkbox"/>	13	LAG6	Unprotected
<input type="checkbox"/>	14	LAG7	Unprotected
<input type="checkbox"/>	15	LAG8	Unprotected

Figure 2. 4. 7-1

**Isolation port table:** select the corresponding interface for configuration.



<b>Port</b>	MGE1
<b>State</b>	<input type="checkbox"/> Protected

Apply Close

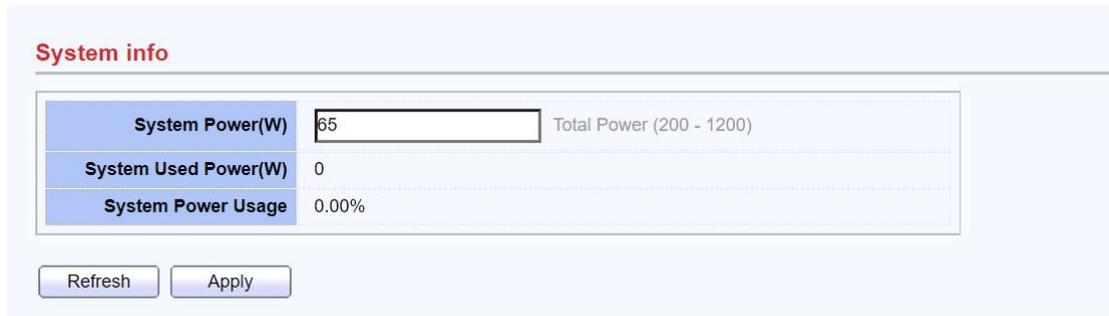
Figure 2. 4. 7-2

**Status:**The default is nobn-isolated status.Select the corresponding port to open it.

## 2.5 POE Settings

### 2.5.1 POE Port Settings

The device information can configure the power of the switch device (according to the actual use).

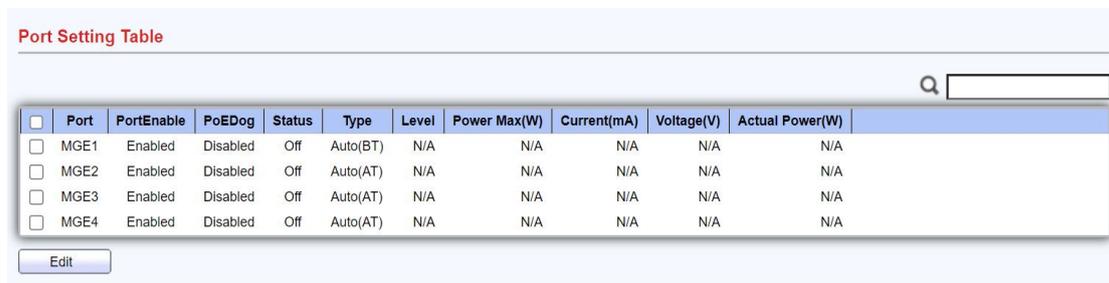


**System info**

System Power(W)	<input type="text" value="65"/>	Total Power (200 - 1200)
System Used Power(W)	0	
System Power Usage	0.00%	

Figure 2.5.1-1

Interface of port configuration table POE port can be set in this interface.



**Port Setting Table**

Q

<input type="checkbox"/>	Port	PortEnable	PoEDog	Status	Type	Level	Power Max(W)	Current(mA)	Voltage(V)	Actual Power(W)
<input type="checkbox"/>	MGE1	Enabled	Disabled	Off	Auto(BT)	N/A	N/A	N/A	N/A	N/A
<input type="checkbox"/>	MGE2	Enabled	Disabled	Off	Auto(AT)	N/A	N/A	N/A	N/A	N/A
<input type="checkbox"/>	MGE3	Enabled	Disabled	Off	Auto(AT)	N/A	N/A	N/A	N/A	N/A
<input type="checkbox"/>	MGE4	Enabled	Disabled	Off	Auto(AT)	N/A	N/A	N/A	N/A	N/A

Figure 2.5.1-2



**Edit Poe Setting**

Port	MGE1
PortEnable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
PoEDog	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Type	<input checked="" type="radio"/> BT <input type="radio"/> HiPoe <input type="radio"/> At <input type="radio"/> Af

Figure 2.5.1-3

## 2.6 VLAN function

---

### 2.6.1 VLAN configuration

#### 2.6.1.1 Create VLAN

Create VLAN interface Select Create VLAN for configuration

The screenshot displays a web-based configuration interface for VLANs. It features two columns: 'Available VLAN' and 'Created VLAN'. The 'Available VLAN' column lists VLANs 2 through 9, while the 'Created VLAN' column shows VLAN 1. Below these columns is an 'Apply' button. Underneath, there is a 'VLAN Table' section with a search bar and a table containing one entry: VLAN 1, default type, Default, and Enabled interface state. Navigation buttons for 'First', 'Previous', '1', 'Next', and 'Last' are located at the bottom right of the table, along with 'Edit' and 'Delete' buttons.

VLAN	Name	Type	VLAN Interface State
1	default	Default	Enabled

Figure 2.6.1.1-1

**VLAN:** Select the corresponding VLAN and apply (add up to 256 VLANs)

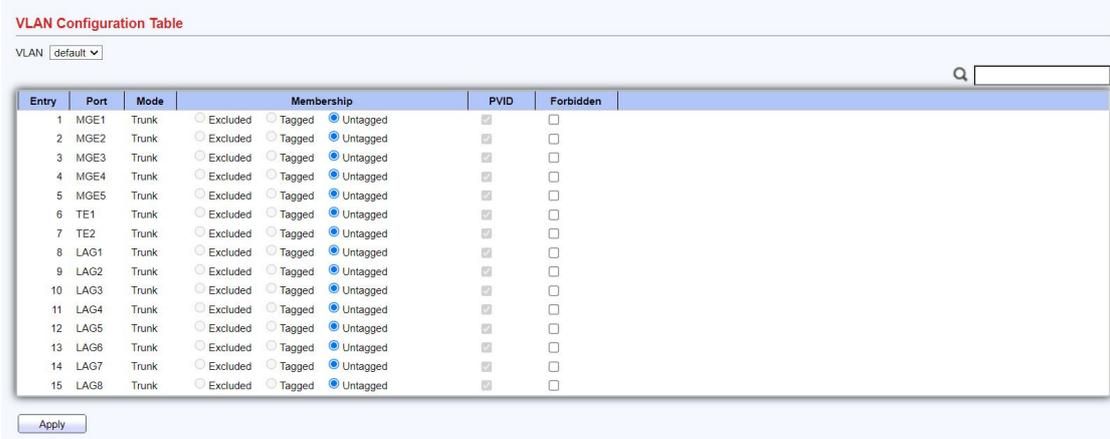
The screenshot shows a dialog box titled 'Edit VLAN Name'. It contains a text input field with the value 'VLAN0002'. Below the input field are two buttons: 'Apply' and 'Close'.

Figure 2.6.1.1-2

**Name:** Select the corresponding VLAN to modify the name. (Default is VLAN000X)

## 2.6.1.2 Set up VLAN

The VLAN interface can be used to configure the VLAN port.



The screenshot shows a web-based configuration interface for VLANs. At the top, there is a title "VLAN Configuration Table" and a dropdown menu set to "VLAN default". A search bar is located on the right. Below is a table with columns: Entry, Port, Mode, Membership, PVID, and Forbidden. The table lists 15 entries, each with a port name (MGE1-MGE5, TE1-TE2, LAG1-LAG8) and a mode (Trunk). For each entry, there are three radio buttons for membership: Excluded, Tagged, and Untagged. The "Untagged" option is selected for all entries. The "PVID" column has a checked checkbox for all entries, and the "Forbidden" column has an unchecked checkbox for all entries. An "Apply" button is at the bottom left.

Entry	Port	Mode	Membership			PVID	Forbidden
1	MGE1	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	MGE2	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	MGE3	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	MGE4	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	MGE5	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	TE1	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	TE2	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	LAG1	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	LAG2	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	LAG3	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	LAG4	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	LAG5	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13	LAG6	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
14	LAG7	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>
15	LAG8	Trunk	<input type="radio"/> Excluded	<input type="radio"/> Tagged	<input checked="" type="radio"/> Untagged	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Figure 2. 6. 1. 2-1

**VLAN ID:** Identifier used to distinguish different VLANs. Terminals between different VLANs cannot communicate directly.

**Untagged:** The port identified as untagged. When the data frame goes out of the port, if it is a frame with a VLAN tag, the tag will be removed and then sent out. If it is a data frame without a tag, it will be sent out directly. Data frames entering the port are internally tagged with the VLAN ID of the port. Commonly use for access terminal equipment.

**Tagged:** The port identified as tagged carries the VLAN ID tag when the data frame is sent to the port. Therefore, the peer device must be able to identify the VLAN tag, otherwise it cannot identify the data normally. Typically used to connect to the TRUNK, HYBRID, or VLAN-capable router ports of a managed switch.

**Excluded:** When the port is checked, it means that the current port is not a member port of this VLAN.

### 2.6.1.3 Member Configuration

The member list interface is used to configure the member list port.

Entry	Port	Mode	Administrative VLAN	Operational VLAN
<input type="radio"/>	1	MGE1	Trunk	1UP
<input type="radio"/>	2	MGE2	Trunk	1UP
<input type="radio"/>	3	MGE3	Trunk	1UP
<input type="radio"/>	4	MGE4	Trunk	1UP
<input type="radio"/>	5	MGE5	Trunk	1UP
<input type="radio"/>	6	TE1	Trunk	1UP
<input type="radio"/>	7	TE2	Trunk	1UP
<input type="radio"/>	8	LAG1	Trunk	1UP
<input type="radio"/>	9	LAG2	Trunk	1UP
<input type="radio"/>	10	LAG3	Trunk	1UP
<input type="radio"/>	11	LAG4	Trunk	1UP
<input type="radio"/>	12	LAG5	Trunk	1UP
<input type="radio"/>	13	LAG6	Trunk	1UP
<input type="radio"/>	14	LAG7	Trunk	1UP
<input type="radio"/>	15	LAG8	Trunk	1UP

Figure 2. 6. 1. 3-1

**Edit Port Setting**

**Port** MGE1

**Mode** Trunk

**Membership**

Forbidden

Excluded

Tagged

Untagged

PVID

Apply Close

Figure 2. 6. 1. 3-2

### 2.6.1.4 Port configuration

The interface of port configuration table can be used to configure the port.

Port Setting Table

Q

<input type="checkbox"/>	Entry	Port	Mode	PVID	Accept Frame Type	Ingress Filtering	Uplink	TPID
<input type="checkbox"/>	1	MGE1	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	2	MGE2	Trunk	1	All	Enabled	Disabled	0x8100
<input checked="" type="checkbox"/>	3	MGE3	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	4	MGE4	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	5	MGE5	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	6	TE1	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	7	TE2	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	8	LAG1	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	9	LAG2	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	10	LAG3	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	11	LAG4	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	12	LAG5	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	13	LAG6	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	14	LAG7	Trunk	1	All	Enabled	Disabled	0x8100
<input type="checkbox"/>	15	LAG8	Trunk	1	All	Enabled	Disabled	0x8100

Figure 2.6.1.4-1

Edit Port Setting

---

<b>Port</b>	MGE1
<b>Mode</b>	<input type="radio"/> Hybrid <input type="radio"/> Access <input checked="" type="radio"/> Trunk <input type="radio"/> Tunnel
<b>PVID</b>	<input type="text" value="1"/> (1 - 4094)
<b>Accept Frame Type</b>	<input checked="" type="radio"/> All <input type="radio"/> Tag Only <input type="radio"/> Untag Only
<b>Ingress Filtering</b>	<input checked="" type="checkbox"/> Enable
<b>Uplink</b>	<input type="checkbox"/> Enable
<b>TPID</b>	<input type="text" value="0x8100"/>

Figure 2.6.1.4-2

**PVID:** All ports have one and only one PVID. When an untagged data frame enters a switch port, the switch internally tags the data frame from that port with the PVID. The default PVID for all ports is 1.

## 2.7 MAC address table

### 2.7.1 Dynamic MAC address table

The dynamic MAC address table interface displays the dynamic MAC address of the switch

**Aging time:** 10-630, default 300.

**Add static MAC address:** In the dynamic MAC address table, you can directly select the corresponding MAC address and add it as a static MAC address.

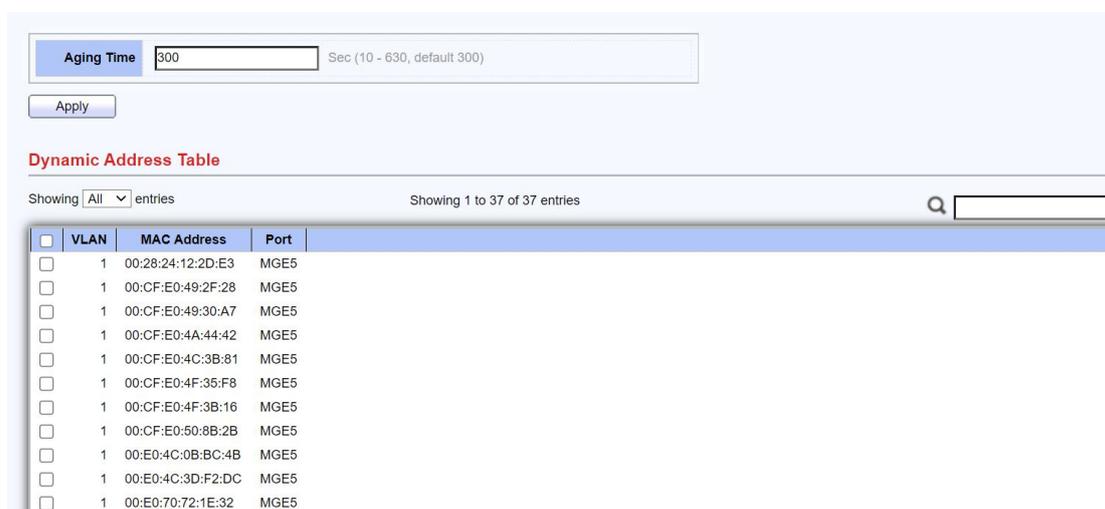


Figure 2.7.1-1

### 2.7.2 Static MAC address table

Static MAC Address Table Interface Static MAC address configuration can be performed on this interface.

**Add static address:** manually input the corresponding MAC address and add it under the corresponding port of the corresponding VLAN.

**MAC Address:** Controlled MAC address object.

**VLAN ID :** 作用的 VLAN ID ( 1-4094 之间的整数 ) 。

**VLAN ID:** The VLAN ID of the role (integer between 1-4094).

**Port:** The port control mode is used to bind the corresponding port after adding the static MAC address.



Figure 2. 6. 2-1

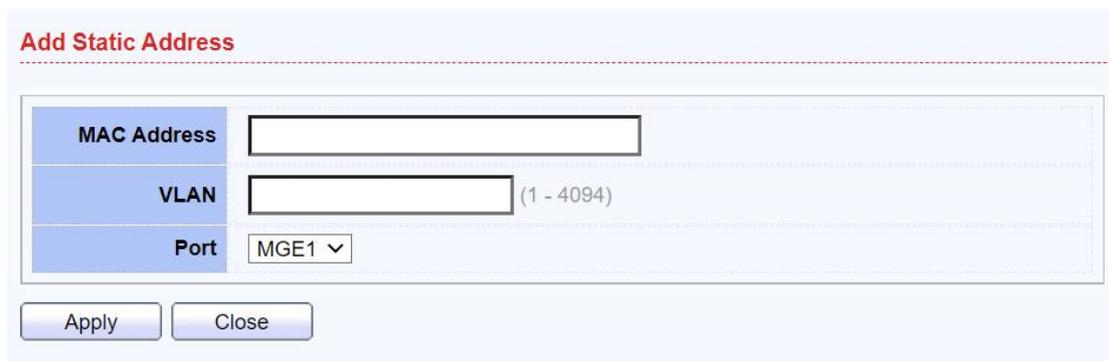


Figure 2. 7. 2-2

### 2. 7. 3 MAC address filter table

The MAC address filtering table interface is used to configure the MAC address filtering.

**Add filter address:** Add the MAC address to be filtered and select the corresponding VLAN.

**MAC Address:** Controlled MAC address object.

**VLAN ID:** The VLAN ID of the role (integer between 1-4094).

In a controlled manner, the added MAC address and the corresponding VLAN are blocked accordingly.

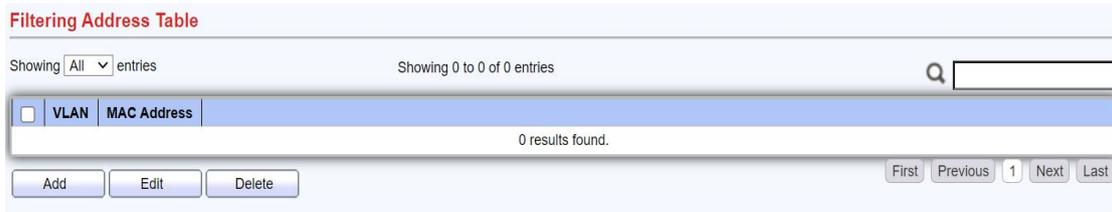


Figure 2. 7. 3-1

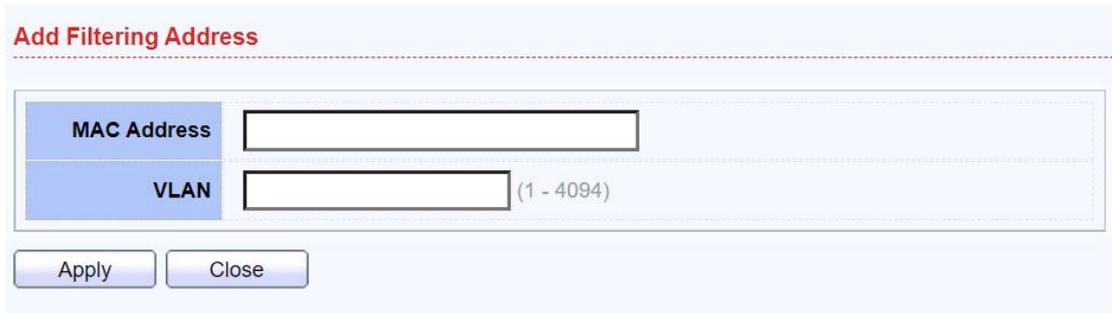


Figure 2. 7. 3-2

## 2. 8 Spanning Tree Protocol

---

### 2. 8. 1 Function Settings

Spanning tree function setting interface: configure the spanning tree in this interface.

**Status:** On (Spanning Tree Protocol is on, default is off)

**Operation mode:** Select the corresponding operation mode STP, RSTP, MSTP.

STP (Spanning Tree Protocol) is the abbreviation of Spanning Tree Protocol, which can be applied to the establishment of tree topology in computer networks. Its main function is to prevent redundant links in bridge networks from forming loops. RSTP (rapid spanning Tree Protocol), namely Rapid Spanning Tree Protocol, was first proposed in IEEE 802.1 W-2001. This protocol can converge the network faster when the network structure changes. Multiple Spanning Tree Protocol (MSTP)(Multiple Spanning Tree Protocol) is a new spanning

tree protocol defined in IEEE 802.1s. The protocol mainly solves the problems of traditional STP and rstp that all VLANS in the same local area network share a spanning tree, which can not realize the load balancing of data traffic among VLANS and produce sub-optimal paths.

**Path cost mode:** The introduction of two qualifiers, short and long, can provide us with integer numbers of different lengths that meet our actual needs. The short type is typically 16 bits and the long type is typically 32 bits.

**BPDU forwarding mode: drop/flood**

**Drop:** The switch drops incoming frames directly from a port.

**Flooding:** a switch forwards frames coming in from one port through all other ports except itself.

<b>State</b>	<input type="checkbox"/> Enable	
<b>Operation Mode</b>	<input type="radio"/> STP <input checked="" type="radio"/> RSTP <input type="radio"/> MSTP	
<b>Path Cost</b>	<input checked="" type="radio"/> Long <input type="radio"/> Short	
<b>BPDU Handling</b>	<input type="radio"/> Filtering <input checked="" type="radio"/> Flooding	
<b>Priority</b>	<input type="text" value="32768"/>	(0 - 61440, default 32768)
<b>Hello Time</b>	<input type="text" value="2"/>	Sec (1 - 10, default 2)
<b>Max Age</b>	<input type="text" value="20"/>	Sec (6 - 40, default 20)
<b>Forward Delay</b>	<input type="text" value="15"/>	Sec (4 - 30, default 15)
<b>Tx Hold Count</b>	<input type="text" value="6"/>	(1 - 10, default 6)
<b>Region Name</b>	<input type="text" value="00:28:79:10:10:22"/>	
<b>Revision</b>	<input type="text" value="0"/>	(0 - 65535, default 0)
<b>Max Hop</b>	<input type="text" value="20"/>	(1 - 40, default 20)
<b>Operational Status</b>		
<b>Bridge Identifier</b>	32768-00:28:79:10:10:22	
<b>Designated Root Bridge</b>	0-00:00:00:00:00:00	
<b>Root Port</b>	N/A	
<b>Root Path Cost</b>	0	
<b>Topology Change Count</b>	0	
<b>Last Topology Change</b>	0D/0H/0M/0S	
<input type="button" value="Apply"/>		

Figure 2. 8. 1-1

## 2.8.2 Port Settings

Spanning Tree Protocol Port Configuration Table The port protocol can be modified and reset in this interface.

**Port Setting Table**

<input type="checkbox"/>	Entry	Port	State	Path Cost	Priority	BPDU Filter	BPDU Guard	Operational Edge	Operational Point-to-Point	Port Role	Port State	Designated Bridge	Designated Port ID	Designated Cost
<input type="checkbox"/>	1	MGE1	Disabled	0	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-1	0
<input type="checkbox"/>	2	MGE2	Disabled	0	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-2	0
<input type="checkbox"/>	3	MGE3	Disabled	0	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-3	0
<input type="checkbox"/>	4	MGE4	Disabled	0	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-4	0
<input type="checkbox"/>	5	MGE5	Disabled	20000	128	Disabled	Disabled	Disabled	Enabled	Disabled	Forwarding	0-00:00:00:00:00:00	128-5	20000
<input type="checkbox"/>	6	TE1	Disabled	2000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-6	2000
<input type="checkbox"/>	7	TE2	Disabled	2000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-7	2000
<input type="checkbox"/>	8	LAG1	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-8	20000
<input type="checkbox"/>	9	LAG2	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-9	20000
<input type="checkbox"/>	10	LAG3	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-10	20000
<input type="checkbox"/>	11	LAG4	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-11	20000
<input type="checkbox"/>	12	LAG5	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-12	20000
<input type="checkbox"/>	13	LAG6	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-13	20000
<input type="checkbox"/>	14	LAG7	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-14	20000
<input type="checkbox"/>	15	LAG8	Disabled	20000	128	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	0-00:00:00:00:00:00	128-15	20000

Figure 2.8.2-1

**Edit Port Setting**

---

<b>Port</b>	MGE1
<b>State</b>	<input type="checkbox"/> Enable
<b>Path Cost</b>	<input type="text" value="0"/> (0 - 200000000) (0 = Auto)
<b>Priority</b>	128 ▾
<b>Edge Port</b>	<input type="checkbox"/> Enable
<b>BPDU Filter</b>	<input type="checkbox"/> Enable
<b>BPDU Guard</b>	<input type="checkbox"/> Enable
<b>Point-to-Point</b>	<input checked="" type="radio"/> Auto <input type="radio"/> Enable <input type="radio"/> Disable
<b>Port State</b>	Disabled
<b>Designated Bridge</b>	0-00:00:00:00:00:00
<b>Designated Port ID</b>	128-1
<b>Designated Cost</b>	0
<b>Operational Edge</b>	False
<b>Operational Point-to-Point</b>	False

Figure 2.8.2-2

## 2.8.3 Instance Port Settings

MST instance configuration table MSTI configuration can be modified in this interface.

MST Instance Table

Q

MSTI	Priority	Bridge Identifier	Designated Root Bridge	Root Port	Root Path Cost	Remaining Hop	VLAN
<input type="radio"/> 0	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	1-4094
<input type="radio"/> 1	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 2	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 3	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 4	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 5	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 6	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 7	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 8	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 9	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 10	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 11	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 12	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 13	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 14	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	
<input type="radio"/> 15	32768	32768-00:28:79:10:10:22	0-00:00:00:00:00:00	N/A	0	0	

Edit

Figure 2.8.3-1

Edit MST Instance Setting

---

<b>MSTI</b>	0
<b>Priority</b>	<input type="text" value="32768"/> (0 - 61440, default 32768)
<b>Bridge Identifier</b>	32768-00:28:79:10:10:22
<b>Designated Root Bridge</b>	0-00:00:00:00:00:00
<b>Root Port</b>	
<b>Root Path Cost</b>	0
<b>Remaining Hop</b>	0

Apply Close

Figure 2.8.3-2

## 2.8.4 Instance Port Settings

Instance port setting interface. Select the corresponding MSTI in this interface to change the configuration in the corresponding port.

**MST Port Setting Table**

MSTI

Q

<input type="checkbox"/>	Entry	Port	Path Cost	Priority	Port Role	Port State	Mode	Type	Designated Bridge	Designated Port ID	Designated Cost	Remaining Hop
<input type="checkbox"/>	1	MGE1	0	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-1	0	20
<input type="checkbox"/>	2	MGE2	0	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-2	0	20
<input type="checkbox"/>	3	MGE3	0	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-3	0	20
<input type="checkbox"/>	4	MGE4	0	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-4	0	20
<input type="checkbox"/>	5	MGE5	20000	128	Disabled	Forwarding	RSTP	Boundary	0-00:00:00:00:00:00	128-5	0	20
<input type="checkbox"/>	6	TE1	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-6	0	20
<input type="checkbox"/>	7	TE2	2000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-7	0	20
<input type="checkbox"/>	8	LAG1	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-8	0	20
<input type="checkbox"/>	9	LAG2	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-9	0	20
<input type="checkbox"/>	10	LAG3	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-10	0	20
<input type="checkbox"/>	11	LAG4	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-11	0	20
<input type="checkbox"/>	12	LAG5	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-12	0	20
<input type="checkbox"/>	13	LAG6	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-13	0	20
<input type="checkbox"/>	14	LAG7	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-14	0	20
<input type="checkbox"/>	15	LAG8	20000	128	Disabled	Disabled	RSTP	Boundary	0-00:00:00:00:00:00	128-15	0	20

Figure 2.8.4-1

**Edit MST Port Setting**

---

<b>MSTI</b>	0
<b>Port</b>	MGE1
<b>Path Cost</b>	<input type="text" value="0"/> (0 - 200000000) (0 = Auto)
<b>Priority</b>	<input type="text" value="128"/>
<b>Port Role</b>	Disabled
<b>Port State</b>	Disabled
<b>Mode</b>	RSTP
<b>Type</b>	Boundary
<b>Designated Bridge</b>	0-00:00:00:00:00:00
<b>Designated Port ID</b>	128-1
<b>Designated Cost</b>	0
<b>Remaining Hop</b>	20

Figure 2.8.4-2

## 2.8.5 Message Statistics

The message statistics table displays the corresponding received/sent BPDUs, and you can select View/View Configuration and Refresh/Clear.

### Statistics Table

Refresh Rate  sec

<input type="checkbox"/>	Entry	Port	Receive BPDU			Transmit BPDU		
			Config	TCN	MSTP	Config	TCN	MSTP
<input type="checkbox"/>	1	MGE1	0	0	0	0	0	0
<input type="checkbox"/>	2	MGE2	0	0	0	0	0	0
<input type="checkbox"/>	3	MGE3	0	0	0	0	0	0
<input type="checkbox"/>	4	MGE4	0	0	0	0	0	0
<input type="checkbox"/>	5	MGE5	0	0	0	0	0	0
<input type="checkbox"/>	6	TE1	0	0	0	0	0	0
<input type="checkbox"/>	7	TE2	0	0	0	0	0	0
<input type="checkbox"/>	8	LAG1	0	0	0	0	0	0
<input type="checkbox"/>	9	LAG2	0	0	0	0	0	0
<input type="checkbox"/>	10	LAG3	0	0	0	0	0	0
<input type="checkbox"/>	11	LAG4	0	0	0	0	0	0
<input type="checkbox"/>	12	LAG5	0	0	0	0	0	0
<input type="checkbox"/>	13	LAG6	0	0	0	0	0	0
<input type="checkbox"/>	14	LAG7	0	0	0	0	0	0
<input type="checkbox"/>	15	LAG8	0	0	0	0	0	0

Figure 2.8.5-1

### Edit Port Setting

<b>Port</b>	MGE1
<b>Mode</b>	<input type="radio"/> Hybrid <input type="radio"/> Access <input checked="" type="radio"/> Trunk <input type="radio"/> Tunnel
<b>PVID</b>	<input type="text" value="1"/> (1 - 4094)
<b>Accept Frame Type</b>	<input checked="" type="radio"/> All <input type="radio"/> Tag Only <input type="radio"/> Untag Only
<b>Ingress Filtering</b>	<input checked="" type="checkbox"/> Enable
<b>Uplink</b>	<input type="checkbox"/> Enable
<b>TPID</b>	<input type="text" value="0x8100"/>

Figure 2.8.5-2

## 2.9 Multicast

### 2.9.1 Basic function

#### 2.9.1.1 Function configuration

Function configuration interface In this interface, you can select the corresponding forwarding mode for configuration.

The screenshot shows a configuration interface for Multicast Forward Method. It is divided into two main sections: 'Unknown Multicast Action' and 'Multicast Forward Method'.  
Under 'Unknown Multicast Action', there are three radio button options: 'Flood' (selected), 'Drop', and 'Forward to Router Port'.  
Under 'Multicast Forward Method', there are two sections: 'IPv4' and 'IPv6'.  
For 'IPv4', there are two radio button options: 'DMAC-VID' (selected) and 'DIP-VID'.  
For 'IPv6', there are two radio button options: 'DMAC-VID' and 'DIP-VID'.  
At the bottom left, there is an 'Apply' button.

Figure 2.9.1.1

#### 2.9.1.2 Static multicast configuration

Static Multicast Configuration Interface The multicast table can be configured in this interface.

The screenshot shows the 'Group Address Table' configuration interface. At the top, it says 'Group Address Table'. Below that, there is a dropdown menu for 'IP Version' set to 'IPv4'.  
There is a search bar with a magnifying glass icon and a text input field.  
Below the search bar, it says 'Showing 0 to 0 of 0 entries'.  
There is a table with the following columns: 'VLAN', 'Group Address', 'Member', 'Type', and 'Life (Sec)'. The table is currently empty, and it says '0 results found.' below it.  
At the bottom, there are four buttons: 'Add', 'Edit', 'Delete', and 'Refresh'.  
On the right side, there are navigation buttons: 'First', 'Previous', '1', 'Next', and 'Last'.

Figure 2.9.1.2-1

**Add Group Address**

<b>VLAN</b>	1				
<b>IP Version</b>					
<b>Group Address</b>					
<b>Member</b>	<table border="1"> <tr> <th>Available Port</th> <th>Selected Port</th> </tr> <tr> <td> MGE1  MGE2  MGE3  MGE4  MGE5  TE1  TE2  LAG1 </td> <td></td> </tr> </table>	Available Port	Selected Port	MGE1 MGE2 MGE3 MGE4 MGE5 TE1 TE2 LAG1	
	Available Port	Selected Port			
MGE1 MGE2 MGE3 MGE4 MGE5 TE1 TE2 LAG1					
<input type="button" value="Apply"/> <input type="button" value="Close"/>					

Figure 2.9.1.2-2

### 2.9.1.3 Routing port configuration

Routing Port Table Interface Routing ports can be configured in this interface.

**Router Port Table**

IP Version IPv4

Showing All entries Showing 0 to 0 of 0 entries

<input type="checkbox"/>	VLAN	Member	Static Port	Forbidden Port	Life (Sec)
0 results found.					

Figure 2.9.1.3-1

**Add Router Port**

<b>VLAN</b>	Available VLAN	Selected VLAN
	<input type="text"/>	<input type="text"/>
<b>IP Version</b>	<input type="text"/>	
<b>Type</b>	<input checked="" type="radio"/> Static <input type="radio"/> Forbidden	
<b>Port</b>	Available Port	Selected Port
	<input type="text"/> MGE1 MGE2 MGE3 MGE4 MGE5 TE1 TE2 LAG1	<input type="text"/>

Apply Close

Figure 2.9.1.3-2

### 2.9.1.4 Forwarding Port Configuration

Forwarding Port Table Interface Forwarding ports can be configured in this interface.

**Forward All Table**

IP Version

Showing  entries Showing 0 to 0 of 0 entries

<input type="checkbox"/>	VLAN	Static Port	Forbidden Port
0 results found.			

Add Edit Delete  First Previous Next Last

Figure 2.9.1.4-1

**Add Forward All**

<b>VLAN</b>	Available VLAN	Selected VLAN
	<input type="text"/>	<input type="text"/>
<b>IP Version</b>	<input type="text"/>	
<b>Type</b>	<input checked="" type="radio"/> Static <input type="radio"/> Forbidden	
<b>Port</b>	Available Port	Selected Port
	<input type="text"/> MGE1 MGE2 MGE3 MGE4 MGE5 TE1 TE2 LAG1	<input type="text"/>

Apply    Close

Figure 2.9.1.4-2

### 2.9.1.5 Port Restriction

The Port Restriction Table interface allows you to configure port restrictions here.

**Throttling Table**

IP Version

<input type="checkbox"/>	Entry	Port	Max Group	Exceed Action
<input type="checkbox"/>	1	MGE1	256	Deny
<input type="checkbox"/>	2	MGE2	256	Deny
<input type="checkbox"/>	3	MGE3	256	Deny
<input type="checkbox"/>	4	MGE4	256	Deny
<input type="checkbox"/>	5	MGE5	256	Deny
<input type="checkbox"/>	6	TE1	256	Deny
<input type="checkbox"/>	7	TE2	256	Deny
<input type="checkbox"/>	8	LAG1	256	Deny
<input type="checkbox"/>	9	LAG2	256	Deny
<input type="checkbox"/>	10	LAG3	256	Deny
<input type="checkbox"/>	11	LAG4	256	Deny
<input type="checkbox"/>	12	LAG5	256	Deny
<input type="checkbox"/>	13	LAG6	256	Deny
<input type="checkbox"/>	14	LAG7	256	Deny
<input type="checkbox"/>	15	LAG8	256	Deny

Figure 2.9.1.5-1

**Edit Throttling**

<b>Port</b>	MGE1
<b>IP Version</b>	IPv4
<b>Max Group</b>	<input type="text" value="256"/> (0 - 256)
<b>Exceed Action</b>	<input checked="" type="radio"/> Deny <input type="radio"/> Replace

Figure 2.9.1.5-2

### 2.9.1.6 Filter Rule Configuration

In the Filter Rule Table interface, you can configure the filter rules.

**Filtering Profile Table**

IP Version

Showing  entries Showing 0 to 0 of 0 entries

Q

<input type="checkbox"/>	Profile ID	Start Address	End Address	Action
0 results found.				

Figure 2.9.1.6-1

**Add Profile**

<b>Profile ID</b>	<input type="text"/> (1 - 128)
<b>IP Version</b>	<input type="text" value="v"/>
<b>Start Address</b>	<input type="text"/>
<b>End Address</b>	<input type="text"/>
<b>Action</b>	<input checked="" type="radio"/> Allow <input type="radio"/> Deny

Figure 2.9.1.6-2

### 2.9.1.7 Filter rule binding

Filter binding can be configured in the filter binding table interface.

**Filtering Binding Table**

IP Version

Q

<input type="checkbox"/>	Entry	Port	Profile ID
<input type="checkbox"/>	1	MGE1	
<input type="checkbox"/>	2	MGE2	
<input type="checkbox"/>	3	MGE3	
<input type="checkbox"/>	4	MGE4	
<input type="checkbox"/>	5	MGE5	
<input type="checkbox"/>	6	TE1	
<input type="checkbox"/>	7	TE2	
<input type="checkbox"/>	8	LAG1	
<input type="checkbox"/>	9	LAG2	
<input type="checkbox"/>	10	LAG3	
<input type="checkbox"/>	11	LAG4	
<input type="checkbox"/>	12	LAG5	
<input type="checkbox"/>	13	LAG6	
<input type="checkbox"/>	14	LAG7	
<input type="checkbox"/>	15	LAG8	

Figure 2.9.1.7-1

**Edit Filtering Binding**

---

<b>Port</b>	MGE1
<b>IP Version</b>	IPv4
<b>Profile ID</b>	<input type="checkbox"/> Enable <input type="button" value="v"/>

---

Figure 2.9.1.7-2

## 2.9.2 IGMP Snooping

### 2.9.2.1 Function configuration

The function configuration interface can be configured in this interface.

**Status:** Closed by default

**Version:** select the corresponding version IGMPV2/IGMPV3

<b>State</b>	<input type="checkbox"/> Enable
<b>Version</b>	<input checked="" type="radio"/> IGMPv2 <input type="radio"/> IGMPv3
<b>Report Suppression</b>	<input checked="" type="checkbox"/> Enable

**VLAN Setting Table**

<input type="checkbox"/>	VLAN	Operational Status	Router Port Auto Learn	Query Robustness	Query Interval	Query Max Response Interval	Last Member Query Counter	Last Member Query Interval	Immediate Leave
<input type="checkbox"/>	1	Disabled	Enabled	2	125	10	2	1	Disabled

Figure 2.9.2.1-1

**Edit VLAN Setting**

<b>VLAN</b>	1
<b>State</b>	<input type="checkbox"/> Enable
<b>Router Port Auto Learn</b>	<input checked="" type="checkbox"/> Enable
<b>Immediate leave</b>	<input type="checkbox"/> Enable
<b>Query Robustness</b>	<input type="text" value="2"/> (1 - 7, default 2)
<b>Query Interval</b>	<input type="text" value="125"/> Sec (30 - 18000, default 125)
<b>Query Max Response Interval</b>	<input type="text" value="10"/> Sec (5 - 20, default 10)
<b>Last Member Query Counter</b>	<input type="text" value="2"/> (1 - 7, default 2)
<b>Last Member Query Interval</b>	<input type="text" value="1"/> Sec (1 - 25, default 1)
<b>Operational Status</b>	
<b>Status</b>	Disabled
<b>Query Robustness</b>	2
<b>Query Interval</b>	125 (Sec)
<b>Query Max Response Interval</b>	10 (Sec)
<b>Last Member Query Counter</b>	2
<b>Last Member Query Interval</b>	1 (Sec)

Apply Close

Figure 2.9.2.1-2

### 2.9.2.2 Querier Configuration

Querier Configuration Table The version of the querier can be configured in this interface.

**Querier Table**

Q

<input type="checkbox"/>	VLAN	State	Operational Status	Version	Querier Address
<input type="checkbox"/>	1	Disabled	Disabled		

Edit

Figure 2.9.2.2-1

**Edit Querier**

<b>VLAN</b>	1
<b>State</b>	<input type="checkbox"/> Enable
<b>Version</b>	<input checked="" type="radio"/> IGMPv2 <input type="radio"/> IGMPv3

Apply Close

Figure 2.9.2.2-2

### 2.9.2.3 Message Statistics

The message statistics table displays the corresponding IGMP Snooping message on the secondary interface.

Receive Packet		
Total		0
Valid		0
InValid		0
Other		0
Leave		0
Report		0
General Query		0
Special Group Query		0
Source-specific Group Query		0
Transmit Packet		
Leave		0
Report		0
General Query		0
Special Group Query		0
Source-specific Group Query		0

Clear Refresh

Figure 2.9.2.3

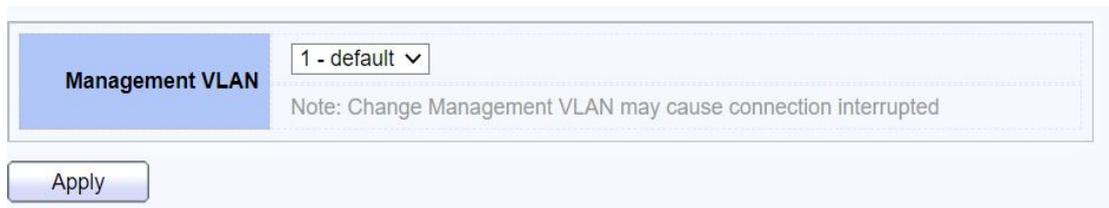
## 2. 10 safe

---

### 2. 10. 1 Manage Channel Configuration

#### 2.10.1.1 Management VLAN

The management VLAN interface displays the corresponding management V LAN. Select the corresponding management VLAN and apply it. The applicati on takes effect immediately.



The screenshot shows a configuration panel for the Management VLAN. On the left, there is a blue header labeled "Management VLAN". To its right is a dropdown menu currently showing "1 - default" with a downward arrow. Below the dropdown, a note in a dashed box reads: "Note: Change Management VLAN may cause connection interrupted". At the bottom left of the panel is a button labeled "Apply".

Figure 2. 10. 1. 1

#### 2.10.1.2 Management Services

The management service interface displays the corresponding management maintenance. Select the corresponding option and apply it. The application ta kes effect immediately.

Management Service		
Telnet	<input type="checkbox"/>	Enable
SSH	<input type="checkbox"/>	Enable
HTTP	<input checked="" type="checkbox"/>	Enable
HTTPS	<input type="checkbox"/>	Enable
SNMP	<input checked="" type="checkbox"/>	Enable

Session Timeout		
Console	<input type="text" value="10"/>	Min (0 - 65535, default 10)
Telnet	<input type="text" value="10"/>	Min (0 - 65535, default 10)
SSH	<input type="text" value="10"/>	Min (0 - 65535, default 10)
HTTP	<input type="text" value="10"/>	Min (0 - 65535, default 10)
HTTPS	<input type="text" value="10"/>	Min (0 - 65535, default 10)

Password Retry Count		
Console	<input type="text" value="3"/>	(0 - 120, default 3)
Telnet	<input type="text" value="3"/>	(0 - 120, default 3)
SSH	<input type="text" value="3"/>	(0 - 120, default 3)

Silent Time		
Console	<input type="text" value="0"/>	Sec (0 - 65535, default 0)
Telnet	<input type="text" value="0"/>	Sec (0 - 65535, default 0)
SSH	<input type="text" value="0"/>	Sec (0 - 65535, default 0)

Figure 2. 10. 1. 2

## 2. 11 QOS

---

### 2. 11. 1 Basic function

#### 2.11.1.1 Function configuration

Function configuration interface The trust mode and port can be configured in this interface.

State Enable

**Trust Mode**
 CoS
  DSCP
  CoS-DSCP
  IP Precedence

Apply

### Port Setting Table

<input type="checkbox"/>	Entry	Port	CoS	Trust	Remarking		
					CoS	DSCP	IP Precedence
<input type="checkbox"/>	1	MGE1	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	2	MGE2	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	3	MGE3	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	4	MGE4	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	5	MGE5	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	6	TE1	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	7	TE2	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	8	LAG1	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	9	LAG2	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	10	LAG3	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	11	LAG4	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	12	LAG5	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	13	LAG6	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	14	LAG7	0	Enabled	Disabled	Disabled	Disabled
<input type="checkbox"/>	15	LAG8	0	Enabled	Disabled	Disabled	Disabled

Edit

Figure 2. 11. 1. 1-1

### Edit Port Setting

**Port** MGE1

**CoS**  (0 - 7)

**Trust**  Enable

**Remarking**

**CoS**  Enable

**DSCP**  Enable

**IP Precedence**  Enable

Apply Close

Figure 2. 11. 1. 1-2

### 2.11.1.2 Queue Scheduling

Queue Scheduling Interface You can configure the scheduling method in this interface.

Queue	Method			
	Strict Priority	WRR	Weight	WRR Bandwidth (%)
1	<input checked="" type="radio"/>	<input type="radio"/>	1	
2	<input checked="" type="radio"/>	<input type="radio"/>	2	
3	<input checked="" type="radio"/>	<input type="radio"/>	3	
4	<input checked="" type="radio"/>	<input type="radio"/>	4	
5	<input checked="" type="radio"/>	<input type="radio"/>	5	
6	<input checked="" type="radio"/>	<input type="radio"/>	9	
7	<input checked="" type="radio"/>	<input type="radio"/>	13	
8	<input checked="" type="radio"/>	<input type="radio"/>	15	

Apply

Figure 2. 11. 1. 2

### 2.11.1.3 CoS mapping

CoS mapping interface The CoS-queue mapping table/queue-CoS mapping table can be configured on this interface.

**CoS to Queue Mapping**

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

Apply

**Queue to CoS Mapping**

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

Apply

Figure 2. 11. 1. 3

### 2.11.1.4 DSCP mapping

DSCP mapping interface This interface allows you to configure DSCP-queue/queue-DSCP.

**DSCP to Queue Mapping**

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

Apply

**Queue to DSCP Mapping**

Queue	DSCP
1	0 [CS0]
2	8 [CS1]
3	16 [CS2]
4	24 [CS3]
5	32 [CS4]
6	40 [CS5]
7	48 [CS6]
8	56 [CS7]

Apply

Figure 2. 11. 1. 4

### 2.11.1.5 IP Priority Mapping

IP Priority Mapping Interface This interface allows you to configure the IP priority-to-queue mapping table/queue-to-IP priority mapping table.

### IP Precedence to Queue Mapping

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

Apply

---

### Queue to IP Precedence Mapping

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

Apply

Figure 2. 11. 1. 5

## 2. 11. 2 Bandwidth speed limit

### 2.11.2.1 Port speed limit

The port speed limit interface can set the speed limit of the corresponding port here.

Ingress / Egress Port Table

	Entry	Port	Ingress		Egress	
			State	Rate (Kbps)	State	Rate (Kbps)
<input type="checkbox"/>	1	MGE1	Disabled		Disabled	
<input type="checkbox"/>	2	MGE2	Disabled		Disabled	
<input type="checkbox"/>	3	MGE3	Disabled		Disabled	
<input type="checkbox"/>	4	MGE4	Disabled		Disabled	
<input type="checkbox"/>	5	MGE5	Disabled		Disabled	
<input type="checkbox"/>	6	TE1	Disabled		Disabled	
<input type="checkbox"/>	7	TE2	Disabled		Disabled	

Edit

Figure 2. 11. 2. 1-1

**Edit Ingress / Egress Port**

<b>Port</b>	MGE1	
<b>Ingress</b>	<input type="checkbox"/> Enable	
	<input type="text" value="1000000"/>	Kbps (16 - 1000000)
<b>Egress</b>	<input type="checkbox"/> Enable	
	<input type="text" value="1000000"/>	Kbps (16 - 1000000)

Figure 2. 11. 2. 1-2

### 2.11.2.2 Exit queue speed limit

On the exit queue speed restriction interface, you can set the speed restriction for the corresponding port queue.

**Egress Queue Table**

Entry	Port	Queue 1		Queue 2		Queue 3		Queue 4		Queue 5		Queue 6		Queue 7		Queue 8	
		State	CIR (Kbps)														
<input type="checkbox"/>	1 MGE1	Disabled															
<input type="checkbox"/>	2 MGE2	Disabled															
<input type="checkbox"/>	3 MGE3	Disabled															
<input type="checkbox"/>	4 MGE4	Disabled															
<input type="checkbox"/>	5 MGE5	Disabled															
<input type="checkbox"/>	6 TE1	Disabled															
<input type="checkbox"/>	7 TE2	Disabled															

Figure 2. 11. 2. 2-1

**Edit Egress Queue**

Port	MGE1
Queue 1	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 2	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 3	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 4	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 5	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 6	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 7	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)
Queue 8	<input type="checkbox"/> Enable <input type="text" value="1000000"/> Kbps (16 - 1000000)

Figure 2. 11. 2. 2-2

## 2. 12 Device Diagnostics

---

### 2. 12. 1 Log Function

#### 2.12.1.1 Function configuration

Log function interface The log function can be configured in this interface.

<b>State</b>	<input checked="" type="checkbox"/> Enable
<b>Aggregation</b>	<input checked="" type="checkbox"/> Enable
<b>Aging Time</b>	<input type="text" value="300"/> Sec (15 - 3600, default 300)
<b>RAM Logging</b>	
<b>State</b>	<input checked="" type="checkbox"/> Enable
<b>Minimum Severity</b>	<input type="text" value="Notice"/> Note: Emergency, Alert, Critical, Error, Warning, Notice
<b>Flash Logging</b>	
<b>State</b>	<input type="checkbox"/> Enable
<b>Minimum Severity</b>	<input type="text" value="Notice"/> Note: Emergency, Alert, Critical, Error, Warning, Notice

Figure 2. 12. 1. 1

### 2.12.1.2 Remote Server Configuration

Remote Server Configuration Interface This interface allows you to configure a remote server.

Remote Server Table

Q

<input type="checkbox"/>	Entry	Server Address	Server Port	Facility	Minimum Severity
0 results found.					

Figure 2. 12. 1. 2-1

**Add Remote Server**

---

<b>Address Type</b>	<input checked="" type="radio"/> Hostname <input type="radio"/> IPv4 <input type="radio"/> IPv6
<b>Server Address</b>	<input type="text"/>
<b>Server Port</b>	<input type="text" value="514"/> (1 - 65535, default 514)
<b>Facility</b>	Local 7 ▾
<b>Minimum Severity</b>	Notice ▾

Note: Emergency, Alert, Critical, Error, Warning, Notice

Figure 2. 12. 1. 2-2

## 2. 12. 2 Ping

Ping Interface This interface enables you to ping the host name/IPV/IPV6.

<b>Address Type</b>	<input checked="" type="radio"/> Hostname <input type="radio"/> IPv4 <input type="radio"/> IPv6
<b>Server Address</b>	<input type="text"/>
<b>Count</b>	<input type="text" value="4"/> (1 - 32)

**Ping Result**

Packet Status	
<b>Status</b>	N/A
<b>Transmit Packet</b>	0
<b>Receive Packet</b>	0
<b>Packet Lost</b>	0%

Round Trip Time	
<b>Min</b>	0.0 ms
<b>Max</b>	0.0 ms
<b>Average</b>	0.0 ms

Figure 2. 12. 2

### 2. 12. 3 Traceroute

The Traceroute interface can query the host name/IPV4 in the secondary interface.

The screenshot shows a configuration window for a Traceroute tool. It is divided into several sections:

- Address Type:** Two radio buttons are present. The first is labeled "Hostname" and is selected with a blue dot. The second is labeled "IPv4" and is unselected.
- Server Address:** A text input field is currently empty.
- Time to Live:** A text input field contains the number "30". To its right, the text "(2 - 255, default 30)" is displayed.
- User Defined:** A checkbox is located to the left of the Time to Live field, and it is currently unchecked.
- Buttons:** Below the configuration fields are two buttons: "Apply" (highlighted in light blue) and "Stop" (greyed out).
- Traceroute Result:** A red heading is followed by a large, empty rectangular box intended for displaying the results of the traceroute.

Figure 2. 12. 3

### 2. 12. 4 Electrical Port Test

Electrical port test interface The electrical port can be tested in this interface.

Port

Copper Test

### Copper Test Result

Cable Status	
Port	N/A
Result	N/A
Length	N/A

Figure 2. 12. 4

## 2. 12. 5 Optical module information

The optical module information interface displays the corresponding information of the optical module

Fiber Module Table

Q

	Port	Temperature (C)	Voltage (V)	Current (mA)	Output Power (mW)	Input Power (mW)	OE Present	Loss of Signal
<input type="radio"/>	TE1	N/S	N/S	N/S	N/S	N/S	Remove	Loss
<input type="radio"/>	TE2	N/S	N/S	N/S	N/S	N/S	Remove	Loss

Refresh Detail

Figure 2. 12. 5



Only for SFP machines and modules that support DDM information.

## 2. 13 Equipment Management

---

### 2. 13. 1 User Configuration

The user configuration interface can configure the user.

**Modify:** The user name and password of the switch management account can be modified on the user setting page. If a new user name is set on this page,

the original user name will be invalid.

**Add:** On the User Settings page, you can add the user name and password of the switch management account. And select that correspond permission.



Figure 2. 13. 1-1

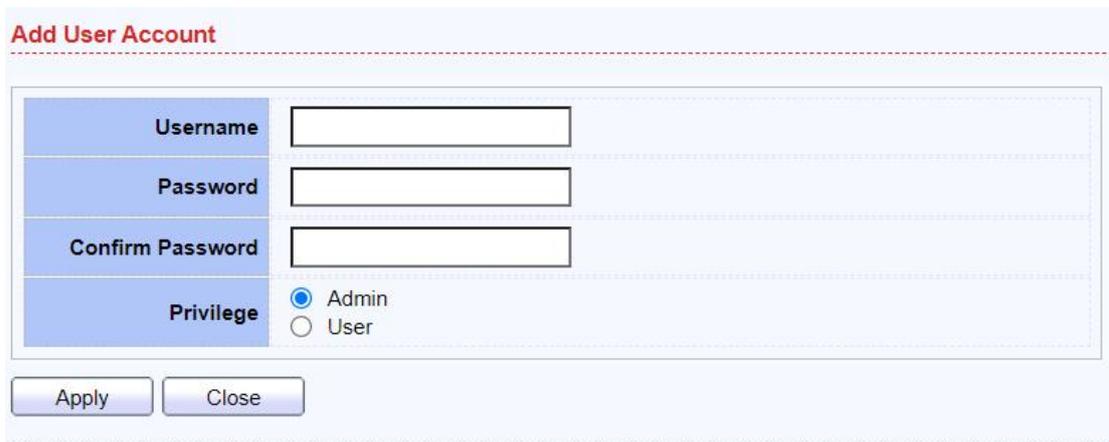


Figure 2. 13. 1-2



Figure 2. 13. 1-3

## 2. 13. 2 Firmware Management

### 2.13.2.1 Upgrade

The firmware upgrade interface provides firmware update and firmware upgrade functions.

**Upgrade the firmware:** Upgrade the corresponding firmware on the switch.

**Backup:** Export the firmware on the switch to backup the firmware.

**File name:** select the file name of the corresponding firmware



The screenshot shows a web-based configuration interface for firmware management. It features three main sections: 'Action', 'Method', and 'Filename'. The 'Action' section has two radio buttons: 'Upgrade' (selected) and 'Backup'. The 'Method' section has two radio buttons: 'TFTP' and 'HTTP' (selected). The 'Filename' section contains a text input field with a '选择文件' (Select File) button and the text '未选择任何文件' (No file selected). Below these sections is an 'Apply' button.

Figure 2. 13. 2. 1

## 2. 13. 3 Configuration Management

### 2.13.3.1 Upgrade

Configure the upgrade interface to update the firmware upgrade function.

**Upgrade the firmware:** upgrade and restore the corresponding configuration file on the switch.

**Backup:** Export the configured on this switch for backup configuration.

**Configuration:** select the corresponding configuration for upgrade and backup (run configuration/start configuration/backup configuration)

**File name:** corresponding to the configuration file name.

<b>Action</b>	<input checked="" type="radio"/> Upgrade <input type="radio"/> Backup
<b>Method</b>	<input type="radio"/> TFTP <input checked="" type="radio"/> HTTP
<b>Configuration</b>	<input checked="" type="radio"/> Running Configuration <input type="radio"/> Startup Configuration <input type="radio"/> Backup Configuration <input type="radio"/> RAM Log <input type="radio"/> Flash Log
<b>Filename</b>	<input type="button" value="选择文件"/> 未选择任何文件

Figure 2. 13. 3. 1

### 2.13.3.2 Save Configuration

Save Configuration Interface You can perform configuration saving settings in this interface.

Save the changes made in the management page. The unsaved configuration will be lost on the next reboot.

**Source File:** Select the corresponding configuration to be saved. The default is the running configuration (running configuration/startup configuration/backup configuration).

**Current file:** Select the corresponding configuration (startup configuration/backup configuration)

**Restore factory settings:** Restore the switch to the factory default settings. Click "Restore factory settings" and restart the switch to take effect.

<b>Source File</b>	<input checked="" type="radio"/> Running Configuration <input type="radio"/> Startup Configuration <input type="radio"/> Backup Configuration
<b>Destination File</b>	<input checked="" type="radio"/> Startup Configuration <input type="radio"/> Backup Configuration

Figure 2. 13. 3. 2

## 2. 13. 4 SNMP Configuration

### 2.13.4.1 View Configuration

In the view configuration interface, select the corresponding display item for display configuration. (10,30,50,100)

Add Add View for configuration.



Figure 2. 13. 4. 1-1



Figure 2. 13. 4. 1-2

### 2.13.4.2 Group Configuration

In the group configuration interface, select the corresponding displayed item for display configuration. (10,30,50,100)

Add Group selects the corresponding version for configuration/modification.

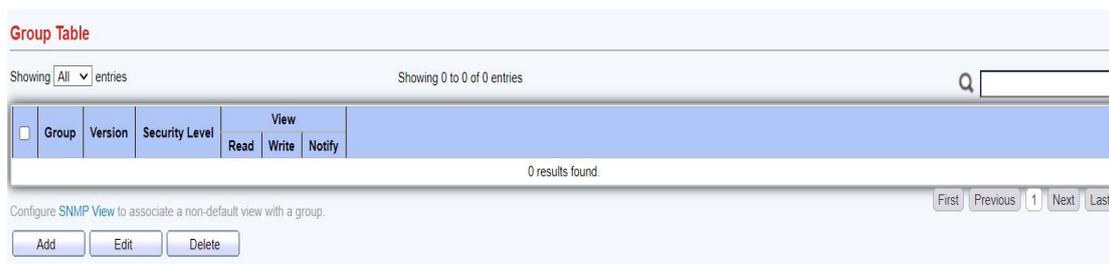


Figure 2. 13. 4. 2-1

**Add Group**

<b>Group</b>	<input type="text"/>
<b>Version</b>	<input checked="" type="radio"/> SNMPv1 <input type="radio"/> SNMPv2 <input type="radio"/> SNMPv3
<b>Security Level</b>	<input checked="" type="radio"/> No Security <input type="radio"/> Authentication <input type="radio"/> Authentication and Privacy
<b>View</b>	<input checked="" type="checkbox"/> Read
	<input type="text" value="all"/> ▼
	<input type="checkbox"/> Write
	<input type="text" value="all"/> ▼
	<input type="checkbox"/> Notify
	<input type="text" value="all"/> ▼

Figure 2. 13. 4. 2-2

### 2.13.4.3 Group configuration

Community Table selects the corresponding display item for display configuration. (10,30,50,100)

Add Community interface for configuration/modification.

**Community Table**

Showing  entries Showing 1 to 2 of 2 entries

<input type="checkbox"/>	Community	Group	View	Access
<input type="checkbox"/>	private		all	Read-Write
<input type="checkbox"/>	public		all	Read-Only

The access right of a community is defined by a group under advanced mode.  
Configure [SNMP Group](#) to associate a group with a community.

Figure 2. 13. 4. 3-1

**Add Community**

---

<b>Community</b>	<input type="text"/>
<b>Type</b>	<input checked="" type="radio"/> Basic <input type="radio"/> Advanced
<b>View</b>	all ▾
<b>Access</b>	<input checked="" type="radio"/> Read-Only <input type="radio"/> Read-Write
<b>Group</b>	▾

Apply    Close

---

Figure 2. 13. 4. 3-2

#### 2.13.4.4 User Configuration

User Table selects the corresponding displayed entry for display configuration.

( 10,30,50,100 )

Configure an SNMP group to associate an SNMPv3 group with an SNMPv3 user.

**User Table**

Showing All ▾ entries      Showing 0 to 0 of 0 entries     

<input type="checkbox"/>	User	Group	Security Level	Authentication Method	Privacy Method
0 results found.					

Configure [SNMP Group](#) to associate an SNMPv3 group with an SNMPv3 user.

First   Previous   1   Next   Last

Add   Edit   Delete

Figure 2. 13. 4. 4

### 2.13.4.5 Engine ID Configuration

**Local Engine ID**

User Defined

Engine ID: 80006a9203002879101022 (10 - 64 Hexadecimal Characters)

Apply

**Remote Engine ID Table**

Showing All entries Showing 0 to 0 of 0 entries

Server Address	Engine ID
0 results found.	

Add Edit Delete First Previous 1 Next Last

Figure 2. 13. 4. 5-1

**Add Remote Engine ID**

**Address Type**

Hostname  
 IPv4  
 IPv6

**Server Address** [Text Input]

**Engine ID** [Text Input] (10 - 64 Hexadecimal Characters)

Apply Close

Figure 2. 13. 4. 5-2

### 2.13.4.6 Trap Configuration

<b>Authentication Failure</b>	<input checked="" type="checkbox"/> Enable
<b>Link Up / Down</b>	<input checked="" type="checkbox"/> Enable
<b>Cold Start</b>	<input checked="" type="checkbox"/> Enable
<b>Warm Start</b>	<input checked="" type="checkbox"/> Enable

Apply

Figure 2. 13. 4. 6

## 2.13.4.7 Notification Configuration

**Notification Table**

Showing **All** entries Showing 1 to 1 of 1 entries

<input type="checkbox"/>	Server Address	Server Port	Timeout	Retry	Version	Type	Community / User	Security Level
<input type="checkbox"/>	1.1.1.254	162			SNMPv2	Trap	private	No Security

For SNMPv1,2 Notification, **SNMP Community** needs to be defined.  
For SNMPv3 Notification, **SNMP User** must be created.

First Previous 1 Next Last

Add Edit Delete

Figure 2. 13. 4. 7-1

**Add Notification**

<b>Address Type</b>	<input checked="" type="radio"/> Hostname <input type="radio"/> IPv4 <input type="radio"/> IPv6
<b>Server Address</b>	<input type="text"/>
<b>Version</b>	<input checked="" type="radio"/> SNMPv1 <input type="radio"/> SNMPv2 <input type="radio"/> SNMPv3
<b>Type</b>	<input checked="" type="radio"/> Trap <input type="radio"/> Inform
<b>Community / User</b>	private <input type="text"/>
<b>Security Level</b>	<input checked="" type="radio"/> No Security <input type="radio"/> Authentication <input type="radio"/> Authentication and Privacy
<b>Server Port</b>	<input checked="" type="checkbox"/> Use Default <input type="text" value="162"/> (1 - 65535, default 162)
<b>Timeout</b>	<input checked="" type="checkbox"/> Use Default <input type="text" value="15"/> Sec (1 - 300, default 15)
<b>Retry</b>	<input checked="" type="checkbox"/> Use Default <input type="text" value="3"/> (1 - 255, default 3)

Apply Close

Figure 2. 13. 4. 7-2