

Web Management Guide

(GTP-5271)



V1.0

Digital Data Communications GmbH.
<http://www.level1.com>

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Preface

Thank you for using our products. This manual will guide you through the installation of the device.

This manual describes the functional and physical features and provides the device installation steps, hardware troubleshooting, WEB configuration, module technical specifications, and specifications and usage guidelines for cables and connectors.

Audience

It is intended for the users who have some experience in installing and maintaining network. At the same time, it is assumed that the users are already familiar with the related terms and concepts.

Symbol Conventions



It means reader take note. Notes contain helpful suggestions or references.



It means reader be careful. In this situation, you might do something that could result in equipment damage or loss of data.

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1. Product Introduction

Congratulations on your purchasing of the 48-Port Gigabit + 4-Port 10G SFP+ L2 Managed PoE Switch. Before you install and use this product, please read this manual carefully for full exploiting the functions of this product.

1.1. Product Overview

This is a new generation designed for high security and high performance network the L2 switch. Provides forty-eight 10/100/1000Mbps self-adaption RJ45 port, plus four 10G SFP+ optical port, it can be used to link bandwidth higher upstream equipment. Support VLAN ACL based on port, easily implement network monitoring, traffic regulation, priority tag and traffic control. Support traditional STP/RSTP/MSTP 2 link protection technology; greatly improve the ability of fault tolerance, redundancy backup to ensure the stable operation of the network. Support ACL control based on the time, easy control the access time accurately. Support 802.1x authentication based on the port and MAC, easily set user access. Perfect QoS strategy and plenty of VLAN function, easy to maintenance and management, meet the networking and access requirements of enterprises, intelligent village, hotel, office network and campus network. Built-in high reliability, design for wide voltage input application power supply, even if the voltage is not stable of power grid, also can guarantee the equipment can work normally.

48 ports have PoE power supply function, support IEEE802.3at standard, 802.3af downward compatibility, power supply equipment for Ethernet, can automatically detect identification standard of electrical equipment, and through the cable for the power supply.

1.2. Features

- Supports IEEE 802.3i, IEEE 802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3ae, IEEE802.3x, IEEE802.3at, IEEE802.3af, IEEE802.3az.
- Supports PoE power up to 30W for each PoE port, all power up to 400W.
- Integrated High-Performance Cortex-A9 processor.
- Supports MAC address auto-learning and auto-aging.
- Forty-eight 10/100/1000Mbps self-adaption RJ45 port, plus four 10g SFP+ port, it can be used to link bandwidth higher upstream equipment.
- Store and forward mode operates.
- LED indicators for monitoring power, link/activity, Speed, PoE.
- Support QoS, port mirroring, link aggregation protocol.
- 19 inches full metal iron shell and internal 450W high performance power supply design, suitable for rack installation

1.3. External Component Description

1.3.1. Front Panel

The front panel of the Switch consists of a series of LED indicators, 48 x 10/100/1000Mbps RJ-45 ports, 1x Console port, four gigabit SFP+ ports and 1 x Reset button as shown as below.



Figure 1 - Front Panel

10/100/1000Mbps RJ-45 ports (1~48):

Designed to connect to the device with a bandwidth of 10Mbps, 100Mbps or 1000Mbps. Each has a corresponding Link/Act/Speed and PoE indicator.

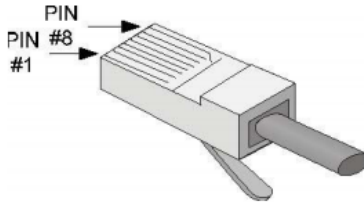


Figure 2 - RJ45 Connection

Console port (Console):

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

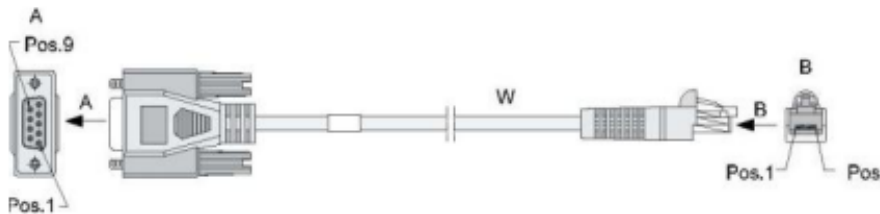


Figure 3 - Console Port Connection

SFP+ ports (48~52):

Designed to install the SFP module and connect to the device with bandwidth 1000/10000Mbps .Each has two corresponding LED indicators.

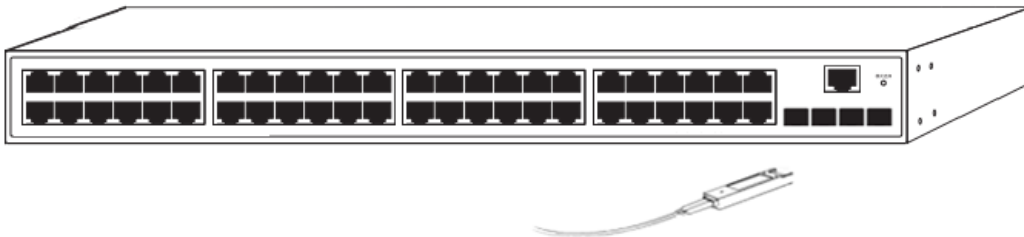


Figure 4 - SFP+ Connection

Reset button (Reset):

Keep the device powered on and push a paper clip into the hole. Press down the button for 5 seconds to restore the Switch to its original factory default settings.

LED indicators:

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

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

LED Indicator	Faceplate Marker	Status	Indication
Power Indicator	PWR	Off	Power Off
		Solid green	Power On
10/100/1000 BASE-T adaptive Ethernet port indicators (1-48)	Link/Act /Speed	Off	The port is NOT connected.
		Solid green	The port is connected at 1000Mbps.
		Solid orange	The port is connected at 100/10Mbps
		Blinking	The port is transmitting or receiving data.
SFP port indicators (49-52)	Link/Act /Speed	Off	The port is NOT connected.
		Solid green	The port is connected at 10Gbps.
		Solid orange	The port is connected at 1Gbps
		Blinking	The port is transmitting or receiving data.
SYS indicator	SYS	Off	System is abnormal or not running
		Blinking green	System is normal

1.3.2. Rear Panel

The rear panel of the Switch contains Heat vent shown as below.



Figure 5 - Rear Panel

Grounding Terminal:

Located on the left side of the power supply connector, use wire grounding to lightning protection.

AC Power Connector:

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

1.4. Package Contents

Before installing the Switch, make sure that the following the "packing list" listed OK. If any part is lost and damaged, please contact your local agent immediately. In addition, make sure that you have the tools install switches and cables by your hands.

- One PoE Web Smart Ethernet Switch.
- One Installation Component
- One AC power cord.
- One User Manual.

2. Installing and Connecting the Switch

This part describes how to install your PoE Ethernet Switch and make connections to it. Please read the following topics and perform the procedures in the order being presented.

2.1. Installation

Please follow the following instructions in avoid of incorrect installation causing device damage and security threat.

- Put the Switch on stable place or desktop in case of falling damage.
- 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, do not open the Switch's shell even in power failure.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- Make sure the cabinet to enough back up the weight of the Switch and its accessories.

2.1.1. Desktop Installation

Sometimes users are not equipped with the 19-inch standard cabinet. So when installing the Switch on a desktop, please attach these cushioning rubber feet provided on the bottom at each corner of the Switch in case of the external vibration. Allow adequate space for ventilation between the device and the objects around it.

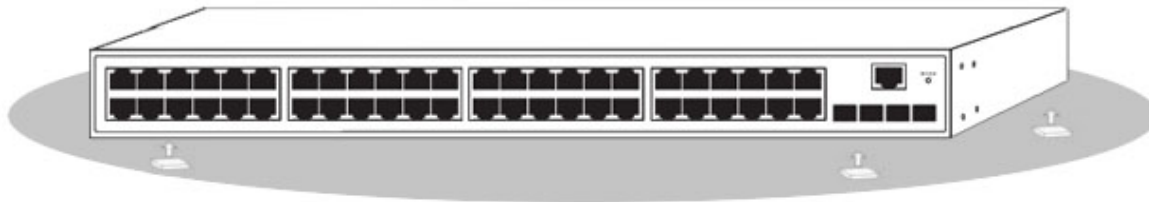


Figure 6 - Desktop Installation

-
- ⚠ 1. Please keep the switch in a dry and well ventilated environment.
 - ⚠ 2. Keep the workbench stable and well-earthed.
 - ⚠ 3. Do not restrict airflow by covering or obstructing air inlets of the switch. Keep more than 10 centimeters free on all sides for cooling. Be sure there is adequate airflow in the room or wiring closet where the switch is installed.
 - ⚠ 4. Don't put heavy articles on the Switch.
 - ⚠ 5. Make sure there is more than 1.5 centimeters vertical distance free between devices that stack each other.
-

2.1.2. 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, please 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.

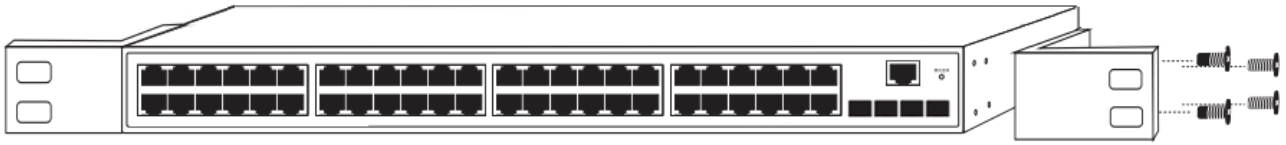


Figure 7 - Bracket Installation

B. Use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.

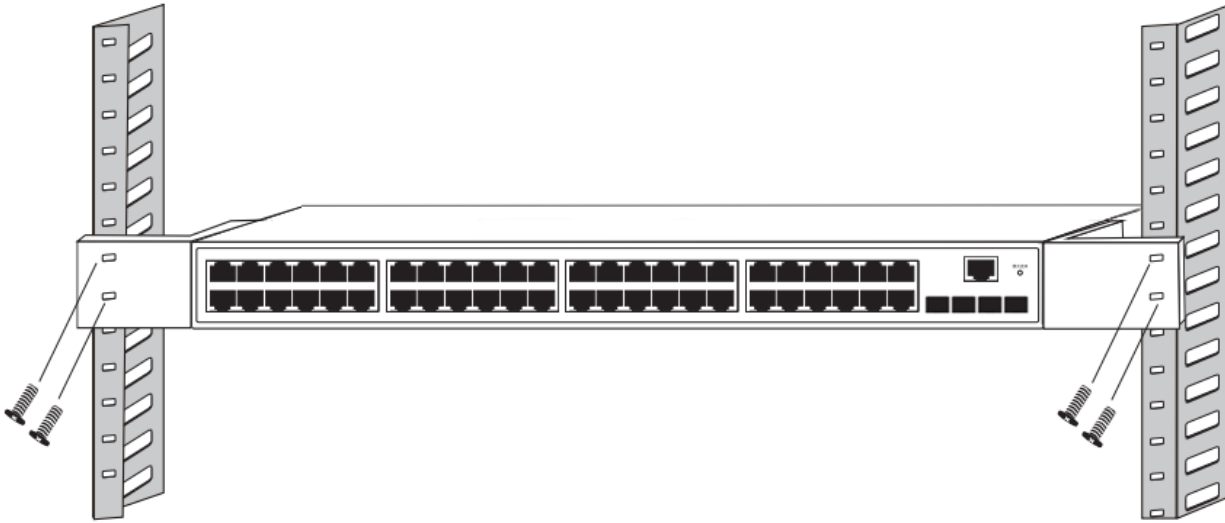


Figure 8 - Rack Installation

2.1.3. Power on the Switch

The Switch is powered on by the AC 100-240V 50/60Hz internal high-performance power supply. Please follow the next tips to connect:

AC Electrical Outlet:

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

AC Power Cord Connection:

Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON or not. When it is ON, it indicates the power connection is OK.

2.2. Connect Computer (NIC) to the Switch

Please insert the NIC into the computer, after installing network card driver, please connect one end of the twisted pair to RJ-45 jack of your computer, the other end will be connected to any RJ-45 port of the

Switch, the distance between Switch and computer is around 100 meters. Once the connection is OK and the devices are power on normally, the LINK/ACT/Speed status indicator lights corresponding ports of the Switch.

2.3. Switch connection to the PD

1-48 ports of the Switch have PoE power supply function, the maximum output power up to 30W each port, it can make PD devices, such as internet phone, network camera, wireless access point work. You only need to connect the Switch PoE port directly connected to the PD port by network cable.

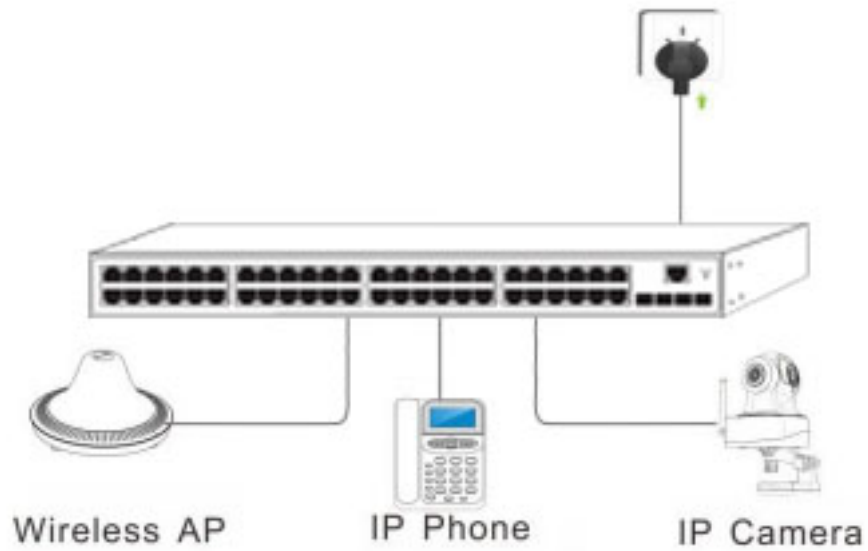


Figure 9 - PD devices connection

3. How to Login the Switch

3.1. Switch to End Node

Use standard Cat.5/5e 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 is connected.

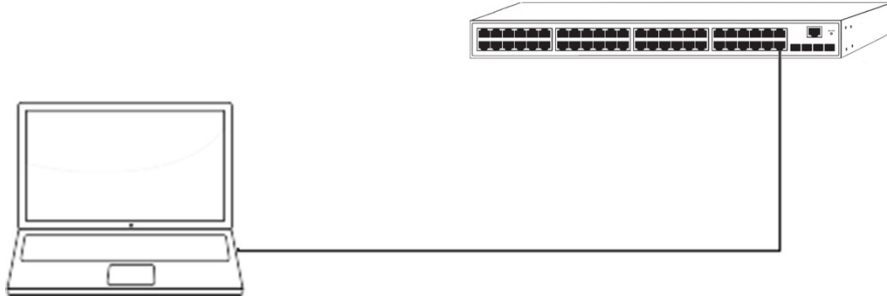


Figure 10 - Connect PC to Switch

Please refer to the LED Indicators. The LINK/ACT/Speed LEDs for each port lights on when the link is available.

3.2. How to Login 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	192.168.1.1
Default user name	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: 192.168.1.xxx ("xxx" ranges 2~254), for example, 192.168.1.100.
4. Open the browser, and enter `http://192.168.1.1` and then press "Enter". The Switch login window appears, as shown below.



admin

.....

Login

Figure 7- Login Windows

5. Switching language to English .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

level one

Save Status Logout

Basic Setting
Advanced Application
Management

Port	Name	Link	Set Speed	State	LACP	TxPkts	RxPkts	Errors	Tx Bits/s	Rx Bits/s	Up Time
GE0/0/1		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/2		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/3		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/4		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/5		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/6		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/7		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/8		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/9		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/10		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/11		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/12		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/13		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/14		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/15		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/16		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/17		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/18		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/19		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/20		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/21		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/22		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/23		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/24		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/25		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/0/26		down	auto	disabled	disabled	0	0	0	0	0	0:00:00

Any Port Clear Counter

4. WEB Configuration Guide

Switch configuration interface consists of 3 main areas, areas for the status bar at the top, the area on the left menu bar, right the main configuration window. Select the different functions in the function menu bar, you can modify all settings in the main configuration window.

Port	Name	Link	Set	Speed	State	LACP	TxPkts	RxPkts	Errors	Tx Bits/s	Rx Bits/s	Up Time
GE0/0/1		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/2		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/3		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/4		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/5		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/6		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/7		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/8		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/9		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/10		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/11		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/12		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/13		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/14		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/15		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/16		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/17		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/18		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/19		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/20		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/21		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/22		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/23		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/24		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/25		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00
GE0/0/26		down	auto	disabled	disabled	disabled	0	0	0	0	0	00:00:00

4.1. Basic Setting

Choose Basic Setting, and the following page appears. There are "System Info", "General Setup", "IP Setup", "Port Setup", "Dhcp server", "DHCP-Relay" and "Stacking" configuration web pages.

4.1.1. System Info

Selecting "Basic Setting>System Information settings" in the navigation bar, you can view the basic information of System and configure the IP address and System name.

System information settings	
Product description	GTP-5271
bootrom version	1.6
Software version	GTP-5271 d18.12.27
Product serialNo	123456789
MAC address	00:e0:53:18:1a:86
IP address	192.168.1.1 Setting
Subnet mask	255.255.255.0
Default gateway	0.0.0.0
System startup time	0-Days 4-Hours 54-Minutes 26-Seconds
System application	running default application
Switch temperature	dev0: 54.0 degree Celsius, dev1: 57.9 degree Celsius
System name	GTP-5271 Setting
System location	
Web page timeout (in minute)	20

【Parameter Description】

Parameter	Description
Product description	Brief description of device type.
Software version	Show switch's current Software version.
MAC address	Show switch's physical address
IP Address	The management IP of Switch
Subnet Mask	Config the corresponding subnet mask of the IP address specified above. The default is 255.255.255.0.
Gateway	Specify a gateway address for the switch.
System name	System name
System Location	Specify the system location

【Instructions】

You can view and configure Running System status.

4.1.2. General Setup

Selecting “**Basic Setting>General Setup**” in the navigation bar, you can view the basic information of Switch, Such as System description and so on. You can also modify System name, System contact and System location.

General Setup	
System description	52-Port L3 Lite Managed Gigabit PoE Switch
System object ID	1.3.6.1.4.1.22426.1.3.68.2
System port quantity	208
System startup time	0-Days 4-Hours 56-Minutes 2-Seconds
System name	GTP-5271
System location	
System contact	admin
Product description	GTP-5271

Refresh Modify

【Parameter Description】

Parameter	Description
System name	System name
System Location	Specify the system location
System contact	Including company or related URL
Product description	Brief description of device type.

【Configuration example】

To configure general system information:

1. Click Basic Setting > General Setup.
2. Specify the system name as Switch, location as office, and contact information as admin for the system administrator.
3. Click Apply

System description	52-Port L3 Lite Managed Gigabit PoE Switch
System object ID	1.3.6.1.4.1.22426.1.3.68.2
System port quantity	208
System startup time	0-Days 0-Hours 17-Minutes 50-Seconds
System name	Switch
System location	Office
System contact	admin
Product description	GTP-5271

Refresh Modify

4.1.3. IP Setup

Selecting “Basic Setting>IP Setup” in the navigation bar, you can configure IP.

Basic Setting
Advanced Application
Management

System Info
General Setup
IP Setup
Port Setup
Dhcp server
DHCP-Relay
Stacking

Vlan Interface VlanInterfaceConf StaticRoute

Create:

Interface: vlan-interface
Vlan ID: 1

Add Cancel Clear

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	192.168.1.1	1	Up	<input type="checkbox"/>

Delete Cancel

4.1.3.1. Vlan interface

Selecting “Basic Setting>IP Setup>Vlan interface” in the navigation bar, you can configure Vlan interface.

Creat:

Interface	vlan-interface ▼
Vlan ID	1

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	192.168.1.1	1	Up	<input type="checkbox"/>

【Parameter Description】

Parameter	Description
Interface	Selecting the interface: vlan-interface Supervlan-interface
Vlan ID	You can specify the vlan ID
Name	The name of interface

4.1.3.2. Vlan interface Config

Selecting “**Basic Setting>IP Setup>Vlan interface**” in the navigation bar, you can configure Vlan interface.

Interface:

Interface name	VLAN-IF1 ▼
Vlan ID	1
Active	<input checked="" type="checkbox"/>

IP Add:

Ip Address	
Mask	
Override	<input type="checkbox"/>

IP List:

Index	Ip	Mask	Primary	Delete
1	192.168.1.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>

【Parameter Description】

Parameter	Description
Interface name	Name of interface
Vlan ID	You can specify the vlan ID
IP Address	User login in Switch using the IP Address
Override	You can override former original primary IP or not

【Configuration example】

To configure general system information:

1. Click Basic Setting > IP Setup >Vlan interface Config .
2. Specify the IP Address as 192.168.2.1.
3. Click Add.

Vlan Interface Config [VlanInterface](#) [StaticRoute](#)

Interface:

Interface name	VLAN-IF1 ▾
Vlan ID	1
Active	<input checked="" type="checkbox"/>

Apply Cancel

IP Add:

Ip Address	192.168.2.1
Mask	255.255.255.0
Override	<input checked="" type="checkbox"/>

Add Cancel Clear

IP List:

Index	Ip	Mask	Primary	Delete
1	192.168.1.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>

Modify Delete Cancel

4.1.3.3. StaticRoute

Selecting “**Basic Setting>IP Setup>StaticRoute**” in the navigation bar, you can configure StaticRoute.

Static Routing [VlanInterface](#) [VlanInterfaceConf](#)

Add:

Destination IP Address	0.0.0.0
IP Subnet Mask	0.0.0.0
Gateway IP Address	0.0.0.0

List:

Index	DestIp	Mask	Proto	Metric	Nexthop	Interface	Active	Delete
-------	--------	------	-------	--------	---------	-----------	--------	--------

【Parameter Description】

Parameter	Description
Destination IP Address	Setting destination IP Address of Static Routing.
IP Subnet Mask	Setting IP Subnet Mask.
Gateway IP Address	Setting Gateway IP Address.

【Configuration example】

To configure static routes:

1. Click Basic Setting > IP Setup >Static Route .
2. Enter the destination IP address, IP Subnet Mask and gateway IP address.
3. Click Add.

Static Routing [VlanInterface](#) [VlanInterfaceConf](#)

Add:

Destination IP Address	10.2.48.0
IP Subnet Mask	255.255.255.0
Gateway IP Address	10.2.48.1

To display static routes:

1. Click Basic Setting > IP Setup >Static Route.
2. Select Show from the Action List.

4.1.4. Port Setup

Selecting “**Basic Setting>Port Setup**” in the navigation bar, you can configure the related parameter of port.

Port basic settings Ethernet 1000M Port[1]

Port	Status	Link	Priority	Set speed	Mode	Actual speed	Port description (0-128 chars)
GE0/0/1	enable	down	0	auto	auto	unknown	
GE0/0/2	enable	down	0	auto	auto	unknown	
GE0/0/3	enable	down	0	auto	auto	unknown	
GE0/0/4	enable	down	0	auto	auto	unknown	
GE0/0/5	enable	down	0	auto	auto	unknown	
GE0/0/6	enable	down	0	auto	auto	unknown	
GE0/0/7	enable	down	0	auto	auto	unknown	
GE0/0/8	enable	down	0	auto	auto	unknown	
GE0/0/9	enable	down	0	auto	auto	unknown	
GE0/0/10	enable	down	0	auto	auto	unknown	
GE0/0/11	enable	down	0	auto	auto	unknown	
GE0/0/12	enable	down	0	auto	auto	unknown	
GE0/0/13	enable	down	0	auto	auto	unknown	
GE0/0/14	enable	down	0	auto	auto	unknown	
GE0/0/15	enable	down	0	auto	auto	unknown	
GE0/0/16	enable	down	0	auto	auto	unknown	
GE0/0/17	enable	down	0	auto	auto	unknown	

【Parameter Description】

Parameter	Description
Port	Port number
status	Choose whether to close link port
link	Status: Down up
priority	Set port priority, the range of 0-7
Set speed	Choose the following modes: auto full-1000 auto-100 auto-1000 Full-duplex: Ports operating in Full-duplex mode can send and receive packets concurrently. Half-duplex: Ports operating in Half-duplex mode can either send or receive packets at a given time. Auto: Auto-negotiation, ports operating in Auto-negotiation mode determine their duplex mode through auto-negotiation with peer ports. By default, Auto (Auto-negotiation) is enabled for the Speed/Duplex option.
Mode	Choose the following kinds: auto slave master
Actual speed	The actual speed of the port

Parameter	Description
Port description	The port is described

【 Configuration example 】

To configure static routes:

1. Click Basic Setting > Port Setup

2. Configure the related parameters for port 1, Status is “enable”, Priority is “1”, Set speed is “auto”, Mode is “auto”, Port description is “port 1”.

3. Click Modify.

Port basic settings **Ethernet 1000M Port[1]**

Port	Status	Link	Priority	Set speed	Mode	Actual speed	Port description (0-128 chars)
GE0/0/1	<input type="text" value="enable"/>	down	<input type="text" value="1"/>	<input type="text" value="auto"/>	<input type="text" value="auto"/>	unknown	<input type="text" value="port1"/>

4.1.5. Dhcp Server

Selecting “Basic Setting>Dhcp Server” in the navigation bar, you can configure the related parameter of port. This page allows you to enable the DHCP Server function, configure the included IP Address.

Basic Setting

Advanced Application

Management

System Info

General Setup

IP Setup

Port Setup

Dhcp server

DHCP-Relay

Stacking

DHCP server pool set [DHCP server group set](#)

ip pool			
name	<input type="text"/>	lease time	<input type="text" value="0"/> day <input type="text" value="0"/> hour <input type="text" value="0"/> minute
Gate Address	<input type="text"/>	Ip Mask	<input type="text"/>
First DNS	<input type="text"/>	Secondary DNS	<input type="text"/>

list of assignable address:

number	start address	end address	
0	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
1	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
4	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
5	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
6	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>
7	<input type="text"/>	<input type="text"/>	<input type="button" value="delete"/>

【 Configuration example 】

To configure IP addresses excluded for DHCP clients:

1. Click Basic Setting > Dhcp Server.

2. Select Configure Excluded Addresses from the Step list.

3. Enter an address range.

4. Click Add.

list of assignable address:

number	start address	end address	
0	192.168.1.100	192.168.1.200	delete
1			delete
2			delete
3			delete
4			delete
5			delete
6			delete
7			delete

4.1.6. Dhcp-Relay

Selecting “**Basic Setting>Dhcp-Relay**” in the navigation bar, you can turn on the DHCP relay function, Hidden DHCP Server. Set the source IP used. If L3 DHCP relay is enabled, and this switch sees a DHCP request broadcast, it inserts its own IP address into the request so that the DHCP server will know the subnet where the client is located. Then, the switch forwards the packet to the DHCP server. When the server receives the DHCP request, it allocates a free IP address for the DHCP client from its defined scope for the DHCP client’s subnet, and sends

Basic Setting

Advanced Application Management

- System Info
- General Setup
- IP Setup
- Port Setup
- Dhcp server
- DHCP-Relay**
- Stacking

DHCP-Relay Setting

DHCP-Relay Enable	<input checked="" type="radio"/> Close <input type="radio"/> Open
Hide DHCP Parameter	<input checked="" type="radio"/> Close <input type="radio"/> Open
Source IP Set	<input checked="" type="radio"/> ingress <input type="radio"/> egress

Port Table

Port	Relay Enable
*	<input type="checkbox"/>

4.1.7. Stacking

Selecting “**Basic Setting>Stacking**” in the navigation bar, you can view the stack interface information, neighbor interface information, start the stack function and set system priority. Before configuring the stack, we highly recommend you to prepare the configuration planning with a clear set of the role and function of each member device. Some configuration needs device reboot to take effect, so you are kindly recommended to configure the stack at first, next connect the devices physically after powering off them, then you can power them on and the devices will join the stack automatically. After stack is established, users can log in the stack system through any member devices to configure and manage it.

Basic Setting

Advanced Application Management

System Info

General Setup

IP Setup

Port Setup

Dhcp server

DHCP-Relay

Stacking

Stacking Status
[Configuration](#)

Slot	Priority	Status	MAC address	Role
*0	0	STATE_MASTER	00:e0:53:18:1a:86	master

StackingTopology : Chain

Slot No.	Stacking Channel 1		Stacking Channel 2	
	Neighbor	Speed	Neighbor	Speed
*0	-	-	-	-

【Parameter Description】

Parameter	Description
ip pool	ip pool ID
name	Set the name of ip pool
hire time	Set hire time
Gate Address	Set Gate Address
Ip Mask	Set Ip Mask
First DNS	Set First DNS
Secondary DNS	Set Secondary DNS
start address	The first one of the IP addresses that should not be assigned.
End Address	The last one of the IP addresses that should not be assigned.

4.1.7.1. Stacking Status

Selecting “**Basic Setting>IP Setup>Stacking Status**” in the navigation bar, you can view the stack interface information, neighbor interface information.

Stacking Status

[Configuration](#)

Slot	Priority	Status	MAC address	Role
*0	0	STATE_MASTER	00:e0:53:18:1a:86	master

StackingTopology : Chain

Slot No.	Stacking Channel 1		Stacking Channel 2	
	Neighbor	Speed	Neighbor	Speed
*0	-	-	-	-

【Parameter Description】

Parameter	Description
Slot	Each device in the system must manually specify an unrepeatabe ID number to unique identify
Status	Two different working modes:

Parameter	Description
	Single-machine mode: this mode is the same as the general switch, not to provide the stack function. Stack mode: this mode opens the stack function, can make up a stack system with other devices.
Priority	Each device in the system can be assigned a priority, devices with higher-priority more likely to be elected as main device.

4.1.7.2. Stacking Configuration

Selecting “**Basic Setting>IP Setup>Stacking Configuration**” in the navigation bar, you can open stack and set System Priority.

Stacking Configuration
[Stacking Status](#)

Active

priority and port :

System Priority

modify action

port number

(0-255)

-choice- ▼
-choice- ▼

 (device-id/slot/port)

Single Device Reset
--choice-- ▼

Slot ID :

Slot ID Freeze

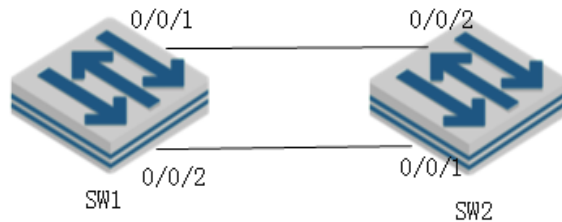
Slot	MAC Address	Priority	Slot ID After Reboot	Left Port After Reboot	Right Port After Reboot
0	00:e0:53:18:1a:86	0	0 ▼		

【Parameter Description】

Parameter	Description
Active	Select open or close stack
System Priority	Set system priority, the default is 0
Slot id Freeze	Freeze slot ID

【Configuration example】

As shown in the figure, configure SW1 as Master and SW2 as Slave.



SW1

- 1.Enable Stack function.
- 2.Configure device-id as 0.
- 3.Configure left port of SW1.
- 4.Configure System priority as 200.

SW2:

- 1.Enable Stack function.
- 2.Configure device-id as 0.
- 3.Configure left port of SW2.
- 4.Configure System priority as 100.

After restarting the two devices, connect two devices according to Figure.

4.2. Advanced Application

Choose Advanced Application, and the following page appears. There are "VLAN", "MAC Address Forwarding", "Spanning Tree Protocol", "ERPS Protocol", "EAPS Protocol", "Layer 2 Tunneling Protocol", "PPPOE IA", "Bandwidth Control", "Broadcast Storm Control", "Mirroring", "Link Aggregation", "Port Security", "PoE Settings", "Classifier", "Policy Rule", "Queuing Method", "Multicast", "IPv6 Multicast", "Dos attack protect", DHCP Snooping Setting, "SNTP Setting", "QinQ", "LLDP Protocol" and "AAA" configuration web pages.

- Basic Setting
- Advanced Application Management
- VLAN
- MAC Address Forwarding
- Spanning Tree Protocol
- ERPS Protocol
- EAPS Protocol
- Layer 2 Tunneling Protocol
- PPPOE IA
- Bandwidth Control
- Broadcast Storm Control
- Mirroring
- Link Aggregation
- Port Security
- POE Settings
- Classifier
- Policy Rule
- Queuing Method
- Multicast
- IPv6 Multicast
- Dos attack protect
- DHCP Snooping Setting
- SNTP Setting
- QinQ
- LLDP Protocol
- AAA

4.2.1. VLAN

Selecting “Advanced Application>VLAN” in the navigation bar, you can configure VLAN.

The screenshot shows the 'VLAN Status' configuration page. On the left is a navigation menu with 'VLAN' selected. The main area has three tabs: 'VLAN Status', 'VLAN Port Settings', and 'Static VLAN'. Below the tabs is a search bar for 'VLAN Search by VID'. The main content area displays 'The Number of VLAN: 1. Current Page: 1 of 1.' and a table of VLAN configurations.

Index	VID	Elapsed Time	Status
1	1	0:00:00	Static

VID	Port Number																								Elapsed Time	Status			
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48			50	52	
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0:00:00	Static

VID	Port Number																								Elapsed Time	Status			
	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47			49	51	

At the bottom, there are 'Change Pages' buttons for 'Previous' and 'Next'.

【Instructions】

The traditional Ethernet is a data network communication technology basing on CSMA/CD (Carrier Sense Multiple Access/Collision Detect) via shared communication medium. Through the traditional Ethernet, the overfull hosts in LAN will result in serious collision, flooding broadcasts, poor performance or even breakdown of the Internet. Though connecting the LANs through switches can avoid the serious collision, the flooding broadcasts cannot be prevented, which will occupy plenty of bandwidth resources, causing potential serious security problems.

A Virtual Local Area Network (VLAN) is a network topology configured according to a logical scheme rather than the physical layout. The VLAN technology is developed for switches to control broadcast in LANs. By creating VLANs in a physical LAN, you can divide the LAN into multiple logical LANs, each of which has a broadcast domain of its own. Hosts in the same

VLAN communicate with one another as if they are in a LAN. However, hosts in different VLANs cannot communicate with one another directly. Therefore, broadcast packets are limited in a VLAN. Hosts in the same VLAN communicate with one another via Ethernet whereas hosts in different VLANs communicate with one another through the Internet devices such as Router, the Layer3 switch, etc. The following figure illustrates a VLAN implementation.

4.2.1.1. VLAN Status

Selecting “**Advanced Application>VLAN>VLAN Status**”, in the navigation bar, you can view VLAN status.

The Number of VLAN: 1. Current Page: 1 of 1.

Index	VID	Elapsed Time	Status
1	1	0:00:00	Static

VID	Port Number																								Elapsed Time	Status		
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48			50	52
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0:00:00	Static
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
VID	Port Number																								Elapsed Time	Status		
1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51		

【Parameter Description】

Parameter	Description
VLAN Status	View all vlans configured in the device
VLAN Search by VID	Enter VID to view the specified VLAN

【Configuration example】

Such as: View the VLAN of VID as “1”.

The Number of VLAN: 1. Current Page: 1 of 1.

Index	VID	Elapsed Time	Status
1	1	0:00:00	Static

The Detailed Information of VID: 1.

VID	Port Number																								Elapsed Time	Status		
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48			50	52
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	0:00:00	Static
	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
VID	Port Number																								Elapsed Time	Status		
1	1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51		

4.2.1.2. VLAN Port Settings

Selecting “**Advanced Application>VLAN>VLAN Port Settings**”, in the navigation bar, you can set VLAN port.

VLAN Port Settings [VLAN Status](#)

Global GVRP

premit vlan

PORT ID

port forbidden vlan

[Show Garp Infrmation:](#)

Port	PVID	Acceptable Frame	Port Mode	Port GVRP	Ingress Check
*		All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ethernet 1000M Port					
GE0/0/1	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/2	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/3	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/4	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/5	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/6	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/7	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/8	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/9	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/10	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/11	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/12	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/13	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/14	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/15	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/16	1	All ▼	Hybrid ▼	<input type="checkbox"/>	<input checked="" type="checkbox"/>

【Parameter Description】

Parameter	Description
PVID	The PVID of the port can be modified, the default port PVID is "1"
Acceptable Frame	Choose the following kinds: All Tagged only Untagged only
Port Mode	Choose the following modes: Hybrid: The port can be either a tag member or untag member in a VLAN and can be a member port for multiple vlans. Trunk: The port can only be an tag member in a VLAN and can be a member port for multiple vlans Access: The port can only be a member of untag in VLAN and the port can only be in a VLAN.
Port GVRP	Select open or close GVRP, dynamic VLAN learning function, port mode must be Trunk mode
Ingress Check	Open port filtering function. If the port settings only receive the Tagged type of message, if the Ingress Check function is opened, the Untagged type of message will be discarded when the port receives the message of the

Parameter	Description
	untagged type of message, otherwise it can be forwarded. The default port filtering function opens.

【Instructions】

Hybrid port to packet:

Receives a packet, judge whether there is a VLAN information: if there is no play in port PVID, exchanged and forwarding, if have, whether the Hybrid port allows the VLAN data into: if can be forwarded, or discarded (untag on port configuration is not considered, untag configuration only work when to send it a message).

Hybrid port to send packet:

1. Determine the VLAN in this port attributes (disp interface can see the port to which VLAN untag, which VLAN tag).
2. If it is untag stripping VLAN information, send again, if the tag is sent directly.

【Configuration example】

1. Click Advanced Application > VLAN> VLAN Port Settings.
2. The PVID of port 1 is set to "1", the frame type is set to "All", the port mode is set to "Hybrid", and the port GVRP is not turned on and the entry inspection function is opened.
3. Click Apply.

GE0/0/1	1	All	Hybrid	<input type="checkbox"/>	<input checked="" type="checkbox"/>
---------	---	-----	--------	--------------------------	-------------------------------------

4.2.1.3. Static VLAN

Selecting "Advanced Application>Static VLAN" in the navigation bar, you can configure Static VLAN.

The screenshot displays the 'Static VLAN' configuration page. On the left, there's a 'Current static VLAN' dropdown menu showing '0001'. The main area features a table of port numbers from 2 to 52. Each port has a status indicator: 'U' for Untagged and 'T' for Tagged. Below the table, there are two input fields: 'VLAN List' (containing '1') and 'Name'. There are also 'Add', 'Delete', 'Modify', and 'Cancel' buttons. At the bottom left, it says 'Total 1 records'.

【Parameter Description】

Parameter	Description
VLAN List	VLAN Group ID
Name	VLAN Group name

【Configuration example】

To Add and delete VLAN members

1. Click Advanced Application > VLAN> Static VLAN.
2. Adding a new VLAN, VLAN Group ID 120 contains non-untag member port 1-4. Tag member port 5-8. The user can modify the port member by clicking on the white area below the port number.
3. Click Apply.

Static VLAN VLAN Status

Current static VLAN

VLAN

0001

Total 1 records

Port Number				[Click for changing or selecting]																					
2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
U	U	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
U	U	T	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51

Port Number>Select all: - [None] T [Tagged] U [Untagged]

VLAN List:

Name:

4.2.2. MAC Address Forwarding

Selecting "Advanced Application>MAC Address Forwarding" in the navigation bar, you can configure MAC Address Forwarding.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Spanning Tree Protocol

ERPS Protocol

EAPS Protocol

Layer 2 Tunneling Protocol

PPPOE IA

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

Port Security

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

QinQ

LLDP Protocol

AAA

MAC Address Forwarding

MAC Address: : : : : :

VID:

MAC Type: **Static Mac** ▼

Port (No Blackhole Mac):

Port Number [unknown source mac packet drop settings]

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51

Port Number[Apply all:]

Index	Active	MAC Address	VID	Port	Status	Delete
1	Yes	00:0e:c6:d6:21:5c	1	GE0/0/44	dynamic	<input type="button" value="Delete"/>
2	Yes	00:e0:53:18:1a:86	1	cpu	static	<input type="button" value="Delete"/>

【Parameter Description】

Parameter	Description
MAC Type	MAC Type: Static MAC Dynamic MAC Blackhole MAC Permanent MAC

【Instructions】

Blackhole MAC: If a PC's MAC address is configured on a switch to be a blackhole MAC, then the PC's package will be discarded by the switch and not forwarded to the network.

【Configuration example】

1. Click Advanced Application > MAC Address Forwarding.
2. MAC Address Forwarding

MAC Address Forwarding

MAC Address	00 : 01 : 33 : jt : dc : aq
VID	1
MAC Type	Static Mac ▼
Port (No Blackhole Mac)	8

3. Unknown source mac packet drop settings.

Port Number [unknown source mac packet drop settings]

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51

Port Number[Apply all:]

4. Click Modify.

4.2.3. Spanning Tree Protocol

Selecting “**Advanced Application>Spanning Tree Protocol**”, in the navigation bar, you can configure spanning tree protocol. STP (Spanning Tree Protocol), subject to IEEE 802.1D standard, is to disbranch a ring network in the Data Link layer in a local network. Devices running STP discover loops in the network and block ports by exchanging information, in that way, a ring network can be disbranched to form a tree-topological ring-free network to prevent packets from being duplicated and forwarded endlessly in the network.

Spanning Tree Protocol Status [Configuration](#) [STP/RSTP](#) [MSTP](#)

Spanning Tree Protocol: RSTP

Global Spanning Tree	Enable
Our Bridge ID	32768-00e0.5318.1a86
Root Bridge ID	32768-00e0.5318.1a86
Root Path Cost	0
Hello Time (second)	2
Max Age (second)	20
Forwarding Delay (second)	15
Topology Changed Times	3

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	200000	128	designatedPort	disabled
GE0/0/2	enable	200000	128	designatedPort	disabled
GE0/0/3	enable	200000	128	designatedPort	disabled
GE0/0/4	enable	200000	128	designatedPort	disabled
GE0/0/5	enable	200000	128	designatedPort	disabled
GE0/0/6	enable	200000	128	designatedPort	disabled
GE0/0/7	enable	200000	128	designatedPort	disabled
GE0/0/8	enable	200000	128	designatedPort	disabled
GE0/0/9	enable	200000	128	designatedPort	disabled
GE0/0/10	enable	200000	128	designatedPort	disabled
GE0/0/11	enable	200000	128	designatedPort	disabled
GE0/0/12	enable	200000	128	designatedPort	disabled
GE0/0/13	enable	200000	128	designatedPort	disabled
GE0/0/14	enable	200000	128	designatedPort	disabled

4.2.3.1. Spanning Tree Protocol Status

Selecting “**Advanced Application>Spanning Tree Protocol>Spanning Tree Protocol status**”; in the navigation bar, you can view spanning tree protocol status.

Spanning Tree Protocol: RSTP

Global Spanning Tree	Enable
Our Bridge ID	32768-00e0.5318.1a86
Root Bridge ID	32768-00e0.5318.1a86
Root Path Cost	0
Hello Time (second)	2
Max Age (second)	20
Forwarding Delay (second)	15
Topology Changed Times	3

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	200000	128	designatedPort	disabled
GE0/0/2	enable	200000	128	designatedPort	disabled
GE0/0/3	enable	200000	128	designatedPort	disabled
GE0/0/4	enable	200000	128	designatedPort	disabled
GE0/0/5	enable	200000	128	designatedPort	disabled
GE0/0/6	enable	200000	128	designatedPort	disabled
GE0/0/7	enable	200000	128	designatedPort	disabled
GE0/0/8	enable	200000	128	designatedPort	disabled
GE0/0/9	enable	200000	128	designatedPort	disabled
GE0/0/10	enable	200000	128	designatedPort	disabled
GE0/0/11	enable	200000	128	designatedPort	disabled
GE0/0/12	enable	200000	128	designatedPort	disabled
GE0/0/13	enable	200000	128	designatedPort	disabled
GE0/0/14	enable	200000	128	designatedPort	disabled

【Parameter Description】

Parameter	Description
Root Path Cost	Configure Root Path Cost
Hello time(second)	Switches sends bpdu in packet interval
Max age(second)	Ports are not yet received a message in the time, will initiate topology changes
Forwarding delay(second)	The state of the port switch time
Topology changed times	The number of topology changes

4.2.3.2. Spanning Tree Configuration

Selecting “**Advanced Application>Spanning Tree Protocol>Spanning Tree configuration**”, in the navigation bar, you can configure spanning tree.

Spanning Tree Configuration [Status](#)

Spanning Tree Mode

IEEE compatible Spanning Tree

Rapid Spanning Tree

Multiple Spanning Tree

Global Spanning Tree status

Enable

Disable

Apply Cancel

【Parameter Description】

Parameter	Description
Spanning Tree Mode	Spanning tree mode: IEEE Compatible Spanning Tree Rapid Spanning Tree Multiple Spanning Tree
Global Spanning Tree Status	Select open or close Global Spanning

【Configuration example】

Such as: Spanning Tree Mode as "Rapid Spanning Tree", open Global Spanning.

Spanning Tree Configuration [Status](#)

Spanning Tree Mode

IEEE compatible Spanning Tree

Rapid Spanning Tree

Multiple Spanning Tree

Global Spanning Tree status

Enable

Disable

Apply Cancel

4.2.3.3. Compatible/Rapid Spanning Tree Protocol

Selecting "Advanced Application>Spanning Tree Protocol>Compatible/Rapid Spanning Tree Protocol", in the navigation bar, you can configure Compatible/Rapid Spanning Tree Protocol.



Compatible/Rapid Spanning Tree Protocol

[Status](#)

Bridge Priority	32768 ▾	
Hello Time	2	Seconds
MAX Age	20	Seconds
Forwarding Delay	15	Seconds

Port	Active	Priority	Path Cost	Default Value
*	<input type="checkbox"/>			<input type="checkbox"/>
GE0/0/1	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/2	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/3	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/4	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/5	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/6	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/7	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/8	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/9	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/10	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/11	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/12	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/13	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/14	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/15	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/16	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>

【Parameter Description】

Parameter	Description
Bridge Priority	Set bridge priority, the default instance bridge priority for 32768
Hello Time	Switches sends bpdu in packet interval
Max Age	Ports are not yet received a message in the time, will initiate topology changes
Forwarding Delay	The state of the port switch time
Port Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

【Configuration example】

Such as:

1. Configure the bridge priority as 32768, the Hello Time is 2 seconds, the MAX Age is 20 seconds, and the Forwarding Delay is 15 seconds.

Compatible/Rapid Spanning Tree Protocol [Status](#)

Bridge Priority	32768 ▼
Hello Time	2 Seconds
MAX Age	20 Seconds
Forwarding Delay	15 Seconds

2. The priority of port 8 is 64, and the path cost is 200000.

GE0/0/8	<input checked="" type="checkbox"/>	64	200000	<input checked="" type="checkbox"/>
GE0/0/9	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/10	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/11	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/12	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/13	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/14	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>

4.2.3.4. Multiple Spanning Tree Protocol

Selecting “**Advanced Application>Spanning Tree Protocol>Multiple Spanning Tree Protocol**”, in the navigation bar, you can configure Multiple Spanning Tree Protocol.

Multiple Spanning Tree Protocol [Status](#)

Bridge:

Hello Time	2	seconds
MAX Age	20	seconds
Forwarding Delay	15	seconds
Maximum hops	20	
Configuration Name		
Revision Number	0	

Instance:

Instance	0
Bridge Priority	32768 ▼
VLAN Range	

Instance	Bridge Priority	VLAN Mapped
0	32768	1-4094
1	32768	
2	32768	
3	32768	
4	32768	
5	32768	
6	32768	
7	32768	
8	32768	

【Parameter Description】

Parameter	Description
Hello Time	Switches sends bpdu in packet interval
Max age	Ports are not yet received a message in the time, will initiate topology changes
Forwarding Delay	The state of the port switch time
Maximum Hops	Set the maximum number of hops that BPDUs can support in the spanning tree
Configuration Name	Fill in configuration name
Revision Number	Set revision number
Instance	Instance number
Bridge Priority	Priority setting bridge example, the default instance bridge priority for 32768
VLAN Range	Set VLAN range
Port Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

【Configuration example】

1. Bridge

Multiple Spanning Tree Protocol [Status](#)

Bridge:

Hello Time	<input type="text" value="2"/>	seconds
MAX Age	<input type="text" value="20"/>	seconds
Forwarding Delay	<input type="text" value="15"/>	seconds
Maximum hops	<input type="text" value="20"/>	
Configuration Name	<input type="text" value="1"/>	
Revision Number	<input type="text" value="0"/>	

2. Instance

Instance:

Instance	<input type="text" value="1"/>
Bridge Priority	<input type="text" value="32768"/>
VLAN Range	<input type="text" value="1-8"/>

3. The priority of port 8 is 64, and the path cost is 200000.

GE0/0/8	<input checked="" type="checkbox"/>	64	200000	<input checked="" type="checkbox"/>
GE0/0/9	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/10	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/11	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/12	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/13	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/14	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>

4.2.4. ERPS Protocol

Selecting “Advanced Application>ERPS Protocol”, in the navigation bar, you can configure ERPS protocol.

Basic Setting

Advanced Application Management

- VLAN
- MAC Address Forwarding
- Spanning Tree Protocol
- ERPS Protocol**
- EAPS Protocol
- Layer 2 Tunneling Protocol
- PPPOE IA
- Bandwidth Control
- Broadcast Storm Control
- Mirroring
- Link Aggregation
- Port Security
- POE Settings
- Classifier
- Policy Rule
- Queuing Method
- Multicast
- IPv6 Multicast
- Dos attack protect
- DHCP Snooping Setting
- SNTP Setting
- QinQ
- LLDP Protocol
- AAA

Ethernet Ring Protection Switching

Global ERPS status Enable Disable

Instance:

Instance	<input type="text" value="0"/>	<input type="button" value="Search"/>
Meg Level	<input type="text" value="0"/>	
Ring Id	<input type="text" value="1"/>	
Ring Level	<input type="radio"/> Master Ring <input checked="" type="radio"/> Sub Ring	
Control VLAN	<input type="text"/>	
Protected-instance List	<input type="text"/>	
Ring Port0	<input type="text"/>	Link Role <input type="text" value="common"/>
Ring Port1	<input type="text"/>	Link Role <input type="text" value="common"/>

Instance	Ring Active
*	<input type="checkbox"/>
0	<input type="checkbox"/>
1	<input type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>
10	<input type="checkbox"/>

【Parameter Description】

Parameter	Description
Global ERPS status	Select open or close ERPS
Instance	The range of 0-15, active instance.
Meg level	The range of 0-7
Ring Id	The range of 1-239
Ring Level	Master Ring and Sub Ring
Control VLAN	You must configure the VLAN before configuring the ERRP ring

Parameter	Description
Protected-instance List	Application of MST instance
Ring port1	Configurable ports are common, owner, neighbor, next-neighbor
Ring port2	Configurable ports are common, owner, neighbor, next-neighbor

4.2.5. EAPS Protocol

Selecting “**Advanced Application>EAPS Protocol**”, in the navigation bar, you can configure EAPS protocol.

Basic Setting
Advanced Application
Management

Ethernet Automatic Protection Switching Domain

EAPS:

Active

Apply Cancel

Domain:

Domain ID	0	
Hello Time	1	seconds
Fail Timer	6	seconds
Major Fault	5	seconds
Pre Forward	6	seconds
Pre Up	0	seconds
Control VLAN		
Work Mode	standard	
Topo Collect		<input type="checkbox"/>

Add Cancel Clear

Domain ID	Control VLAN	Work Mode	Topo Collect	Ring List	Delete

Delete Cancel

4.2.5.1. Ethernet Automatic Protection Switching

Selecting “**Advanced Application>EAPS Protocol>Ethernet automatic protection switching**”, in the navigation bar, you can configure Ethernet automatic protection switching.

EAPS:

Active	<input type="checkbox"/>
Hello Time	1 seconds
Fail Timer	6 seconds
Major Fault	5 seconds
Pre Forward	6 seconds
Pre Up	0 seconds

Apply Cancel

Domain:

Domain ID	0
Control VLAN	
Work Mode	standard
Topo Collect	<input type="checkbox"/>

Add Cancel Clear

【Parameter Description】

Parameter	Description
Active	Select open or close EAPS
Hello time	Switches sends bpdv in packet interval
Fail Timer	Configure the information timeout
Major Fault	The Major Fault timer will be automatically updated by the system
Pre Forward	The Pre forward timer will be automatically updated by the system
Pre Up	Loop recovery wait time
Domain ID	You need to specify the Domain ID when creating the EAPS Domain
Control VLAN	You must configure the VLAN before configuring the EAPS Ring
Work mode	Work mode: standard huawei eips-subring
Topo Collect	Select open or close Topo Collect

【Configuration example】

1.EAPS

EAPS:

Active	<input checked="" type="checkbox"/>	
Hello Time	1	seconds
Fail Timer	6	seconds
Major Fault	5	seconds
Pre Forward	6	seconds
Pre Up	0	seconds

2.Domain

Domain:

Domain ID	0
Control VLAN	5
Work Mode	huawei
Topo Collect	<input checked="" type="checkbox"/>

4.2.5.2. EAPS Domain

Selecting “**Advanced Application>EAPS Protocol>EAPS Domain**”, in the navigation bar, you can configure EAPS Domain.

Domain:

Domain ID	0
Control VLAN	5 (sub: 6)
Work Mode	standard
Topo Collect	<input checked="" type="checkbox"/>

Ring:

Active	<input type="checkbox"/>
Ring ID	0
Query Solicit	<input checked="" type="checkbox"/>
Bridge Role	master
Primary Port	
Secondary Port	
Level	0

Ring ID	Active	Role	Level	Stm	Query Solicit	Primary/Common Port: state	Secondary/Edge Port: state	Delete
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【Parameter Description】

Parameter	Description
Domain ID	Select Domain ID

Parameter	Description
Control VLAN	You must configure the VLAN before configuring the EAPS Ring
Work mode	Work mode: standard huawei eips-subring
Topo Collect	Select open or close Topo Collect
Active	Select open or close Ring
Ring ID	Select ring ID
Query Solicit	Select open or close Query Solicit
Bridge Role	Bridge Role: master transit edge assistant-edge
Level	Level: 0, 1

4.2.6. Layer 2 Protocol Tunnel

Selecting “**Advanced Application>Layer 2 Protocol Tunnel**”, in the navigation bar, you can configure the specified protocol message that enters the port to perform a tunnel operation.

Basic Setting

Advanced Application Management

- VLAN
- MAC Address Forwarding
- Spanning Tree Protocol
- ERPS Protocol
- EAPS Protocol
- Layer 2 Tunneling Protocol**
- PPPOE IA
- Bandwidth Control
- Broadcast Storm Control
- Mirroring
- Link Aggregation
- Port Security
- POE Settings
- Classifier
- Policy Rule
- Queuing Method
- Multicast
- IPv6 Multicast
- Dos attack protect
- DHCP Snooping Setting
- SNTP Setting
- QinQ
- LLDP Protocol
- AAA

Layer 2 Protocol Tunnel

Port	Point to Point					
	CDP	STP	VTP	PAGP	LACP	UDLD
*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/11	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/13	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/17	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/18	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/22	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/23	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
GE0/0/25	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4.2.7. PPPOE IA

Selecting “**Advanced Application>PPPOE IA**”, in the navigation bar, you can configure PPPoE IA.

Basic Setting
Advanced Application
Management

VLAN
MAC Address Forwarding
Spanning Tree Protocol
ERPS Protocol
EAPS Protocol
Layer 2 Tunneling Protocol
PPPOE IA
Bandwidth Control
Broadcast Storm Control

Intermediate Agent Port

delimiter space
format binary
Type standard

Apply Cancel

4.2.7.1. Intermediate Agent

Selecting “**Advanced Application>PPPoE IA>Intermediate Agent**”, in the navigation bar, you can configure Intermediate Agent.

Intermediate Agent Port

delimiter space
format binary
Type standard

Apply Cancel

【Parameter Description】

Parameter	Description
delimiter	Configure delimiter, choose “space”, “.”, “.”, “#”, “/”
format	Configure format, choose binary, ascii
type	Configure the message type, choose standard, Huawei, self-defined

4.2.7.2. Port

Selecting “**Advanced Application>PPPoE IA>Port**”, in the navigation bar, you can configure port.

Port	Active	Server Trusted State	Drop	strategy	Circuit-id
*	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/1	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/2	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/3	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/4	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/5	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/6	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/7	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/8	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/9	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/10	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/11	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/12	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/13	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/14	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/15	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/16	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/17	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/18	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/19	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/20	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/21	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	
GE0/0/22	<input type="checkbox"/>	Untrusted ▼	None ▼	Replace ▼	

【Parameter Description】

Parameter	Description
active	Select open or close port PPPOE IA
Server Trusted State	Configure the upstream port to be Trusted or Untrusted
Drop	Configure the pppoe padi/pado packets received by the port
Strategy	Configuration options to handle policies, choose Drop, Keep, Replace

4.2.8. Bandwidth Control

Selecting “**Advanced Application>Bandwidth Control**”, in the navigation bar, you can configure Bandwidth Control.

Basic Setting Advanced Application Management	Bandwidth Control				
	Port	Ingress Rate(unit:64kbps)		Egress Rate(unit:64kbps)	
VLAN	*		Kbps		Kbps
MAC Address Forwarding	GE0/0/1	0	Kbps	0	Kbps
Spanning Tree Protocol	GE0/0/2	0	Kbps	0	Kbps
ERPS Protocol	GE0/0/3	0	Kbps	0	Kbps
EAPS Protocol	GE0/0/4	0	Kbps	0	Kbps
Layer 2 Tunneling Protocol	GE0/0/5	0	Kbps	0	Kbps
PPPOE IA	GE0/0/6	0	Kbps	0	Kbps
Bandwidth Control	GE0/0/7	0	Kbps	0	Kbps
Broadcast Storm Control	GE0/0/8	0	Kbps	0	Kbps
Mirroring	GE0/0/9	0	Kbps	0	Kbps
Link Aggregation	GE0/0/10	0	Kbps	0	Kbps
Port Security	GE0/0/11	0	Kbps	0	Kbps
POE Settings	GE0/0/12	0	Kbps	0	Kbps
Classifier	GE0/0/13	0	Kbps	0	Kbps
Policy Rule	GE0/0/14	0	Kbps	0	Kbps
Queueing Method	GE0/0/15	0	Kbps	0	Kbps
Multicast	GE0/0/16	0	Kbps	0	Kbps
IPv6 Multicast	GE0/0/17	0	Kbps	0	Kbps
Dos attack protect	GE0/0/18	0	Kbps	0	Kbps
DHCP Snooping Setting	GE0/0/19	0	Kbps	0	Kbps
SNTP Setting	GE0/0/20	0	Kbps	0	Kbps
QinQ	GE0/0/21	0	Kbps	0	Kbps
LLDP Protocol	GE0/0/22	0	Kbps	0	Kbps
AAA	GE0/0/23	0	Kbps	0	Kbps
	GE0/0/24	0	Kbps	0	Kbps

【Instructions】

1 Mbit/s = 1000 Kbit/s = 1000 / 8 KB/s = 125 KB/s. That is, the theoretical rate of 1M bandwidth is 125 KB/s.

【Configuration example】

To configure bandwidth control of port8.

1. Click Basic Setting > Bandwidth Control.
2. Configure port-8 Ingress Rate is 64kbps, Egress Rate is 128kbps.

GE0/0/8	64	Kbps	128	Kbps
GE0/0/9	0	Kbps	0	Kbps
GE0/0/10	0	Kbps	0	Kbps

3. Click Apply.

4.2.9. Broadcast Storm Control

Selecting “**Advanced Application>Broadcast Storm Control**”; in the navigation bar, you can configure Broadcast Storm Control.

Basic Setting
Advanced Application Management

Broadcast Storm Control

storm-supprssion mode:

Port	Broadcast(unit:64pps)		Multicast(unit:64pps)		Unicast(unit:64pps)	
*		pps		pps		pps
GE0/0/1	0	pps	0	pps	0	pps
GE0/0/2	0	pps	0	pps	0	pps
GE0/0/3	0	pps	0	pps	0	pps
GE0/0/4	0	pps	0	pps	0	pps
GE0/0/5	0	pps	0	pps	0	pps
GE0/0/6	0	pps	0	pps	0	pps
GE0/0/7	0	pps	0	pps	0	pps
GE0/0/8	0	pps	0	pps	0	pps
GE0/0/9	0	pps	0	pps	0	pps
GE0/0/10	0	pps	0	pps	0	pps
GE0/0/11	0	pps	0	pps	0	pps
GE0/0/12	0	pps	0	pps	0	pps
GE0/0/13	0	pps	0	pps	0	pps
GE0/0/14	0	pps	0	pps	0	pps
GE0/0/15	0	pps	0	pps	0	pps
GE0/0/16	0	pps	0	pps	0	pps
GE0/0/17	0	pps	0	pps	0	pps
GE0/0/18	0	pps	0	pps	0	pps
GE0/0/19	0	pps	0	pps	0	pps

【Parameter Description】

Parameter	Description
Broadcast	Broadcast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)
Multicast	Multicast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)
Unicast	Unicast rate limitation(the range of: 64-32000000, unit: pps, you must enter multiple of 64, default to 49984)

【Instructions】

1 Mbit/s = 1000 Kbit/s = 1000 / 8 KB/s = 125 KB/s. That is, the theoretical rate of 1M bandwidth is 125 KB/s.

【Configuration example】

To configure broadcast storm control of port1.

- 1.Click Basic Setting > Broadcast Storm Control.
- 2.Set Port1 broadcast as 6400 pps, multicast as 3200 pps, unicast as 3200 pps.
- 3.Click Apply.

Port	Broadcast(unit:64pps)		Multicast(unit:64pps)		Unicast(unit:64pps)	
*		pps		pps		pps
GE0/0/1	6400	pps	3200	pps	3200	pps
GE0/0/2	0	pps	0	pps	0	pps

4.2.10. Mirroring

Selecting “Advanced Application>Mirroring”, in the navigation bar, you can configure mirroring.

The screenshot shows the configuration page for Mirroring. The 'Active' checkbox is checked. The 'Monitor Port' is set to 8. The table below shows the configuration for various ports:

Port	Mirrored	Direction
*	<input type="checkbox"/>	Ingress ▼
GE0/0/1	<input type="checkbox"/>	Ingress ▼
GE0/0/2	<input type="checkbox"/>	Ingress ▼
GE0/0/3	<input type="checkbox"/>	Ingress ▼
GE0/0/4	<input type="checkbox"/>	Ingress ▼
GE0/0/5	<input type="checkbox"/>	Ingress ▼
GE0/0/6	<input type="checkbox"/>	Ingress ▼
GE0/0/7	<input checked="" type="checkbox"/>	Ingress ▼
GE0/0/8	<input type="checkbox"/>	Ingress ▼
GE0/0/9	<input type="checkbox"/>	Ingress ▼
GE0/0/10	<input type="checkbox"/>	Ingress ▼
GE0/0/11	<input type="checkbox"/>	Ingress ▼
GE0/0/12	<input type="checkbox"/>	Ingress ▼
GE0/0/13	<input type="checkbox"/>	Ingress ▼
GE0/0/14	<input type="checkbox"/>	Ingress ▼
GE0/0/15	<input type="checkbox"/>	Ingress ▼
GE0/0/16	<input type="checkbox"/>	Ingress ▼
GE0/0/17	<input type="checkbox"/>	Ingress ▼
GE0/0/18	<input type="checkbox"/>	Ingress ▼
GE0/0/19	<input type="checkbox"/>	Ingress ▼
GE0/0/20	<input type="checkbox"/>	Ingress ▼
GE0/0/21	<input type="checkbox"/>	Ingress ▼
GE0/0/22	<input type="checkbox"/>	Ingress ▼

【Parameter Description】

Parameter	Description
Active	Select open or close Mirroring
Monitor Port	Set up the monitoring port and forward the flow data of the source port to the message analyzer to analyze the message and then forward to the monitoring port
Mirrored	Check the box to configure the mirror source port
Direction	Configure the direction of the mirror message, choose: Ingress, Egress, Both

【Configuration example】

1. Click Advanced Application > Mirroring.
2. Open mirroring, configure monitoring port is port 8, the source port is port 7, and the mirror message is in both direction.
3. Click Apply.

Mirroring

Active

Monitor Port

Port	Mirrored	Direction
*	<input type="checkbox"/>	Ingress ▼
GE0/0/1	<input type="checkbox"/>	Ingress ▼
GE0/0/2	<input type="checkbox"/>	Ingress ▼
GE0/0/3	<input type="checkbox"/>	Ingress ▼
GE0/0/4	<input type="checkbox"/>	Ingress ▼
GE0/0/5	<input type="checkbox"/>	Ingress ▼
GE0/0/6	<input type="checkbox"/>	Ingress ▼
GE0/0/7	<input checked="" type="checkbox"/>	Both ▼
GE0/0/8	<input type="checkbox"/>	Ingress ▼
GE0/0/9	<input type="checkbox"/>	Ingress ▼

4.2.11. Link Aggregation

Selecting “**Advanced Application>Link Aggregation**”, in the navigation bar, you can configure link aggregation. With the LAG (Link Aggregation Group) function, you can aggregate multiple physical ports into a logical interface to increase link bandwidth and configure the backup ports to enhance the connection reliability. You can configure LAG in two ways:

- Static LAG: The member ports are manually added to the LAG.
- LACP (Link Aggregation Control Protocol): The switch uses LACP to implement dynamic link aggregation and disaggregation by exchanging LACP packets with its partner. LACP extends the flexibility of the LAG configuration.

Basic Setting	Link Aggregation Status	Link Aggregation Setting			
Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status
T1	-	-	-	-	-
T2	-	-	-	-	-
T3	-	-	-	-	-
T4	-	-	-	-	-
T5	-	-	-	-	-
T6	-	-	-	-	-
T7	-	-	-	-	-
T8	-	-	-	-	-
T9	-	-	-	-	-
T10	-	-	-	-	-
T11	-	-	-	-	-
T12	-	-	-	-	-
T13	-	-	-	-	-
T14	-	-	-	-	-
T15	-	-	-	-	-
T16	-	-	-	-	-
T17	-	-	-	-	-
T18	-	-	-	-	-
T19	-	-	-	-	-
T20	-	-	-	-	-
T21	-	-	-	-	-
T22	-	-	-	-	-
T23	-	-	-	-	-
T24	-	-	-	-	-
T25	-	-	-	-	-
T26	-	-	-	-	-
T27	-	-	-	-	-
T28	-	-	-	-	-
T29	-	-	-	-	-
T30	-	-	-	-	-

4.2.11.1. Link Aggregation status

Selecting “**Advanced Application>Link Aggregation>Link Aggregation Status**”, in the navigation bar, you can view link aggregation status, you can view Group ID, Enabled Ports, Synchronized Ports, Aggregator ID, Criteria, Status.

Link Aggregation Status		Link Aggregation Setting				
Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status	
T1	-	-	-	-	-	
T2	-	-	-	-	-	
T3	-	-	-	-	-	
T4	-	-	-	-	-	
T5	-	-	-	-	-	
T6	-	-	-	-	-	
T7	-	-	-	-	-	

4.2.11.2. Link Aggregation Setting

Selecting “**Advanced Application>Link Aggregation>Link Aggregation Setting**”, in the navigation bar, you can set Link Aggregation.

Link Aggregation Setting		Status LACP	
Port	Group ID	Port LACP Mode	
GE0/0/1	none ▼	active ▼	
GE0/0/2	none ▼	active ▼	
GE0/0/3	none ▼	active ▼	
GE0/0/4	none ▼	active ▼	
GE0/0/5	none ▼	active ▼	
GE0/0/6	none ▼	active ▼	
GE0/0/7	none ▼	active ▼	
GE0/0/8	none ▼	active ▼	
GE0/0/9	none ▼	active ▼	
GE0/0/10	none ▼	active ▼	
GE0/0/11	none ▼	active ▼	
GE0/0/12	none ▼	active ▼	
GE0/0/13	none ▼	active ▼	
GE0/0/14	none ▼	active ▼	
GE0/0/15	none ▼	active ▼	
GE0/0/16	none ▼	active ▼	
GE0/0/17	none ▼	active ▼	
GE0/0/18	none ▼	active ▼	
GE0/0/19	none ▼	active ▼	
GE0/0/20	none ▼	active ▼	
GE0/0/21	none ▼	active ▼	
GE0/0/22	none ▼	active ▼	
GE0/0/23	none ▼	active ▼	
GE0/0/24	none ▼	active ▼	

【Parameter Description】

Parameter	Description
Group ID	Add the port to the specified Aggregation Group ID
Port LACP mode	Configure port aggregation(static/active/passive)
Criteria	Configure the Aggregation Group load balancing (src-mac/dst-mac/src-dst-mac/src-ip/dst-ip/src-dst-ip)

4.2.11.3. Link Aggregation Control Protocol

Selecting “**Advanced Application>Link Aggregation>Link Aggregation Control Protocol**”, in the navigation bar, you can configure Link Aggregation Control Protocol.

Link Aggregation Control Protocol
[Link Aggregation Setting](#)

System Priority	32768
-----------------	-------

Group ID	Active	Eth-trunk Mode	Load-balance Mode
T1	<input type="checkbox"/>	static ▼	none ▼
T2	<input type="checkbox"/>	static ▼	none ▼
T3	<input type="checkbox"/>	static ▼	none ▼
T4	<input type="checkbox"/>	static ▼	none ▼
T5	<input type="checkbox"/>	static ▼	none ▼
T6	<input type="checkbox"/>	static ▼	none ▼
T7	<input type="checkbox"/>	static ▼	none ▼
T8	<input type="checkbox"/>	static ▼	none ▼
T9	<input type="checkbox"/>	static ▼	none ▼
T10	<input type="checkbox"/>	static ▼	none ▼
T11	<input type="checkbox"/>	static ▼	none ▼
T12	<input type="checkbox"/>	static ▼	none ▼
T13	<input type="checkbox"/>	static ▼	none ▼
T14	<input type="checkbox"/>	static ▼	none ▼
T15	<input type="checkbox"/>	static ▼	none ▼
T16	<input type="checkbox"/>	static ▼	none ▼
T17	<input type="checkbox"/>	static ▼	none ▼
T18	<input type="checkbox"/>	static ▼	none ▼
T19	<input type="checkbox"/>	static ▼	none ▼
T20	<input type="checkbox"/>	static ▼	none ▼
T21	<input type="checkbox"/>	static ▼	none ▼
T22	<input type="checkbox"/>	static ▼	none ▼
T23	<input type="checkbox"/>	static ▼	none ▼

【Parameter Description】

Parameter	Description
System priority	Aggregation group system priority, the default is

	32768(the range of 1-65535)
--	------------------------------

4.2.12. Port Security

Selecting “Advanced Application>Port Security”, , you can configure port address learn control.

Basic Setting

Advanced Application

Management

VLAN

MAC Address Forwarding

Spanning Tree Protocol

ERPS Protocol

EAPS Protocol

Layer 2 Tunneling Protocol

PPPOE IA

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

Port Security

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

QinQ

LLDP Protocol

AAA

Port Security

Mac Age Time:

Age-Enable Age-Time(unit:second)

Address Learn Global Control:

Global	Max Mac Limit Number	Users Number
Switch All	16383	1

Address Learn Port Control:

Port	Address Learning	Max Mac Limit Number	Users Number
*	<input checked="" type="checkbox"/>		
GE0/0/1	<input checked="" type="checkbox"/>	16383	0
GE0/0/2	<input checked="" type="checkbox"/>	16383	0
GE0/0/3	<input checked="" type="checkbox"/>	16383	0
GE0/0/4	<input checked="" type="checkbox"/>	16383	0
GE0/0/5	<input checked="" type="checkbox"/>	16383	0
GE0/0/6	<input checked="" type="checkbox"/>	16383	0
GE0/0/7	<input checked="" type="checkbox"/>	16383	0
GE0/0/8	<input checked="" type="checkbox"/>	16383	0
GE0/0/9	<input checked="" type="checkbox"/>	16383	0
GE0/0/10	<input checked="" type="checkbox"/>	16383	0
GE0/0/11	<input checked="" type="checkbox"/>	16383	0
GE0/0/12	<input checked="" type="checkbox"/>	16383	0
GE0/0/13	<input checked="" type="checkbox"/>	16383	0

【Parameter Description】

Parameter	Description
Age-Enable	Open age-enable
Age-Time	Set Age Time(the range of 10-1000000, unit: second)
Max Mac Limit Number (Global)	Set the global Max MAC Limit Number(0-16384)
Address Learning	The MAC address learning function of port enables the power switch (the default port MAC learning function opens)
Max Mac Limit Number (Port)	Set the port Max MAC Limit Number(0-16384)

4.2.13. POE Settings

Selecting “Advanced Application>POE Settings”, you can configure POE.

The screenshot shows the 'POE Settings' configuration page. On the left, a navigation menu lists various settings, with 'POE Settings' circled in red. The main configuration area contains a table with the following data:

power supply	internal power supply
power limit (1-400)	380 W
power consumption	0W

Below the table are 'Apply' and 'Cancel' buttons.

4.2.13.1. POE Settings

Selecting “Advanced Application>POE Settings”, you can configure POE.

This screenshot is identical to the one above, showing the 'POE Settings' configuration page with the same table and buttons.

【Parameter Description】

Parameter	Description
power limit	The power of switch POE can be limited

【Configuration example】

Such as: set power limit is 360 W.

POE Settings POE Port Settings

power supply	internal power supply
power limit (1-400)	360 W
power consumption	0W

Apply **Cancel**

4.2.13.2. POE Port Settings

Selecting “**Advanced Application>POE Port Settings**”, in the navigation bar, you can configure POE Port.

POE Port Settings POE Settings

Port Number [\[Click for selecting\]](#)

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	-	-
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31	33	35	37	39	41	43	45	47	

Port Numberpoe

POE Port Settings Ethernet 1000M Port[1]

Port No.	Enable	Standard	Priority	Class	Power Limit(1-32):W	Power Consumption:W	Voltage:V	Status
GE0/0/1	enable ▼	ieee802.3at ▼	low ▼	0	30	0	0.0	status: Port is off - Detection is in process

Refresh **Modify**

Show all ports information (Note: It may take some time to display all ports information, please be patient.)

【Parameter Description】

Parameter	Description
Enable	Turn the port POE power on and off and the default is open
Standard	Configure ieee802.3af, ieee802.3at mode, default to ieee802.3at
Priority	Configure port Priority low, critical, high, the default priority is low
Power limit	The power of switch POE can be limited

4.2.14. Classifier

Selecting “**Advanced Application>Classifier**”, in the navigation bar, you can configure Classifier.

Basic Setting
Advanced Application Management

VLAN
MAC Address Forwarding
Spanning Tree Protocol
ERPS Protocol
EAPS Protocol
Layer 2 Tunneling Protocol
PPPOE IA
Bandwidth Control
Broadcast Storm Control
Mirroring
Link Aggregation
Port Security
Port Security
POE Settings
Classifier
Policy Rule
Queueing Method
Multicast
IPv6 Multicast
Dos attack protect
DHCP Snooping Setting
SNTP Setting
QinQ
LLDP Protocol
AAA

Classifier

Type: IP
Action: Deny
Name:
Subitem: 0
DSCP: Any be
 All Establish Only
 Others (Dec)
Source IP Address: 0.0.0.0 /
Destination IP Address: 0.0.0.0 /

Apply Cancel Clear

Index	Active	Name	Subitem	Rule	Delete

Delete Cancel

【Parameter Description】

Parameter	Description
Active	Active Classifier

4.2.15. Policy Rule

Selecting “Advanced Application>Policy Rule”, in the navigation bar, you can configure Policy Rule.

Basic Setting
Advanced Application Management

VLAN
MAC Address Forwarding
Spanning Tree Protocol
ERPS Protocol
EAPS Protocol
Layer 2 Tunneling Protocol
PPPOE IA
Bandwidth Control
Broadcast Storm Control
Mirroring
Link Aggregation
Port Security
Port Security
POE Settings
Classifier
Policy Rule
Queueing Method
Multicast
IPv6 Multicast
Dos attack protect
DHCP Snooping Setting
SNTP Setting
QinQ
LLDP Protocol
AAA

Policy

Active:
Classifier(s): Ip-group NULL Link-group NULL
Priority: Enable 0
DSCP: Enable be
Egress Port: Enable CPU
Rate limit: Enable Kbps <64-1048512>

Add Cancel Clear

Index	Active	Type	Classifier(s)	Delete

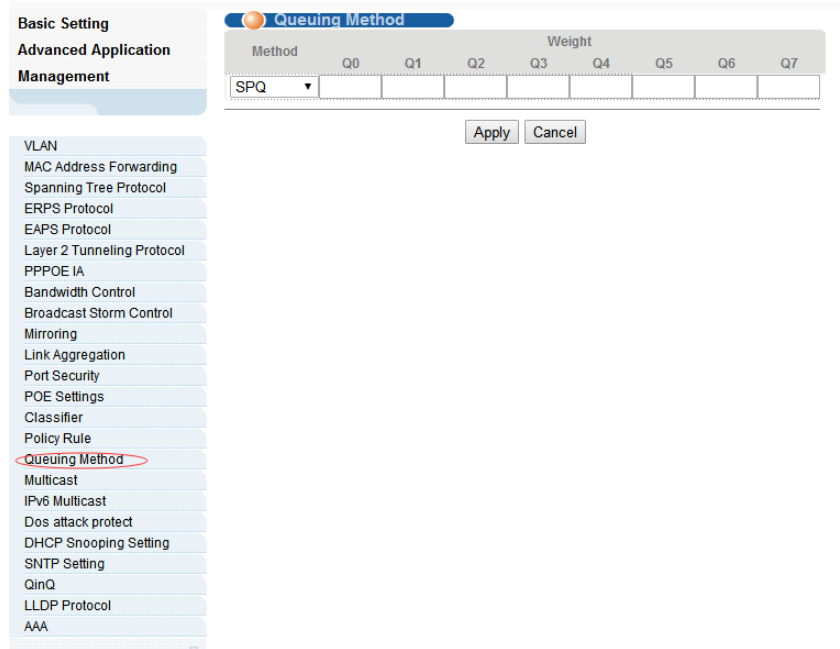
Delete Cancel

【Parameter Description】

Parameter	Description
Active	Active Classifier

4.2.16. Queuing Method

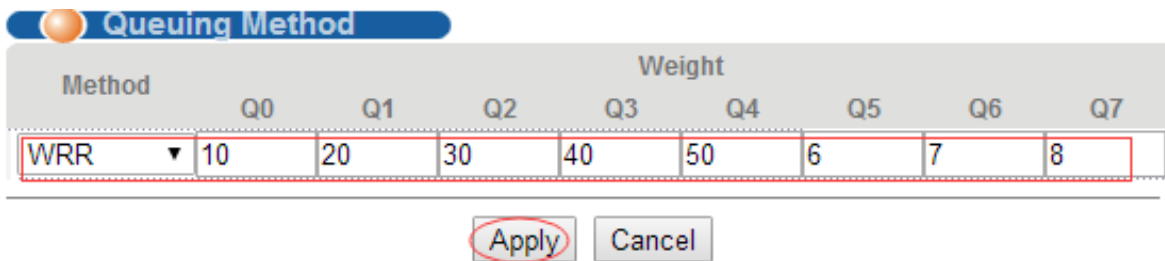
Selecting “Advanced Application>Queuing Method”, in the navigation bar, you can configure queuing method.



【Parameter Description】

Parameter	Description
Method	Five method: SPQ,WRR,SP+WRR,WFQ,SP+WFQ

【Configuration Example】



4.2.17. Multicast

Selecting “Advanced Application>Multicast”, in the navigation bar, you can configure Multicast.

The screenshot shows a network management interface. On the left is a navigation menu with the following items: Basic Setting, Advanced Application Management, VLAN, MAC Address Forwarding, Spanning Tree Protocol, ERPS Protocol, EAPS Protocol, Layer 2 Tunneling Protocol, PPPOE IA, Bandwidth Control, Broadcast Storm Control, Mirroring, Link Aggregation, Port Security, POE Settings, Classifier, Policy Rule, Queuing Method, **Multicast** (circled in red), IPv6 Multicast, Dos attack protect, DHCP Snooping Setting, SNTP Setting, QinQ, LLDP Protocol, and AAA. The main content area is titled 'Multicast Status' and has a 'Multicast Setting' link. Below the title is a table with the following columns: Index, VID, Port, and Multicast Group.

4.2.17.1. Multicast Status

Selecting “**Advanced Application>Multicast>Multicast Status**”, in the navigation bar, you can view all multicast. This includes the static configuration and the multicast that is learned through the IGMP-Snooping protocol.

This screenshot is identical to the one above, showing the 'Multicast Status' page in the network management interface. The 'Multicast' menu item is highlighted in the sidebar, and the table with columns 'Index', 'VID', 'Port', and 'Multicast Group' is visible in the main content area.

4.2.17.2. Multicast Settings

Selecting “**Advanced Application>Multicast>Multicast Settings**”, in the navigation bar, you can set multicast.

IGMP Snooping:

Active	<input type="checkbox"/>
Querier	<input type="checkbox"/>
Host Timeout	300 seconds
IGMP Route Port Forward	<input type="checkbox"/>

Port Information:

Port	Max Group Limit	Fast Leave	Multicast Vlan	IGMP Filtering Profile
*		<input type="checkbox"/>		
GE0/0/1	1020	<input type="checkbox"/>	0	
GE0/0/2	1020	<input type="checkbox"/>	0	
GE0/0/3	1020	<input type="checkbox"/>	0	
GE0/0/4	1020	<input type="checkbox"/>	0	
GE0/0/5	1020	<input type="checkbox"/>	0	
GE0/0/6	1020	<input type="checkbox"/>	0	
GE0/0/7	1020	<input type="checkbox"/>	0	
GE0/0/8	1020	<input type="checkbox"/>	0	
GE0/0/9	1020	<input type="checkbox"/>	0	
GE0/0/10	1020	<input type="checkbox"/>	0	
GE0/0/11	1020	<input type="checkbox"/>	0	
GE0/0/12	1020	<input type="checkbox"/>	0	
GE0/0/13	1020	<input type="checkbox"/>	0	
GE0/0/14	1020	<input type="checkbox"/>	0	
GE0/0/15	1020	<input type="checkbox"/>	0	
GE0/0/16	1020	<input type="checkbox"/>	0	
GE0/0/17	1020	<input type="checkbox"/>	0	

【Parameter Description】

Parameter	Description
Active	Open IGMP-snooping
Querier	Open IGMP-snooping timed query function
Host Timeout	Configure the dynamic group sowing time (default 300s)
IGMP Route Port Forward	Open IGMP Route Port Forward
Max Group Limit	Max learning group of configuration port (default 1020)
Fast Leave	Open port quick exit function (i.e., when the port receives the IGMP and leaves the message, immediately remove the port from the reshuffle group)
Multicast Vlan	The configuration group multicast the default VLAN
IGMP Filtering Profile	The configuration port refers to the multicast preview, which can only be learned to the group broadcast group that is allowed in the group broadcast preview, and cannot be learned to the multicast group which is forbidden by the group broadcast preview

【Configuration Example】

Port Information:

Port	Max Group Limit	Fast Leave	Multicast Vlan	IGMP Filtering Profile
*		<input type="checkbox"/>		
GE0/0/1	507	<input checked="" type="checkbox"/>	1	1

4.2.17.3. IGMP Snooping Dney VLAN

Selecting “**Advanced Application>Multicast>IGMP Snooping Dney VLAN**”, in the navigation bar, you can preview the banned group broadcast group, unable to learn the multicast group that is prohibited by the group preview.

IGMP Snooping Deny VLAN Multicast Setting

Vid

Deny VLAN(s)

【Parameter Description】

Parameter	Description
Vid	Vlan's ID

4.2.17.4. IGMP Filtering Profile

Selecting “**Advanced Application>Multicast>IGMP Filtering Profile**”, in the navigation bar, you can add and remove the preview feature of the modified group.

Profile Setup

Profile ID

Profile Description

Profile Limit permit deny

[Add](#) [Modify](#) [Del](#) [Clear](#)

Index	Profile ID	Profile Description	Profile Limit	Referred Port
-------	------------	---------------------	---------------	---------------

Profile ID

Input Format IP MAC

Start Address

End Address

VLAN

[Add](#) [Clear](#)

Profile ID	Index	Start Addr	End Addr	VLAN	Delete
------------	-------	------------	----------	------	--------

【Parameter Description】

Parameter	Description
Profile ID	The range of 1-128
Profile Limit	Profile rules can be permit or deny
Input Format	The preview address can be configured to be either IP or MAC

4.2.18. IPv6 Multicast

Selecting “**Advanced Application>IPv6 Multicast**”, in the navigation bar, you can configure IPv6 Multicast.

The screenshot displays the network management interface. On the left, a vertical menu lists various configuration options, with 'IPv6 Multicast' circled in red. The main area shows the 'IPv6 Multicast Status' page, which includes a breadcrumb trail and a table header with columns: Index, VID, Port, and IPv6 Multicast Group. A link for 'IPv6 Multicast Setting' is also present.

4.2.18.1. IPv6 Multicast Status

Selecting “**Advanced Application**>**IPv6 Multicast**>**IPv6 Multicast Status**”, in the navigation bar, you can view all IPv6 Multicast groups.

The screenshot shows the 'IPv6 Multicast Setting' page. It features a breadcrumb trail starting with 'IPv6 Multicast Status' and a link to 'IPv6 Multicast Setting'. Below the breadcrumb is a table header with columns: Index, VID, Port, and IPv6 Multicast Group.

4.2.18.2. IPv6 Multicast Setting

Selecting “**Advanced Application**>**IPv6 Multicast**>**IPv6 Multicast Setting**”, in the navigation bar, you can configure IPv6 Multicast.

MLD Snooping:

Active	<input type="checkbox"/>
Querier	<input type="checkbox"/>
Host Timeout	300 seconds
MLD Route Port Forward	<input type="checkbox"/>

Port Information:

Port	Max Group Limit	Fast Leave	IPv6 Multicast Vlan
*		<input type="checkbox"/>	
GE0/0/1	1020	<input type="checkbox"/>	0
GE0/0/2	1020	<input type="checkbox"/>	0
GE0/0/3	1020	<input type="checkbox"/>	0
GE0/0/4	1020	<input type="checkbox"/>	0
GE0/0/5	1020	<input type="checkbox"/>	0
GE0/0/6	1020	<input type="checkbox"/>	0
GE0/0/7	1020	<input type="checkbox"/>	0
GE0/0/8	1020	<input type="checkbox"/>	0
GE0/0/9	1020	<input type="checkbox"/>	0
GE0/0/10	1020	<input type="checkbox"/>	0
GE0/0/11	1020	<input type="checkbox"/>	0
GE0/0/12	1020	<input type="checkbox"/>	0
GE0/0/13	1020	<input type="checkbox"/>	0
GE0/0/14	1020	<input type="checkbox"/>	0
GE0/0/15	1020	<input type="checkbox"/>	0
GE0/0/16	1020	<input type="checkbox"/>	0
GE0/0/17	1020	<input type="checkbox"/>	0

【Parameter Description】

Parameter	Description
Active	Enable or disable MLD snooping
Querier	Enable or disable MLD snooping timed Querier
Host Timeout	Configure Dynamic IPv6 multicast aging time (default 300s)
MLD Route Port Forward	Enable or disable MLD Route Port Forward
Max Group Limit	Configure maximum learning IPv6 Multicast message of port(default 1020)
Fast Leave	Enable or disable Fast Leave (That is, when the port receives IGMP leave message, the port is deleted immediately from the IPv6 multicast group)
IPv6 Multicast VLAN	Configure IPv6 multicast default VLAN

【Configuration Example】

MLD Snooping:

Active	<input type="checkbox"/>
Querier	<input type="checkbox"/>
Host Timeout	<input type="text" value="300"/> seconds
MLD Route Port Forward	<input type="checkbox"/>

Port Information:

Port	Max Group Limit	Fast Leave	IPv6 Multicast Vlan
*		<input type="checkbox"/>	
GE0/0/1	507	<input checked="" type="checkbox"/>	1
GE0/0/2	507	<input type="checkbox"/>	0

4.2.18.3. MLD Snooping Dney VLAN

Selecting “**Advanced Application>IPv6 Multicast>MLD Snooping Dney VLAN**”, in the navigation bar, you can configure MLD Snooping Dney VLAN.

MLD Snooping Dney VLAN [IPv6 Multicast Setting](#)

Vid Add Del Clear

Deny VLAN(s)

【Parameter Description】

Parameter	Description
Vid	Vlan ID

4.2.19. Dos attack protect

Selecting “Advanced Application>Dos attack protect”, in the navigation bar, you can configure dos attack protect.

Basic Setting

Advanced Application Management

VLAN

MAC Address Forwarding

Spanning Tree Protocol

ERPS Protocol

EAPS Protocol

Layer 2 Tunneling Protocol

PPPOE IA

Bandwidth Control

Broadcast Storm Control

Mirroring

Link Aggregation

Port Security

POE Settings

Classifier

Policy Rule

Queuing Method

Multicast

IPv6 Multicast

Dos attack protect

DHCP Snooping Setting

SNTP Setting

QinQ

LLDP Protocol

AAA

Dos Attack Protect

cpu queue control:

queue (class of packets)	MIN bandwidth(unit:64kbps)	MAX bandwidth(unit:64kbps)
0 (broadcast, tcp, udp...)	128	384
1 (local switch manage packets)	256	5120
2 (icmp ssh, mld)	256	5120
3 (arp)	256	5120
4 (ipmc, dhcp, snmp, igmp)	1024	6144
5 (telnet, l3 type protocol)	1024	6144
6 (bpd, erps, eaps)	1024	6144
7 (higig)	1024	10240

Refresh Apply Cancel

dos attack control:

Dos attack packets class	drop Active
src mac and dst mac equal	<input type="checkbox"/>
src ip and dst ip equal	<input type="checkbox"/>
UDP with sport and dport equal	<input type="checkbox"/>
TCP with sport and dport equal	<input type="checkbox"/>
ICMPv4 payload maximum length	<input type="checkbox"/> 512
ICMPv6 payload maximum length	<input type="checkbox"/> 512
TCP control flags and sequence equal 0	<input type="checkbox"/>
TCP syn packets sport 0-1023, applies to unfragmented packets	<input type="checkbox"/>
enable dos attack ip first fragments	<input type="checkbox"/>
check minimum size of ipv6 fragments	<input type="checkbox"/> 1280

【Parameter Description】

Parameter	Description
dos attack control	The DOS attack is controlled by the discarding behavior of the corresponding message

4.2.20. DHCP Snooping Setting

Selecting “Advanced Application>DHCP Snooping Setting”, in the navigation bar, you can configure DHCP Snooping.

Basic Setting

Advanced Application Management

- VLAN
- MAC Address Forwarding
- Spanning Tree Protocol
- ERPS Protocol
- EAPS Protocol
- Layer 2 Tunneling Protocol
- PPPOE IA
- Bandwidth Control
- Broadcast Storm Control
- Mirroring
- Link Aggregation
- Port Security
- POE Settings
- Classifier
- Policy Rule
- Queuing Method
- Multicast
- IPv6 Multicast
- Dos attack protect
- DHCP Snooping Setting**
- SNTP Setting
- QinQ
- LLDP Protocol
- AAA

DHCP Snooping Setting
IP Source Guard

DHCP Snooping Enable Close Open

Port	Trust	Maxclients
*	<input type="checkbox"/>	
GE0/0/1	<input type="checkbox"/>	2048
GE0/0/2	<input type="checkbox"/>	2048
GE0/0/3	<input type="checkbox"/>	2048
GE0/0/4	<input type="checkbox"/>	2048
GE0/0/5	<input type="checkbox"/>	2048
GE0/0/6	<input type="checkbox"/>	2048
GE0/0/7	<input type="checkbox"/>	2048
GE0/0/8	<input type="checkbox"/>	2048
GE0/0/9	<input type="checkbox"/>	2048
GE0/0/10	<input type="checkbox"/>	2048
GE0/0/11	<input type="checkbox"/>	2048
GE0/0/12	<input type="checkbox"/>	2048
GE0/0/13	<input type="checkbox"/>	2048
GE0/0/14	<input type="checkbox"/>	2048
GE0/0/15	<input type="checkbox"/>	2048
GE0/0/16	<input type="checkbox"/>	2048
GE0/0/17	<input type="checkbox"/>	2048
GE0/0/18	<input type="checkbox"/>	2048
GE0/0/19	<input type="checkbox"/>	2048
GE0/0/20	<input type="checkbox"/>	2048
GE0/0/21	<input type="checkbox"/>	2048

4.2.20.1. DHCP Snooping Setting

Selecting “**Advanced Application>DHCP Snooping Setting>DHCP Snooping Setting**”, in the navigation bar, you can configure DHCP Snooping. Nowadays, the network is getting larger and more complicated. The amount of the PCs always exceeds that of the assigned IP addresses. The wireless network and the laptops are widely used and the locations of the PCs are always changed. Therefore, the corresponding IP address of the PC should be updated with a few configurations. DHCP (Dynamic Host Configuration Protocol), the network configuration protocol optimized and developed basing on the BOOTP, functions to solve the above mentioned problems.

DHCP Snooping Setting IP Source Guard

DHCP Snooping Enable Close Open

Port	Trust	Maxclients
*	<input type="checkbox"/>	
GE0/0/1	<input type="checkbox"/>	2048
GE0/0/2	<input type="checkbox"/>	2048
GE0/0/3	<input type="checkbox"/>	2048
GE0/0/4	<input type="checkbox"/>	2048
GE0/0/5	<input type="checkbox"/>	2048
GE0/0/6	<input type="checkbox"/>	2048
GE0/0/7	<input type="checkbox"/>	2048
GE0/0/8	<input type="checkbox"/>	2048
GE0/0/9	<input type="checkbox"/>	2048
GE0/0/10	<input type="checkbox"/>	2048
GE0/0/11	<input type="checkbox"/>	2048
GE0/0/12	<input type="checkbox"/>	2048
GE0/0/13	<input type="checkbox"/>	2048
GE0/0/14	<input type="checkbox"/>	2048
GE0/0/15	<input type="checkbox"/>	2048
GE0/0/16	<input type="checkbox"/>	2048
GE0/0/17	<input type="checkbox"/>	2048
GE0/0/18	<input type="checkbox"/>	2048
GE0/0/19	<input type="checkbox"/>	2048
GE0/0/20	<input type="checkbox"/>	2048
GE0/0/21	<input type="checkbox"/>	2048

【Parameter Description】

Parameter	Description
DHCP Snooping Enable	Enable or disable DHCP Snooping serve
Trust	Enable or disable the DHCP Snooping port trust property state
Maxclients	Set Maxclients

【Configuration Example】

DHCP Snooping Setting IP Source Guard

DHCP Snooping Enable Close Open

Port	Trust	Maxclients
*	<input type="checkbox"/>	
GE0/0/1	<input checked="" type="checkbox"/>	2048

4.2.20.2. IP Source Guard

Selecting “Advanced Application>DHCP Snooping Setting>IP Source Guard”, in the navigation bar, you can configure IP Source Guard.

Port	Mode
*	Disable ▼
GE0/0/1	Disable ▼
GE0/0/2	Disable ▼
GE0/0/3	Disable ▼
GE0/0/4	Disable ▼
GE0/0/5	Disable ▼
GE0/0/6	Disable ▼
GE0/0/7	Disable ▼
GE0/0/8	Disable ▼
GE0/0/9	Disable ▼
GE0/0/10	Disable ▼
GE0/0/11	Disable ▼
GE0/0/12	Disable ▼
GE0/0/13	Disable ▼
GE0/0/14	Disable ▼
GE0/0/15	Disable ▼
GE0/0/16	Disable ▼
GE0/0/17	Disable ▼
GE0/0/18	Disable ▼
GE0/0/19	Disable ▼
GE0/0/20	Disable ▼
GE0/0/21	Disable ▼
GE0/0/22	Disable ▼
GE0/0/23	Disable ▼
GE0/0/24	Disable ▼
GE0/0/25	Disable ▼
GE0/0/26	Disable ▼
GE0/0/27	Disable ▼
GE0/0/28	Disable ▼

【Parameter Description】

Parameter	Description
Disable unbinding entry to access network	Enable or Disable unbinding entry to access network

【Instructions】

If you want to access shall be binding and switch the IP address of the same network segment.

4.2.21. SNTP Setting

Selecting "Advanced Application>SNTP Setting", in the navigation bar, you can configure SNTP.

The screenshot shows the 'SNTP Setup' configuration page. On the left is a navigation menu with 'SNTP Setting' highlighted. The main content area is titled 'SNTP Setup' and includes the following fields:

- SNTP Client Enable:
- SNTP Client Mode: broadcast (dropdown)
- SNTP Client Poll Interval: 1000 (range 64-1024)
- SNTP Client Retransmit Times: 3 (range 1-10)
- SNTP Client Retransmit Interval: 30 (range 3-30)
- SNTP Client Broadcast Delay: 3 (range 1-9999)ms
- MD5 Authentication Enable:
- Encrypt Enable:
- SNTP Server IP Address: (XXX.X)
- Backup Server IP Address: (XXX.X)
- SNTP Server Key: (text input)

Below these fields are 'Apply' and 'Refresh' buttons. The 'Authentication Key List' section has a table with columns 'KeyID', 'Key', and 'Trusted'. The 'Trusted' column has a dropdown menu currently set to 'YES'. Below the table are 'Add', 'Modify', 'Del', and 'DelAll' buttons. A 'Valid Server List' section is also present at the bottom.

【Parameter Description】

Parameter	Description
SNTP Client Enable	Enable or disable SNTP Client
SNTP Client Mode	SNTP Client Mode: broadcast, anycast multicast unicast
SNTP Client Poll Interval	It's interval that SNTP Client sends requests to SNTP Server
SNTP Client Retransmit Times	If SNTP Client does not receive a response within a certain period of time after sending a request, it will resend the request until the number of retransmissions exceeds the set value
SNTP Client Retransmit Interval	It's interval that SNTP Client resends requests to SNTP Server
SNTP Server IP Address	Set SNTP Server IP Address
Valid Server List Server IP	SNTP only receives the messages from Valid Server List Server IP configured
SNTP Client Enable	Enable or disable SNTP Client
SNTP Client Mode	SNTP Client Mode: broadcast, anycast multicast

	unicast
SNTP Client Poll Interval	It's interval that SNTP Client sends requests to SNTP Server
SNTP Client Retransmit Times	If SNTP Client does not receive a response within a certain period of time after sending a request, it will resend the request until the number of retransmissions exceeds the set value
Valid Server List Server IP	SNTP only receives the messages from Valid Server List Server IP configured

【Instructions】

SNTP Client receives and transmits messages from any SNTP Server when work mode of SNTP Client is broadcast or multicast. Local time cannot be synchronized to standard time if there is a malicious attack server (which provides incorrect time)

4.2.22. LLDP Protocol

Selecting “**Advanced Application>LLDP Protocol**”, in the navigation bar, you can configure LLDP.

Basic Setting	LLDP Status	LLDP Setting
Advanced Application Management	Port	Mode TxPkts RxPkts Neighbours
	GE0/0/1	RxTx - - -
	GE0/0/2	RxTx - - -
	GE0/0/3	RxTx - - -
	GE0/0/4	RxTx - - -
	GE0/0/5	RxTx - - -
	GE0/0/6	RxTx - - -
	GE0/0/7	RxTx - - -
	GE0/0/8	RxTx - - -
	GE0/0/9	RxTx - - -
	GE0/0/10	RxTx - - -
	GE0/0/11	RxTx - - -
	GE0/0/12	RxTx - - -
	GE0/0/13	RxTx - - -
	GE0/0/14	RxTx - - -
	GE0/0/15	RxTx - - -
	GE0/0/16	RxTx - - -
	GE0/0/17	RxTx - - -
	GE0/0/18	RxTx - - -
	GE0/0/19	RxTx - - -
	GE0/0/20	RxTx - - -
	GE0/0/21	RxTx - - -
	GE0/0/22	RxTx - - -
	GE0/0/23	RxTx - - -
	GE0/0/24	RxTx - - -
	GE0/0/25	RxTx - - -
	GE0/0/26	RxTx - - -
	GE0/0/27	RxTx - - -
	GE0/0/28	RxTx - - -
	GE0/0/29	RxTx - - -
	GE0/0/30	RxTx - - -

4.2.22.1. LLDP Status

Selecting “**Advanced Application>LLDP Protocol>LLDP Status**”, in the navigation bar, you can view LLDP status.

LLDP Status				LLDP Setting
Port	Mode	TxPkts	RxPkts	Neighbours
GE0/0/1	RxTx	-	-	-
GE0/0/2	RxTx	-	-	-
GE0/0/3	RxTx	-	-	-
GE0/0/4	RxTx	-	-	-
GE0/0/5	RxTx	-	-	-
GE0/0/6	RxTx	-	-	-
GE0/0/7	RxTx	-	-	-
GE0/0/8	RxTx	-	-	-
GE0/0/9	RxTx	-	-	-
GE0/0/10	RxTx	-	-	-
GE0/0/11	RxTx	-	-	-
GE0/0/12	RxTx	-	-	-
GE0/0/13	RxTx	-	-	-
GE0/0/14	RxTx	-	-	-
GE0/0/15	RxTx	-	-	-
GE0/0/16	RxTx	-	-	-
GE0/0/17	RxTx	-	-	-
GE0/0/18	RxTx	-	-	-
GE0/0/19	RxTx	-	-	-
GE0/0/20	RxTx	-	-	-
GE0/0/21	RxTx	-	-	-
GE0/0/22	RxTx	-	-	-
GE0/0/23	RxTx	-	-	-
GE0/0/24	RxTx	-	-	-
GE0/0/25	RxTx	-	-	-
GE0/0/26	RxTx	-	-	-
GE0/0/27	RxTx	-	-	-
GE0/0/28	RxTx	-	-	-
GE0/0/29	RxTx	-	-	-
GE0/0/30	RxTx	-	-	-

4.2.22.2. LLDP Setting

Selecting "Advanced Application>LLDP Protocol>LLDP Setting", in the navigation bar, you can configure LLDP.

LLDP Setting [LLDP Status](#)

Active

Hello-time seconds(5-32768)

Hold-time seconds(2-10)

Port	Mode
*	Disable ▼
GE0/0/1	TxRx ▼
GE0/0/2	TxRx ▼
GE0/0/3	TxRx ▼
GE0/0/4	TxRx ▼
GE0/0/5	TxRx ▼
GE0/0/6	TxRx ▼
GE0/0/7	TxRx ▼
GE0/0/8	TxRx ▼
GE0/0/9	TxRx ▼
GE0/0/10	TxRx ▼
GE0/0/11	TxRx ▼
GE0/0/12	TxRx ▼
GE0/0/13	TxRx ▼
GE0/0/14	TxRx ▼
GE0/0/15	TxRx ▼
GE0/0/16	TxRx ▼
GE0/0/17	TxRx ▼
GE0/0/18	TxRx ▼
GE0/0/19	TxRx ▼
GE0/0/20	TxRx ▼
GE0/0/21	TxRx ▼

4.2.23. AAA

Selecting “**Advanced Application>AAA**”, in the navigation bar, you can configure AAA.

Basic Setting **AAA** [MUSER](#)

Advanced Application Management

EAP Forwarding Mode ▼

Quiet Period seconds(0-600)

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/1	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/2	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/3	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/4	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/5	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/6	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/7	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/8	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/9	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/10	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/11	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/12	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/13	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/14	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/15	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/16	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/17	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/18	disable ▼	auto ▼	OF ▼	3600 seconds	100
GE0/0/19	disable ▼	auto ▼	OF ▼	3600 seconds	100

4.2.23.1. 802.1x

Selecting “**Advanced Application>AAA>802.1x**”, in the navigation bar, you can configure 802.1x.

EAP Forwarding Mode
Quiet Periodeap-finish
0 seconds(0-600)

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable	auto	Of		
GE0/0/1	disable	auto	Of	3600 seconds	100
GE0/0/2	disable	auto	Of	3600 seconds	100
GE0/0/3	disable	auto	Of	3600 seconds	100
GE0/0/4	disable	auto	Of	3600 seconds	100
GE0/0/5	disable	auto	Of	3600 seconds	100
GE0/0/6	disable	auto	Of	3600 seconds	100
GE0/0/7	disable	auto	Of	3600 seconds	100
GE0/0/8	disable	auto	Of	3600 seconds	100
GE0/0/9	disable	auto	Of	3600 seconds	100
GE0/0/10	disable	auto	Of	3600 seconds	100
GE0/0/11	disable	auto	Of	3600 seconds	100
GE0/0/12	disable	auto	Of	3600 seconds	100
GE0/0/13	disable	auto	Of	3600 seconds	100
GE0/0/14	disable	auto	Of	3600 seconds	100
GE0/0/15	disable	auto	Of	3600 seconds	100
GE0/0/16	disable	auto	Of	3600 seconds	100
GE0/0/17	disable	auto	Of	3600 seconds	100
GE0/0/18	disable	auto	Of	3600 seconds	100
GE0/0/19	disable	auto	Of	3600 seconds	100

【Parameter Description】

Parameter	Description
EAP Forwarding Mode	EAP Forwarding Mode : eap-finish, Eap-tansfer
Quiet Period	If the same user fails to log in more than the allowed value, he or she will not be allowed to try to log in at a certain time
Active	Active: disable portbased(multi) portbased(single) macbased
Port Control	Port Control: auto forceauthorized forceunauthorized
Reauthentication	After user authentication is passed, the port can be configured to reauthenticate or periodically re-authenticate
Reauthentication Timer	Time range of Reauthentication Timer: 10-3600 seconds
Max user(s)	The maximum number of users: 1-100

【Configuration Example】

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable	auto	Of		
GE0/0/1	disable	auto	Of	3600 seconds	100

4.2.23.2. Radius Domain

Selecting “**Advanced Application>AAA>Radius Domain**”, in the navigation bar, you can configure Radius Domain.

Domain [802.1x](#) [MUSER](#) [Radius](#) [TACACS+](#)

Radius Domain:

Active	<input type="checkbox"/>
Domain Name	<input type="text"/>
Default Domain	<input type="checkbox"/>
Radius Service Name	<input type="text"/>
Force Max Number	<input checked="" type="radio"/> Disable <input type="radio"/> <input type="text" value="1"/> (1-640)

Domain Name	Radius Service Name	Active	Delete

【Parameter Description】

Parameter	Description
Active	Enable or disable radius domain
Domain Name	Set domain name
Radius Server Name	Set Radius Server name
Force Max Number	Maximum number of user connections range: 1-640

【Instructions】

It needs to provide user name and password when the client is authenticated. The user name information generally includes the ISP information of user, domain and the ISP one-to-one correspondence, the main information domain is the domain of the user is authenticated and accounted by which RADIUS server.

4.2.23.3. Remote Authentication

Selecting “**Advanced Application>AAA>Remote Authentication**”, in the navigation bar, you can configure Remote Authentication.

Remote Authentication [802.1x](#) [AAA](#) [Raduis](#) [TACACS+](#)

Authentication Mode ▼

【Parameter Description】

Parameter	Description
Authentication Mode	Authentication Mode: Local, Radius, Tacacs+

4.2.23.4. TACACS+ Server Setup

Selecting “**Advanced Application>AAA>TACACS+ Server Setup**”, in the navigation bar, you can configure TACACS+ Server Setup.

TACACS+ Server Setup
AAA
MUSER

Authentication Server

Authentication Type	ascii ▾
Encrypt Key	<input type="checkbox"/>
Preemption Time	0 min (0-1440)

Index	IP Address	TCP Port	Shared Secret	TimeOut	Delete
1	0.0.0.0	49		5	<input type="checkbox"/>
2		49		5	<input type="checkbox"/>

【Parameter Description】

Parameter	Description
Authentication Type	Authentication Mode: ascii, Chap, pap
Preemption Time	The time range of Preemption Time: 0-1440 minutes

4.2.23.5. Radius Server Setup

Selecting “**Advanced Application>AAA>Radius Server Setup**”, in the navigation bar, you can configure Radius Server Setup.

RADIUS Server Setup
AAA
MUSER

8021P Priority	<input type="checkbox"/>
H3C Cams	<input type="checkbox"/>
Bandwidth Limit	<input type="checkbox"/>

Radius Host:

Host Name	
Preemption Time	0 min (0-1440)

Server	Index	IP Address	UDP Port	Shared Secret
Authentication Server	1	0.0.0.0	1812	Switch
	2	0.0.0.0	1812	
Accounting Server	1	0.0.0.0	1813	Switch
	2	0.0.0.0	1813	

Host	Authentication IP Address	Accounting IP Address	Delete

【Parameter Description】

Parameter	Description
8021P Priority	After this function is turned on, if the user authentication is pass, it will modify the PVID of the user's port.
H3C Cams	In this feature, you can configure the version information of transmitting clients to the radius server through the radius attribute client-version.
Bandwidth limit	After this function is turned on, if the user authentication is pass, it will modify the Bandwidth of the user's port.

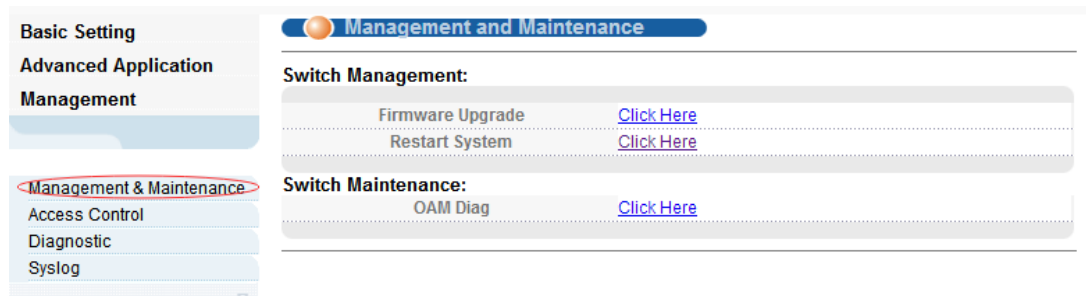
4.3. Management

Choose Management, and the following page appears. There are "Management & Maintenance", "Access Control", "Diagnostic", "Syslog", configuration web pages.



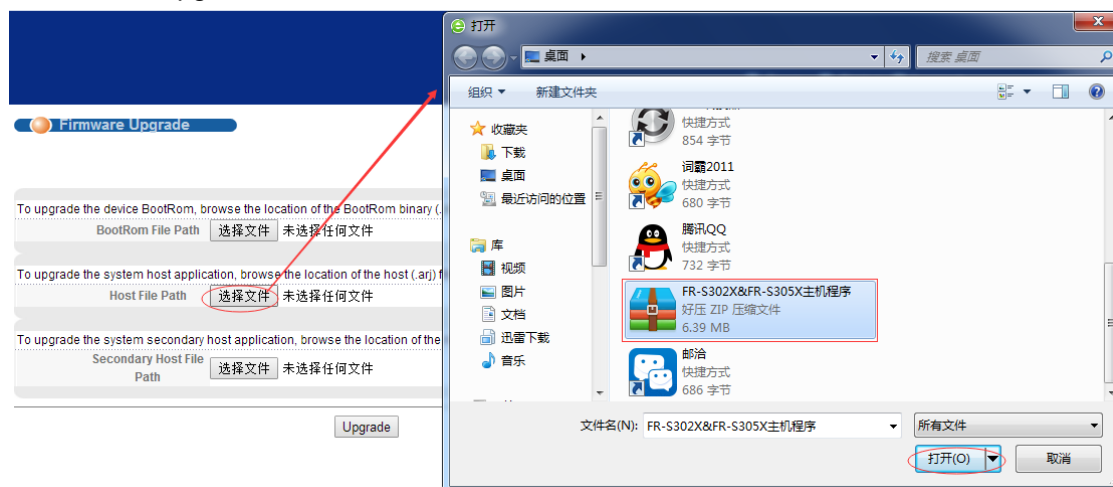
4.3.1. Management & Maintenance

Selecting "Management > Management & Maintenance", in the navigation bar, you can Upgrade Firmware, Restart System and Maintenance switch.



【Configuration Example】

1. Firmware Upgrade



2. Restart system. Restart type: Restart, Restart with Factory Defaults.

Restart System [Management](#)

startup application select Default Host (d18.12.27) Secondary Host (V01D01P03SP06)

Select restart type ▾

3.OAM Diag, Virtual cable can be tested.

OAM Diag [Maintenance](#)

Virtual Cable Test :

port		Detect		
twisted-pair:	pair1	pair2	pair3	pair4
status:	NORMAL	NORMAL	NORMAL	NORMAL
locate(meters):				

4.3.2. Access Control

Selecting “**Management> Access Control**”, in the navigation bar, you can set SNMP and Logins.

Basic Setting

Advanced Application

Management

Management & Maintenance

- Access Control
- Diagnostic
- Syslog

Access Control

SNMP	Click Here
Logins	Click Here

4.3.2.1. SNMP

Selecting “**Management> Access Control>SNMP**”, in the navigation bar, you can configure SNMP.

SNMP [Access Control](#) [User](#)

General Setting

Community Name	<input type="text"/>
Access privilege	Read-write ▾

Trap Destination

Version	IP	Port	Username
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public

【Parameter Description】

Parameter	Description
Community Name	Community string, is equal to the NMS and Snmp agent communication between the password
Access privilege	Read-only: specify the NMS (Snmp host) of MIB variables can only be read, cannot be modified Read- write: specify the NMS (Snmp host) of MIB variables can only read, can also be modified
Version	Set version: v1, v2c, v3
IP	Set the IP address of the trap host

【Configuration Example】

Such as: Add a group name public community, access to Read-Write. Set host 192.168.1.100 to receive trap messages. The specified version is v2c.

SNMP [Access Control](#) [User](#)

General Setting

Snmp Server	ENABLE ▾
Community Name	public
Access privilege	Read-write ▾

Trap Destination

Version	IP	Port	Username
v2c ▾	192.168.1.100	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public
v2c ▾	0.0.0.0	162	public

Apply Cancel

4.3.2.2. User Information

Selecting “**Management> Access Control>User Information**”, in the navigation bar, you can add user, set Security Level, Authentication, Privacy, Group, Password.

General Setting

Community Name	public
Access privilege	Read-write ▼

Trap Destination

Version	IP	Port	Username
v2c ▼	192.168.1.100	162	public
v2c ▼	0.0.0.0	162	public
v2c ▼	0.0.0.0	162	public
v2c ▼	0.0.0.0	162	public

Apply Cancel

【Parameter Description】

Parameter	Description
Username	Snmp username
Security Level	noauth auth pri
Authentication	MD5 SHA
Privacy	DES Privacy
Group	User group name
Password	Encrypted password

【Configuration Example】

Such as: Add group initial, add username user1.

Username	user1	Security Level	noauth ▼	Authentication	MD5 ▼	Privacy	DES ▼	Group	initial ▼	Password	admin
										Password	admin

Add Cancel Clear

4.3.2.3. Logins

Selecting “**Management>Access Control>Logins**”, in the navigation bar, you can modify admin password, configurable ordinary users.

Logins
[Access Control](#)
[Super Password](#)

Edit admin

Old Password (1-32 characters)	
New Password (1-32 characters)	
Retype to confirm	
User privilege (0:Guest 1:User 2-14:Operator 15:Manager)	15 Administrator

Please record your new password whenever you change it. The system will lock you out if you have forgotten your password.

Edit Other Logins

Login	User Name	New Password	Retype to confirm	User privilege
1				0 Guest ▼
2				0 Guest ▼
3				0 Guest ▼
4				0 Guest ▼
5				0 Guest ▼
6				0 Guest ▼
7				0 Guest ▼
8				0 Guest ▼
9				0 Guest ▼
10				0 Guest ▼
11				0 Guest ▼
12				0 Guest ▼
13				0 Guest ▼
14				0 Guest ▼

【Parameter Description】

Parameter	Description
User privilege	0-1: Normal 2-15: administrator

【Configuration Example】

Logins [Access Control](#) [Super Password](#)

Edit admin

Old Password (1-32 characters)	•••••
New Password (1-32 characters)	••••
Retype to confirm	••••
User privilege (0:Guest 1:User 2-14:Operator 15:Manager)	15 Administrator

Modify

Please record your new password whenever you change it. The system will lock you out if you have forgotten your password.

Edit Other Logins

Login	User Name	New Password	Retype to confirm	User privilege
1	Anne	•••••	•••••	0 Guest ▼
2				0 Guest ▼
3				0 Guest ▼
4				0 Guest ▼
5				0 Guest ▼
6				0 Guest ▼
7				0 Guest ▼
8				0 Guest ▼
9				0 Guest ▼
10				0 Guest ▼
11				0 Guest ▼
12				0 Guest ▼
13				0 Guest ▼
14				0 Guest ▼
15				0 Guest ▼

Apply **Cancel**

4.3.3. Diagnostic

Selecting “**Management**> **Diagnostic**”, in the navigation bar, you can Display or Clear System Log.

Basic Setting **Diagnostic**

- Advanced Application
- Management**
- Management & Maintenance
- Access Control
- Diagnostic**
- Syslog

- Info -

System Log **Display** **Clear**

【Configuration Example】

Such as: Display System Log.

Diagnostic

```
2014/01/01 02:22:35: %OAM-5-LOGIN: The remote client
192.168.1.100 (admin) has logged in at web 1.
2014/01/01 02:22:28: %OAM-5-LOGOUT: The remote client
192.168.1.100 (admin) has logged out at web 1.
2014/01/01 02:21:47: %OAM-5-LOGIN: The remote client
192.168.1.100 (admin) has logged in at web 1.
2014/01/01 02:21:42: %OAM-5-LOGOUT: The remote client
192.168.1.100 (admin) has logged out at web 1.
2014/01/01 02:14:01: %OAM-5-LOGIN: The remote client
192.168.1.100 (admin) has logged in at web 1.
2014/01/01 02:13:52: %OAM-5-LOGOUT: The remote client
192.168.1.100 (admin) has logged out at web 1.
2014/01/01 02:11:40: %OAM-5-LOGIN: The remote client
192.168.1.100 (admin) has logged in at web 1.
2014/01/01 02:11:32: %OAM-5-LOGOUT: The remote client
```

System Log **Display** Clear

4.3.4. Syslog

Selecting “**Management> Syslog**”, in the navigation bar, you can configure syslog.

Syslog Setup [Syslog Server Setup](#)

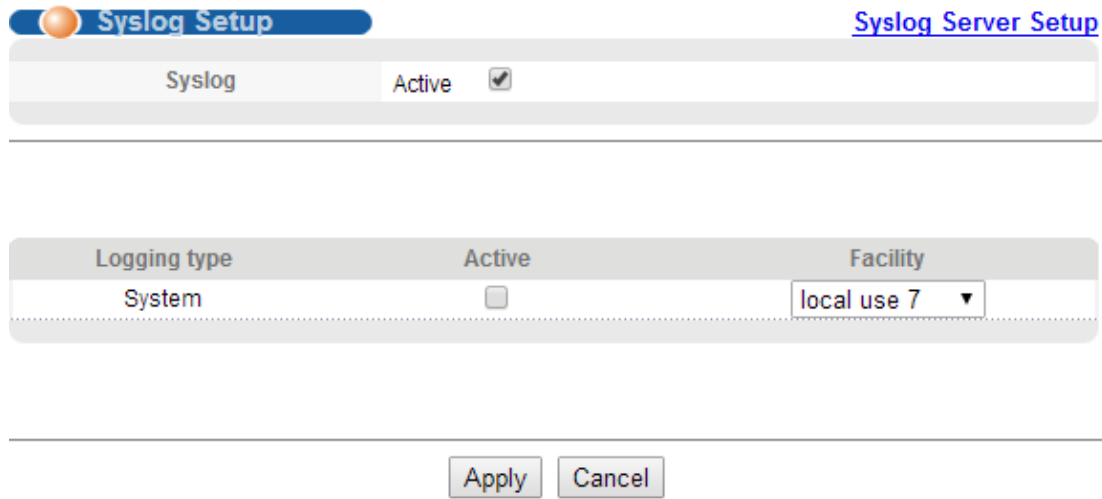
Syslog	Active	<input checked="" type="checkbox"/>
--------	--------	-------------------------------------

Logging type	Active	Facility
System	<input type="checkbox"/>	local use 7 ▼

Apply Cancel

4.3.4.1. Syslog Setup

Selecting “**Management>Syslog>Syslog Setup**”, in the navigation bar, you can start the logging function globally and the logging function of the corresponding module.



The image shows a web-based configuration interface for Syslog. At the top, there is a navigation bar with "Syslog Setup" highlighted in blue and "Syslog Server Setup" as a link. Below this, a control bar shows "Syslog" with an "Active" checkbox that is checked. A horizontal line separates this from a table below. The table has three columns: "Logging type", "Active", and "Facility". The first row shows "System" as the logging type, an unchecked "Active" checkbox, and a dropdown menu for "Facility" currently set to "local use 7". Below the table, there are "Apply" and "Cancel" buttons.

【Parameter Description】

Parameter	Description
Facility	local use 0-7 kernel userlevel mail system sercurity_1-2 sysogd lineprinter Networknews uucp clock_1-2 ftp logaudit logalert

【Configuration Example】

Such as:

Syslog Setup [Syslog Server Setup](#)

Syslog Active

Logging type	Active	Facility
System	<input checked="" type="checkbox"/>	local use 7 ▼

4.3.4.2. Syslog Server Setup

Selecting “**Management>Syslog>Syslog Server Setup**”, in the navigation bar, you can set syslog server.

Syslog Server Setup [Syslog Setup](#)

Active

Server Address

Log Level ▼

Index	Active	IP Address	Log Level	Delete
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【Parameter Description】

Parameter	Description
Server Address	Syslog Server Address
Log Level	Level 0 Level 0-1 Level 0-2 Level 0-3 Level 0-4 Level 0-5 Level 0-6 Level 0-7
Server Address	Syslog Server Address

【Instructions】

Open the log switch, set up the syslog server, and the system log will be automatically pushed to the server.

【Configuration Example】

Such as: 1)set server address is 192.168.1.100.

Syslog Server Setup [Syslog Setup](#)

Active	<input checked="" type="checkbox"/>
Server Address	192.168.1.100
Log Level	Level 0 ▼

Index	Active	IP Address	Log Level	Delete
1	Yes	192.168.1.100	0	<input type="checkbox"/>