

# Web Smart Managed Switches

## User Manual

Models 508834, 560559, 561167, 561198, 561341, 561426, 562003, 562065, 562072



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## **Chapter 1 - Product Introduction**

Thank you for purchasing this Intellinet Web Smart Managed Switch. Before you install and use this product, please read this manual carefully to benefit from the full set of features that are available.

### **1.1 Product Overview**

These Layer 2 switches are designed to create a high-security and high-performance network with Self-Healing Network features. They provide from eight to 24 10/100/1000 Mbps auto-sensing RJ45 ports and 100/1000 Mbps SFP optical ports. All ports support wire-speed forwarding and can provide you with larger network flexibility.

Some of our newer features have been labeled as Self-Healing Network (SHN) features. These features are designed to assist in the automated preservation of health on the network. To assist even further, we have partnered with Domotz™ to provide the additional option of Cloud Management, which gives the ability to administer our managed switches from any internet-connected device through an app on your smartphone or web application hosted by Domotz (Cloud Management is subscription-based, and information can be found at the following link:

<https://www.domotz.com/residential-plan.php>.)

### **1.2 Features**

- Compliance with IEEE 802.1p, IEEE 802.1q, IEEE 802.3ad, IEEE 802.3z, IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3ad, IEEE 802.3x
- In PoE versions, supports IEEE 802.3af, IEEE 802.3at , IEEE 802.3bt standards, management of the PoE ports, PoE port power on/off, and port output power restriction
- Web interface management
- Up to 24 x 10/100/1000 Mbps Auto MDI/MDI-X Ethernet ports, ports Auto MDI/MDIX
- 8K-entry MAC address table of the Switch with auto-learning and auto-aging
- Supports IEEE802.3x flow control for Full-duplex Mode and backpressure for Half-duplex Mode
- Supports QoS (quality of service), port mirroring, link aggregation protocol
- Supports packet length 9,216 bytes jumbo frame packet forwarding at wire speed
- LED indicators for monitoring Link / Activity / Speed and, in PoE versions, PSE monitoring

## 1.3 External Component Description

### 1.3.1 Front Panel (Example shown from 560559)

Depending on your model number, the front panel of the Switch consists of up to 24 x 10/100/1000 Mbps RJ45 ports, 4 x 1000 Mbps SFP ports (and 4 x Uplink RJ45 ports), 1 x Console port, 1 x Reset button and a series of LED indicators as shown as below.



#### A — 10/100/1000 Mbps RJ45 ports (1 – 24):

Designed to connect to a device with a bandwidth of 10 Mbps, 100 Mbps or 1000 Mbps. Each has a corresponding 10/100/1000 Mbps LED (see E — LED indicators below).

#### B — SFP ports (SFP1, SFP2, 25S, etc.):

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

#### Combo ports (25-28T) on model 561426:

The four SFP receiver slots are shared with four related RJ45 ports (25-28T). An SFP port and a related RJ45 port are called "composite" ports, which means that they can't be used at the same time. Either the SFP port works or the RJ45 port works.

#### C — Console port (Console):

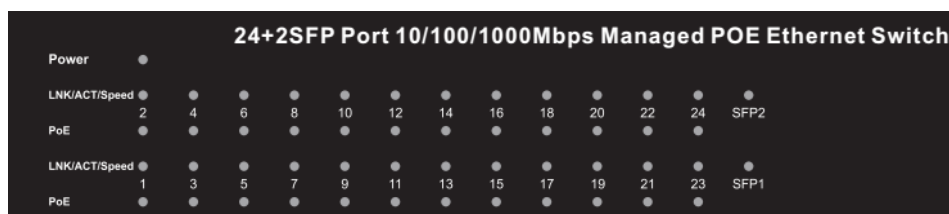
Designed to connect with the serial port of a computer or terminal for monitoring and configuring the Switch.

#### D — Reset button (Reset):

With the device powered on, press down the button for about 5 seconds. The system restores the factory default settings.

#### E — 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	STATUS	STATUS DESCRIPTION
Power	On	Power On
	Off	Power Off
LINK/ACT/ Speed (1 – 24; 25T – 28T)	Orange	A device is connected to the port at 10/100 Mbps
	Green	A device is connected to the port at 1000 Mbps
	Off	No device is connected to the port
	Flashing	Sending or receiving data
LINK/ACT/ Speed (SFP1, 2)	On	A device is connected to the port
	Off	No device is connected to the port
	Flashing	Sending or receiving data
PoE (1 – 24) (excluding 508834)	On	A Powered Device is connected to the port and is receiving power.
	Off	No Powered Device is connected to the port, or no power is supplied according to the power limits of the port.
	Flashing	The PoE power circuit may be in short or the power current may be overloaded.

### 1.3.2 Rear Panel (19 Rackmount/Desktop example shown)

The rear panel of the Switch contains AC power connector and one marker shown as below.



**F — AC Power Connector:**

Power is supplied through an external AC power adapter. See specifications for your model.

**G — Grounding Terminal:**

The Switch already comes with a Lightning Protection Mechanism. You can also ground the Switch through the PE (Protecting Earth) cable of an AC cord or with a Ground Cable.

## **1.4 Environment**

- Operating Temperature: 0°C – 45°C
- Storage Temperature: -40°C – 70°C
- Operating Humidity: 10% – 90% non-condensing
- Storage humidity: 5% – 90% non-condensing

## **1.5 Package Contents**

Before installing the Switch, make sure that the following the packing list matches the items in the packaging. If any part is lost and damaged, please contact your local agent immediately. In addition, make sure that you have the tools to install switches and cables on hand.

- One Managed Ethernet Switch
- Four rubber feet, two mounting ears and eights screws (except for Industrial version 508834, which is for DIN Rail mounting)
- One AC power cord (except for Industrial version 508834, which is designed to receive power from an Industrial power source)
- Quick Install Guide

## **Chapter 2 - Installing and Connecting the Switch**

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

### **2.1 Installation (19 Rackmount & Desktop version)**

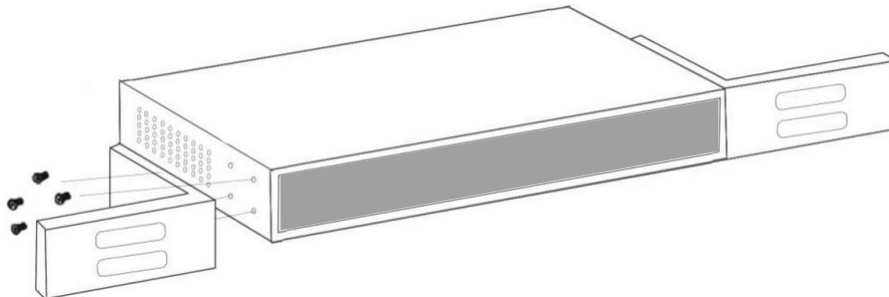
Please follow these instructions to avoid incorrect installation, cause device damage or security threats.

- Put the Switch on stable place or desktop to prevent damage from falling.
- Make sure the Switch works in the proper AC input range and matches the voltage labeled on the Switch.
- To prevent electrical shocks, do not open the Switch's housing, even in power failure or if disconnected from a power source.
- Make sure that there is proper heat dissipation from and adequate ventilation around the Switch.
- Make sure the cabinet can hold the weight of the Switch and its accessories.

#### **2.1.1 Installation in a 19-inch Rack / Cabinet**

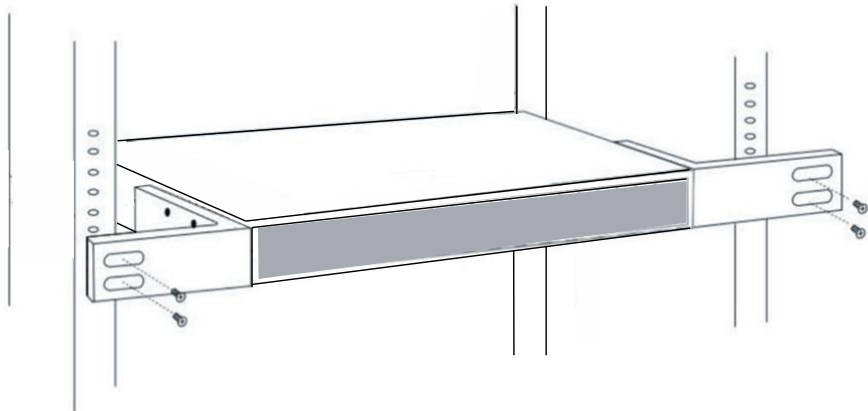
The Switch can be mounted in an EIA standard-sized, 19-inch rack, which can be placed in a wiring closet with other equipment. To install the Switch, follow these steps:

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



Bracket Installation

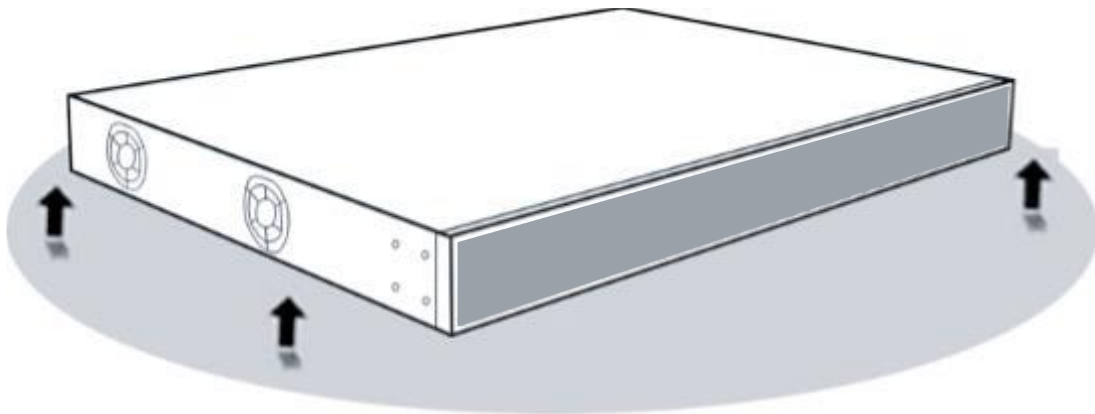
- b. Use the screws provided with the equipment rack to mount the Switch on the rack and tighten it.



Rack Installation

### **2.1.2 Desktop Installation**

If users are not equipped with a 19-inch standard cabinet, install the Switch on a desktop. Attach the included rubber feet on the bottom of the Switch at each corner to minimize external vibration. Allow adequate space for ventilation between the device and the objects around it.



Desktop Installation

### 2.1.3 DIN Rail Installation

For Industrial Models, the Switch can be installed onto a DIN rail. Follow these instructions:

1. With the DIN-rail bracket attached to the device with screws, angle the bracket onto the DIN rail.
2. Push in the device until it clicks into place.



### 2.1.4 Power on the Switch

The Switch is powered on by the AC 100 – 240 V 50/60 Hz 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:

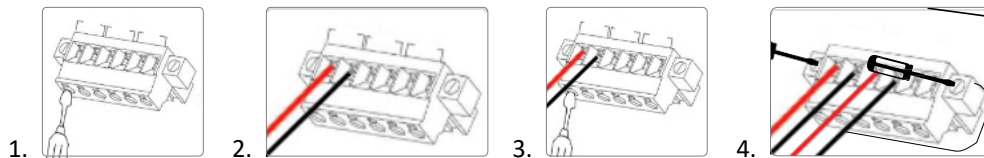
Connect the AC power connector in the back panel of the Switch to external receptacle with the included power cord, and check the power indicator is ON. When it is ON, it indicates the power connection is OK.

#### DC Terminal Block Installation (for Industrial models)

NOTE: Ensure all power is off/disconnected before beginning!

1. Loosen appropriate screws.
2. Insert bare power-supply wires into appropriate terminal slots (positive wire into positive slot; negative wire into negative slot).
3. Tighten appropriate screws to secure wires. (If desired, repeat steps 1 – 3 on second input pair.)
4. Install block into the device and tighten screws.

Example — Your model may be different.



## **2.2 Connect Computer (NIC) to the Switch**

After installing the network card driver, insert the NIC into the computer. Connect one end of the twisted pair to the RJ45 jack on your computer, and connect the other end to any RJ45 port of the Switch, with a maximum distance of 100 meters between the Switch and the computer. Once the connection is OK and the devices power on normally, the LINK/ACT/Speed status indicator lights, corresponding to ports on the Switch.

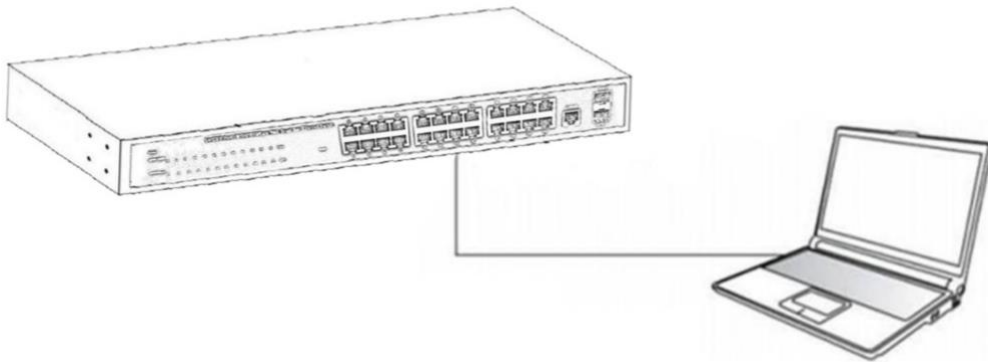
## **2.3 Switch connection to the PD (excluding 508834)**

On PoE models, any ports that have a PoE indicator also have the PoE power supply function, which makes it possible to provide power to PD devices such as VoIP phones, network cameras, wireless access points and more. You only need to connect the Switch PoE port directly to the PD with a network cable.

## **Chapter 3 - How to Log into the Switch**

### **3.1 Switch to End Node**

Use standard Cat5 and higher 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.



Please refer to the [LED Indicator](#) table shown above. The LNK/ACT/Speed LEDs for each port lights when the link is available.

### **3.2 Login Information**

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

<b>Parameter</b>	<b>Default Value</b>
Default IP address	192.168.2.1
Default Username	admin
Default Password	SERIAL NUMBER (S/N; found on the bottom of the switch)

You can log into the configuration window of the Switch through following steps:

1. Connect the Switch with the computer NIC interface.
2. Power on the Switch.

3. Check whether the IP address of the computer is within this network segment: 192.168.2.xxx (xxx ranges 2 – 254), for example, 192.168.2.100.
4. Open the browser and enter <http://192.168.2.1> and then press Enter. The Switch login window appears with the following picture:



Enter the Username and Password. The factory default Username is **admin** and the initial Password is the same as the serial number found on the bottom of the switch. Then click **Login** to log into the Switch configuration window.

## Chapter 4 - Web Configuration Guide

The Switch configuration interface consists of three main areas: the status bar at the top, the left function menu bar, and the main configuration window. Select the different functions in the function menu bar to modify all settings in the main configuration window.

The screenshot shows the 'Port Status' page in the web configuration interface. At the top left is the 'INTELLINET' logo. On the top right are 'Save', 'Status', and 'Logout' buttons. On the left is a navigation menu with 'Basic Setting', 'Advanced Application', and 'Management'. The main area displays a table of port status information.

Port	Name	Link	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		up	auto-1000M	forwarding	disabled	250	253	0	1024	178	0:08:44
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
GE0/1/1		down	auto	disabled	disabled	0	0	0	0	0	0:00:00
GE0/1/2		down	auto	disabled	disabled	0	0	0	0	0	0:00:00

Below the table, there are radio buttons for 'Any' (selected) and 'Port', followed by a 'Clear Counter' button.

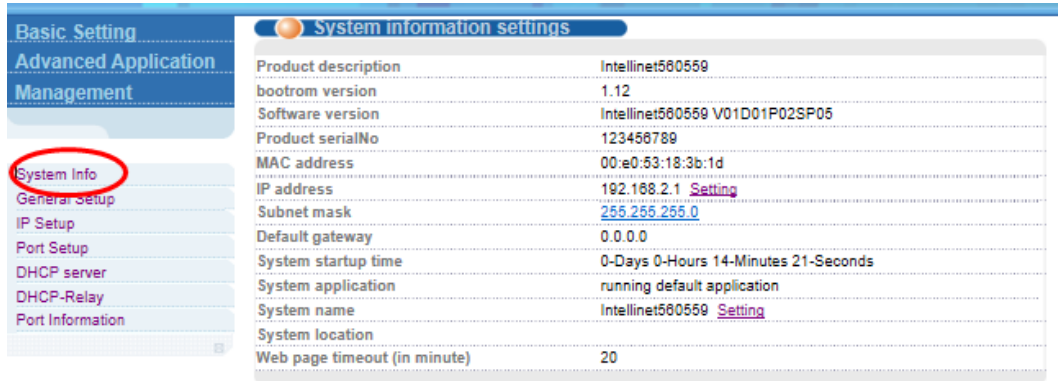
### 4.1 Basic Setting

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

The screenshot shows the 'Basic Setting' page in the web configuration interface. It features a blue header with the text 'Basic Setting', 'Advanced Application', and 'Management'. Below the header is a list of configuration options: 'System Info', 'General Setup', 'IP Setup', 'Port Setup', 'DHCP server', 'DHCP-Relay', and 'Port Information'.

### 4.1.1 System Info

To view the basic information of System and configure the IP address and System name, select **Basic Setting>System Information settings** in the function menu bar.



#### **【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	Configure the corresponding subnet mask of the IP address specified above. The default is 255.255.255.0.
Default Gateway	Specify a gateway address for the switch.
System name	System name.
System Location	Specify the system location.

#### **【Information】**

You can view and configure Running System status.

## 4.1.2 General Setup

To view the basic information of Switch, such as System Description and so on, select **Basic Setting>General Setup** in the function menu bar. You can also modify the System name, System contact and System location.

General Setup	
System description	Intellinet POE switch 560559
System object ID	1.3.6.1.4.1.45855.1.3.68.1
System port quantity	26
System startup time	0-Days 0-Hours 15-Minutes 44-Seconds
System name	Intellinet560559
System location	
System contact	admin
Product description	Intellinet560559

### 【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】

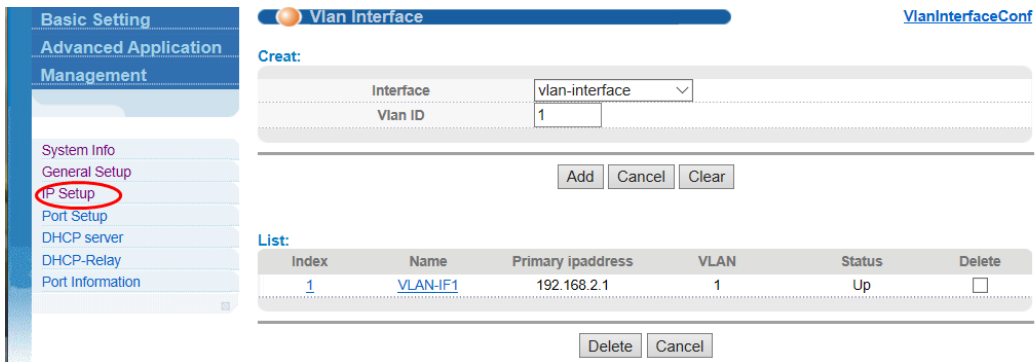
To configure general system information:

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.

General Setup	
System description	Intellinet POE switch 560559
System object ID	1.3.6.1.4.1.45855.1.3.68.1
System port quantity	26
System startup time	0-Days 0-Hours 15-Minutes 44-Seconds
System name	Switch
System location	office
System contact	admin
Product description	Intellinet560559

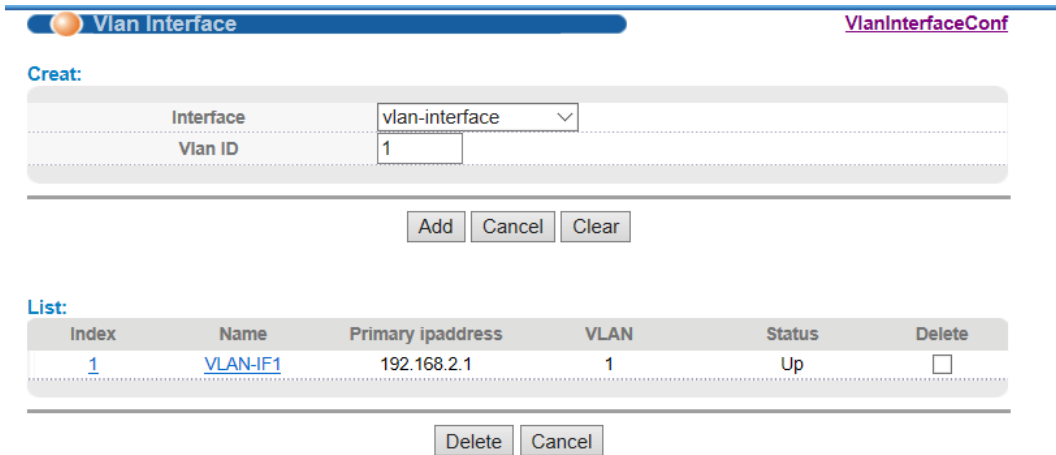
### 4.1.3 IP Setup

To configure the IP, select **Basic Setting>IP Setup** in the function menu bar.



#### 4.1.3.1 VLAN interface

To configure the VLAN Interface, select **Basic Setting>IP Setup>Vlan interface** in the function menu bar.



#### 【Parameter Description】

Parameter	Description
Interface	Select the interface: vlan-interface Supervlan-interface
Vlan ID	Specify the vlan ID
Name	The name of interface

### 4.1.3.2 VLAN Interface Config

To adjust settings to the VLAN Interface Configuration, select **Basic Setting>IP Setup>Vlan Interface Config** in the function menu bar.

Vlan Interface Config
[VlanInterface](#)

**VLAN Interface Name List:**

Interface Name	VLAN-IF1
Vlan ID	1

**VLAN Interface Configuration:**

Mode	Ip Address
IP Address	0.0.0.0
NetMask Address	0.0.0.0
Override	<input type="checkbox"/>

**VLAN Interface List:**

Index	Ip	Mask	Primary	Delete
1	192.168.2.1	<a href="#">255.255.255.0</a>	<input checked="" type="radio"/>	<input type="checkbox"/>

#### 【Parameter Description】

Parameter	Description
Interface name	Name of interface
Vlan ID	Specify the VLAN ID
IP Address	The IP address to log into the Switch
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](#)

**VLAN Interface Name List:**

Interface Name	VLAN-IF1
Vlan ID	1

Apply Cancel

**VLAN Interface Configuration:**

Mode	Ip Address
IP Address	192.168.2.2
NetMask Address	255.255.255.0
Override	<input checked="" type="checkbox"/>

Add Refresh

**VLAN Interface List:**

Index	Ip	Mask	Primary	Delete
1	192.168.2.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>

Modify Delete Cancel

#### 4.1.3.3 Changing the Management IP Address

In order to change the management IP address of the Intellinet switch, first select VLAN-IF1 from the VLAN list.

**Vlan Interface** [VlanInterfaceConf](#) [Default Gateway](#)

**Basic Setting**  
**Advanced Application**  
**Management**

System Info  
 General Setup  
 IP Setup  
 Port Setup  
 DHCP server  
 DHCP-Relay  
 Port Information

**Create:**

Interface	vlan-interface
Vlan ID	1

Add Cancel Clear

**List:**

Index	Name	Primary Ipaddress	VLAN	Status	Delete
1	VLAN-IF1	192.168.2.1	1	Up	<input type="checkbox"/>

Delete Cancel

After you click on VLAN-IF1, the following screen will be shown:

**VLAN Interface Name List:**

Interface Name	VLAN-IF1
Vlan ID	1

Apply Cancel

**VLAN Interface Configuration:**

Mode: Ip Address

IP Address: 0.0.0.0

NetMask Address: 0.0.0.0

Override:

Add Refresh

**VLAN Interface List:**

Index	Ip	Mask
1	192.168.2.1	255.255.255.0

Modify Delete Cancel

Here you change the values for the IP address.

**Example 1: Change of new IP address in the same subnet.**

We are changing the management IP address from 192.168.2.1 to 192.168.2.10.

Provide the new values for the IP Address and Netmask Address. Activate the Override option.

**VLAN Interface Configuration:**

Mode: Ip Address

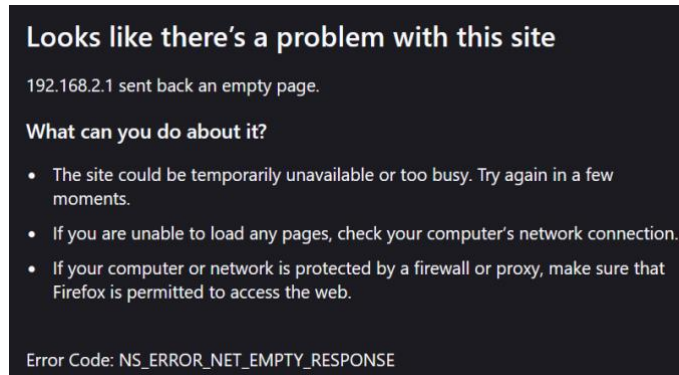
IP Address: 192.168.2.10

NetMask Address: 255.255.255.0

Override:

Add Refresh

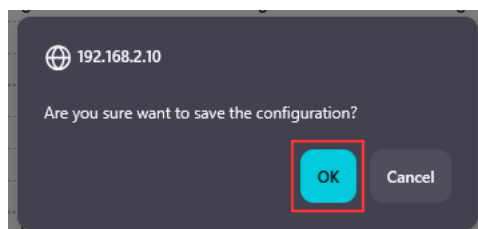
As soon as you click on 'Add', you will receive an error from the web browser, indicating that the page can no longer be displayed. The type of message varies depending on the web browser used.



Next, change the address in your web browser to <http://192.168.2.10>, and re-login.



To finalize the new IP settings, the configuration must be saved. If you do not do so, the IP address will revert to the default value after the switch is power cycled. Click on SAVE and OK.



**Example 2: Change of new IP address in a different subnet.**

We are changing the management IP address from 192.168.2.1 to 192.168.1.1. The netmask must be provided, and the Override option must not be selected. Click ADD when done.

**VLAN Interface Configuration:**

Mode	Ip Address ▾
IP Address	192.168.1.1
NetMask Address	255.255.255.0
Override	<input type="checkbox"/>

The screen reloads and you are now being shown the new IP scheme.

**VLAN Interface List:**

Index	Ip	Mask	Primary	Delete
1	192.168.2.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>
2	192.168.1.1	255.255.255.0	<input type="radio"/>	<input type="checkbox"/>

Select Index 2 as the new Primary and click on MODIFY.

**VLAN Interface List:**

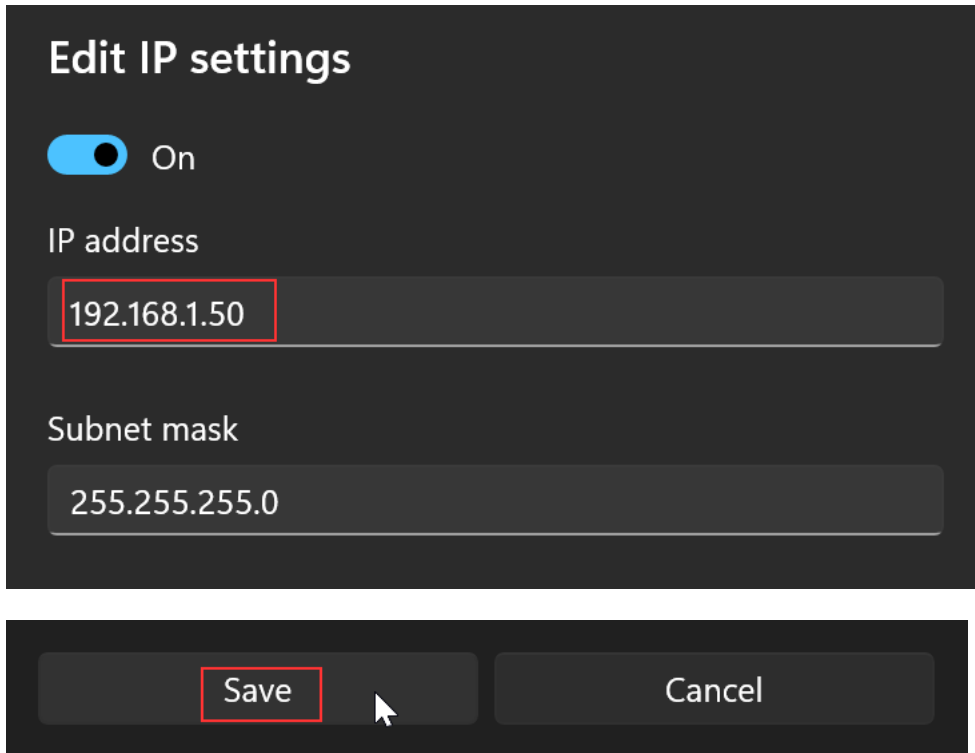
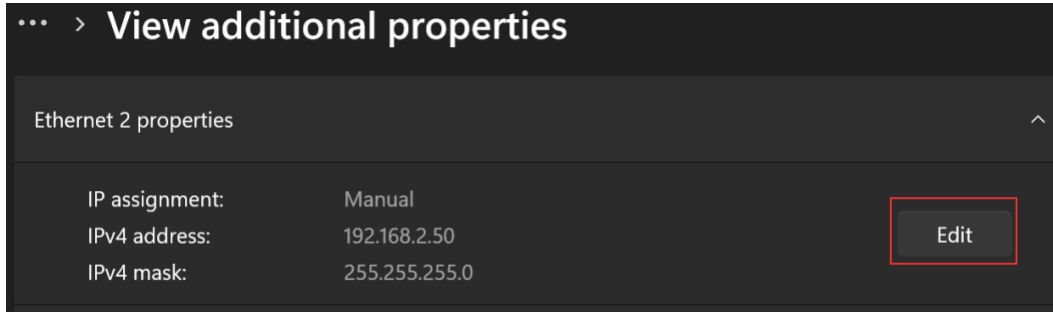
Index	Ip	Mask	Primary	Delete
1	192.168.2.1	255.255.255.0	<input type="radio"/>	<input type="checkbox"/>
2	192.168.1.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>

The screen reloads and shows that IP 192.168.1.1 is the new Index 1.

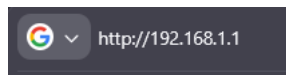
**VLAN Interface List:**

Index	Ip	Mask	Primary	Delete
1	192.168.1.1	255.255.255.0	<input checked="" type="radio"/>	<input type="checkbox"/>
2	192.168.2.1	255.255.255.0	<input type="radio"/>	<input type="checkbox"/>

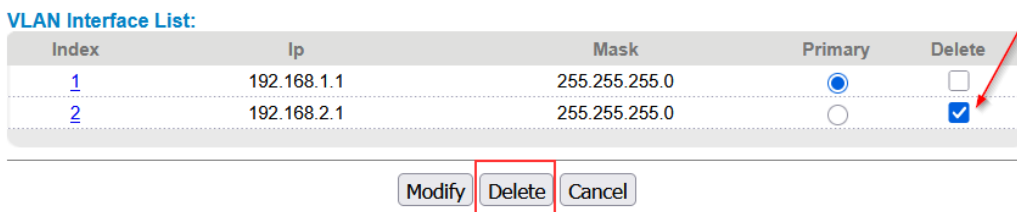
Next: We need to change the IP address of our computer’s network adapter to match the new IP scheme. This example shows how to do this in Windows 11. Open up the properties of the Ethernet adapter and change the IP address. In this case we are changing the IP address from 192.168.2.50 to 192.168.1.50



Now reconnect to the Intellinet Managed Switch at <http://192.168.1.1> and log in as usual.



Return to BASIC SETTING -> IP INFO -> VLAN IF1  
Mark Index 2 as DELETE and click DELETE.



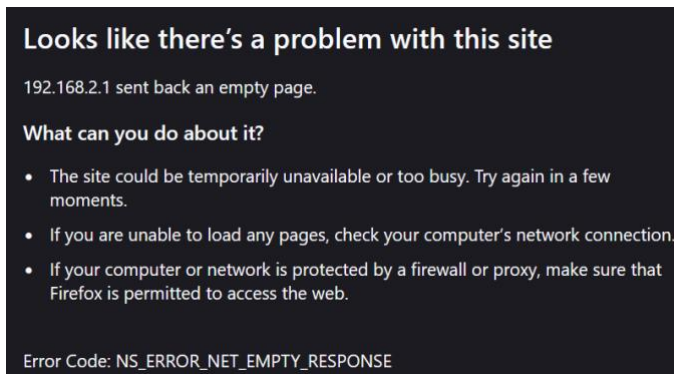
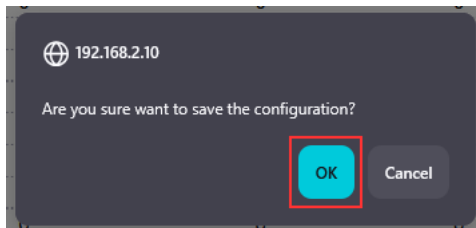
**VLAN Interface List:**

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

The new IP address 192.168.1.1 is now the primary Management IP Address of the switch.

To finalize the new IP settings, the configuration must be saved.

Click on SAVE and OK.



#### 4.1.3.4 DHCP Client Setup

If you want the management IP address to be obtained dynamically from a DHCP server in your network, this section explains how that is done. It is a multi-step process that may look daunting at first, but it is ultimately rather trivial.

Prerequisites:

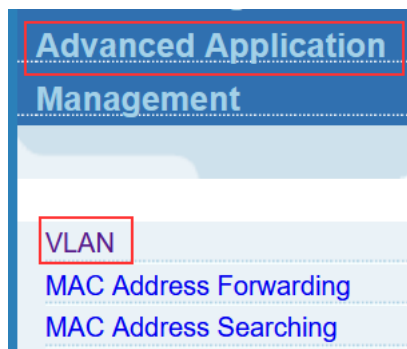
1) If you want to control which IP address the switch obtains from your DHCP server, you should first look up the Intellinet Switch MAC address on the system information page. You can use that MAC address in your DHCP server’s static DHCP settings.

System information settings	
Product description	Intellinet561341
Bootrom version	1.17
Software version	Intellinet561341 V01D01P02SP26
Product serialNo	2400022248000438
MAC address	30:b9:b0:00:fa:e4
IP address	192.168.2.1 <a href="#">Setting</a>
Subnet mask	255.255.255.0

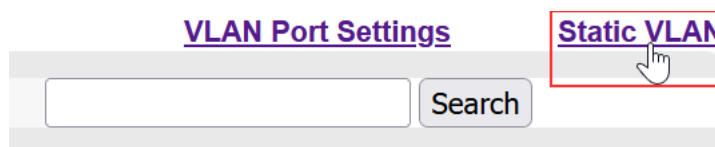
2) For the purpose of this example, if you want to follow along, connect your computer to port 1 on the Intellinet switch. Furthermore, set the IP address of your computer’s network adapter to a static value of 192.168.2.xxx, i.e, 192.168.2.50. Connect to the switch at <http://192.168.2.1> and log in as admin.

#### Step 1: Setting up a new VLAN

Open ADVANCED APPLICATION -> VLAN.



Click on Static VLAN



Add "2" to VLAN List and click Add.

Device1 Port Number <a href="#">[Click for changing or selecting]</a>								
2	4	6	8	10	12	14	16	18
U	U	U	U	U	U	U	U	U
U	U	U	U	U	U	U	U	U
1	3	5	7	9	11	13	15	17

Port Number [\[Select all: - \[None\] T \[Tagged\] U \[Untagged\]\]](#)

VLAN List	<input type="text" value="2"/>	Add	Delete
Name	<input type="text"/>	Modify	Cancel

This is the result:

**Current static VLAN**

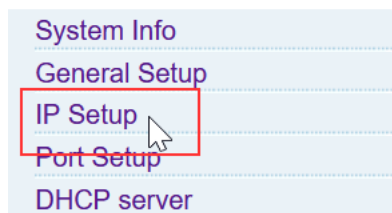
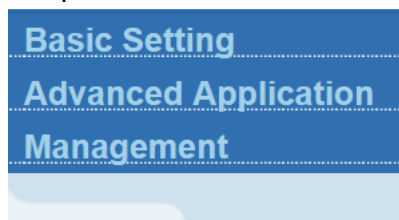
- 0001
- 0002

Device1 Port Number <a href="#">[Click for changing or selecting]</a>								
2	4	6	8	10	12	14	16	18
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1	3	5	7	9	11	13	15	17

Port Number [\[Select all: - \[None\] T \[Tagged\] U \[Untagged\]\]](#)

**Step 2: Setting up a new VLAN Interface**

Open BASIC SETTING -> IP Setup.



Add “2” to the field VLAN ID, then click ADD.

**Vlan Interface**
[VlanInterfaceConf](#)

**Creat:**

Interface	vlan-interface
Vlan ID	2

Add Cancel Clear

Click on “VLAN-IF2”.

**List:**

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	<a href="#">VLAN-IF1</a>	192.168.2.1	1	Up	<input type="checkbox"/>
2	<a href="#">VLAN-IF2</a>	None	2	Down	<input type="checkbox"/>

Delete Cancel

Next, we provide new IP information for the new VLAN. This step is temporary and only needed until we have enabled DHCP client. The Ip address must be in a different sub net than the primary IP address of VLAN-IF1. In our example, we are setting the IP address to 192.168.1.1.

**VLAN Interface Name List:**

Interface Name	VLAN-IF2
Vlan ID	2

Apply Cancel

**VLAN Interface Configuration:**

Mode	Ip Address
IP Address	192.168.1.1
NetMask Address	255.255.255.0
Override	<input type="checkbox"/>

Add Refresh

Click ADD when done. If done correctly, you will see this. If you do, you are ready to proceed to step 3.

**VLAN Interface 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

**Step 3: Changing port 1 to the new VLAN**

Open ADVANCED APPLICATION -> VLAN, then click on VLAN Port Settings.

**VLAN Port Settings**

Set the PVID for port 1 (GE0/0/1) to the value "2", then click APPLY.

Port	PVID	Acceptable Frame	Port Mode	Port GVRP	Ingress Check
*		All	Hybrid	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet 1000M Port					
GE0/0/1	2	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"/>

The screen reloads as follows:

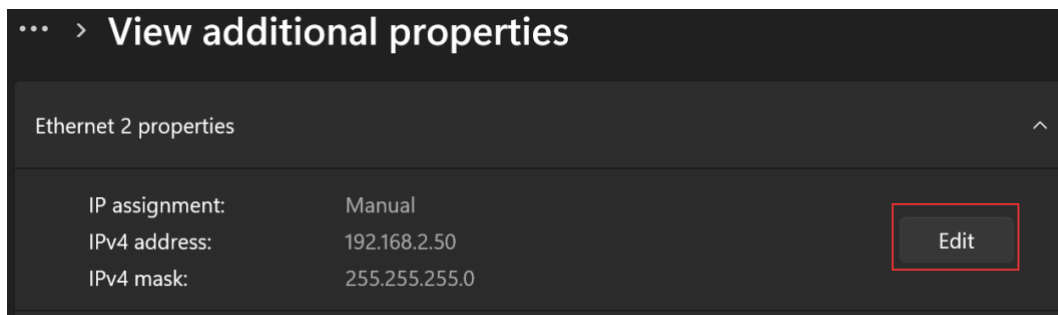
Port	PVID	Acceptable Frame	Port Mode	Port GVRP	Ingress Check
*		All	Hybrid	<input type="checkbox"/>	<input type="checkbox"/>
Ethernet 1000M Port					
GE0/0/1	2	All	Hybrid	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/2	1	All	Hybrid	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/3	1	All	Hybrid	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Proceed to step 4.

**Step 4: Reconnecting to the new VLAN and activate DHCP client.**

Open ADVANCED APPLICATION -> VLAN, then click on VLAN Port Settings.

Open up the properties of the Ethernet adapter and change the IP address to 192.168.1.50



### Edit IP settings

On

IP address

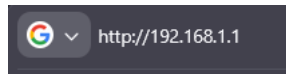
192.168.1.50

Subnet mask

255.255.255.0

Save Cancel

Now reconnect to the Intellinet Managed Switch at <http://192.168.1.1> and log in as usual.



Open BASIC SETTING -> IP Setup.  
Mark Index 1 VLAN-IF1 as DELETE, then click DELETE.

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	<a href="#">VLAN-IF1</a>	192.168.2.1	1	Up	<input checked="" type="checkbox"/>
2	<a href="#">VLAN-IF2</a>	192.168.1.1	2	Up	<input type="checkbox"/>

Delete Cancel

The screen reloads. Then. Under “Creat”, Click ADD.

Creat:

Interface

Vlan ID

Add Cancel Clear

Click on VLAN-IF1.

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	None	1	Down	<input type="checkbox"/>
2	VLAN-IF2	192.168.1.1	2	Up	<input type="checkbox"/>

Select mode = Dhcp.

**VLAN Interface Configuration:**

Mode Ip Address ▾

IP Address Ip Address

NetMask Address Bootp

Override Dhcp

Set the status to ENABLE and click APPLY.

**VLAN Interface Configuration:**

Mode Dhcp ▾

Status DISABLE ▾

ENABLE
DISABLE

Note: When you click APPLY, seemingly nothing happens. This is normal. Open BASIC SETTING -> IP Setup to check if an IP address has been obtained. This can take several minutes.

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	VLAN-IF1	10.10.10.90	1	Up	<input type="checkbox"/>
2	VLAN-IF2	192.168.1.1	2	Up	<input type="checkbox"/>

**Step 5: Finishing up**

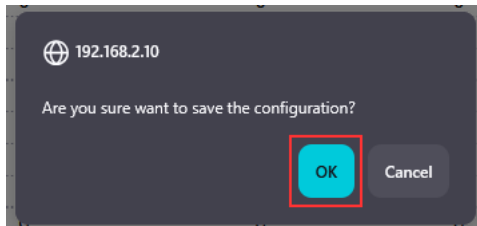
To finish up, you can re-assign port 1 to VLAN ID 1 (basically undoing the change made in step 3), and if you wish to eliminate the static management IP address, you can delete VLAN-IF2 from the screen shown above.

List:

Index	Name	Primary ipaddress	VLAN	Status	Delete
1	<a href="#">VLAN-IF1</a>	10.10.10.90	1	Up	<input type="checkbox"/>
2	<a href="#">VLAN-IF2</a>	192.168.1.1	2	Up	<input checked="" type="checkbox"/>

To save this new configuration permanently, you must perform these steps:

Click on SAVE and OK.



Failure to do so will result in the switch losing the configuration and you will have to repeat all steps. So please do save the configuration.

Finally, if you have multiple of these switches and wish to deploy them the same way, consider creating a backup of the configuration and then load it into the configuration of the switch. This can save you a lot of time.

### 4.1.4 Port Setup

To configure the related parameters of a port, select **Basic Setting>Port Setup** in the function menu bar.

The screenshot displays the 'Port Setup' configuration page. On the left, the navigation menu includes 'Basic Setting', 'Advanced Application', and 'Management'. Under 'Basic Setting', 'Port Setup' is selected. The main content area is titled 'Port basic settings' and shows configuration for 'Ethernet 1000M Port[1]'. At the top, there is a grid for selecting a 'Device1 Port Number' from 2 to 26. Below this, a configuration table for port GE0/0/1 is shown with fields for Status (enable), Link (down), Priority (0), Set speed (auto), Mode (auto), Actual speed (unknown), and Port description. A 'Refresh' button is present. At the bottom, a list of all ports from GE0/0/1 to GE0/1/2 is displayed with their respective status, link, priority, set speed, mode, and actual speed.

#### 【Parameter Description】

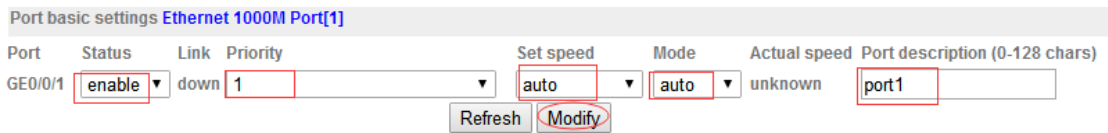
Parameter	Description
Port	Port number
Status	Choose whether to enable or disable the link port
Link	Status: down up
Priority	Set port priority in the range of 0 – 7
Set speed	Choose the following modes: 10/100 Mbps ports: full-10 half-10 auto-10 full-100 half-100 auto-100

Parameter	Description
	10/100/1000 Mbps ports: full-10 half-10 auto-10 full-100 half-100 auto-100 full-1000 half-1000 auto-1000 auto
Mode	Choose the following kinds: auto slave master
Actual speed	Displays the actual speed of the port
Port description	Describe the port.

**【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.



### 4.1.5 DHCP Server

To configure the DHCP server pool and DHCP server group, select **Basic Setting>DHCP Server** in the function menu bar.

The screenshot displays the configuration page for a DHCP server pool. On the left, a navigation menu lists various settings, with 'DHCP server' circled in red. The main area is titled 'DHCP server pool set' and contains several input fields: 'name', 'lease time' (with sub-fields for day, hour, and minute), 'Gate Address', 'Ip Mask', 'First DNS', and 'Secondary DNS'. Below these fields is a table titled 'list of assignable address:' with columns for 'number', 'start address', 'end address', and 'delete'. The table contains eight rows, numbered 0 through 7. At the bottom of the page, there are three buttons: 'Add', 'Delete', and 'Save'.

### 4.1.5.1 DHCP server pool set

To configure DHCP Server pool set, select **Basic Setting>DHCP server>DHCP server pool set** in the function menu bar.

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

ip pool	<input type="text"/>	lease time	0 day 0 hour 0 minute
name	<input type="text"/>	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"/>

#### 【Parameter Description】

Parameter	Description
ip pool	IP pool ID
name	Set the name of IP pool
lease time	Set lease time
Gate Address	Set gate address
Ip Mask	Set IP mask
First DNS	Set first DNS
Secondary DNS	Set secondary DNS
Start address	Set start address range
End address	Set end address range

### 4.1.5.2 DHCP server group set

To configure the DHCP Server group, select **Basic Setting>DHCP server>DHCP server group set** link to the right of the header.

#### 【Parameter Description】

Parameter	Description
group id	Provide the DHCP server group ID
IP address	Provide the DHCP server IP address

### 4.1.6 DHCP-Relay

To turn on the DHCP relay function, hide DHCP Server, and set the source IP used, select **Basic Setting>DHCP-Relay** in the function menu bar.

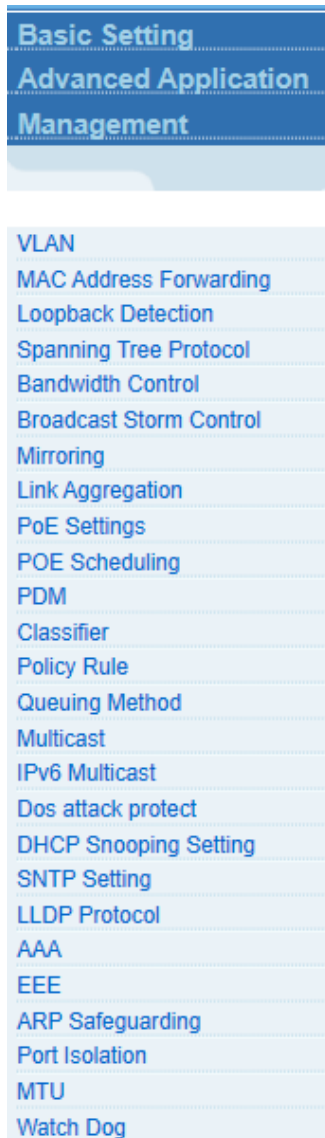
### 4.1.7 Port Information

To view port information, select **Basic Setting>Port Information** in the function menu bar.

Port	link Status	Receive bit/sec	Transmit bit/sec
GE0/0/1	down	0	0
GE0/0/2	up	6.37Kbps	24.11Kbps
GE0/0/3	down	0	0
GE0/0/4	down	0	0
GE0/0/5	down	0	0
GE0/0/6	down	0	0
GE0/0/7	down	0	0
GE0/0/8	down	0	0
GE0/0/9	down	0	0
GE0/0/10	down	0	0
GE0/0/11	down	0	0
GE0/0/12	down	0	0
GE0/0/13	down	0	0
GE0/0/14	down	0	0
GE0/0/15	down	0	0
GE0/0/16	down	0	0
GE0/0/17	down	0	0
GE0/0/18	down	0	0
GE0/0/19	down	0	0
GE0/0/20	down	0	0
GE0/0/21	down	0	0
GE0/0/22	down	0	0
GE0/0/23	down	0	0
GE0/0/24	down	0	0
GE0/1/1	down	0	0
GE0/1/2	down	0	0
Total		6.37Kbps	24.11Kbps

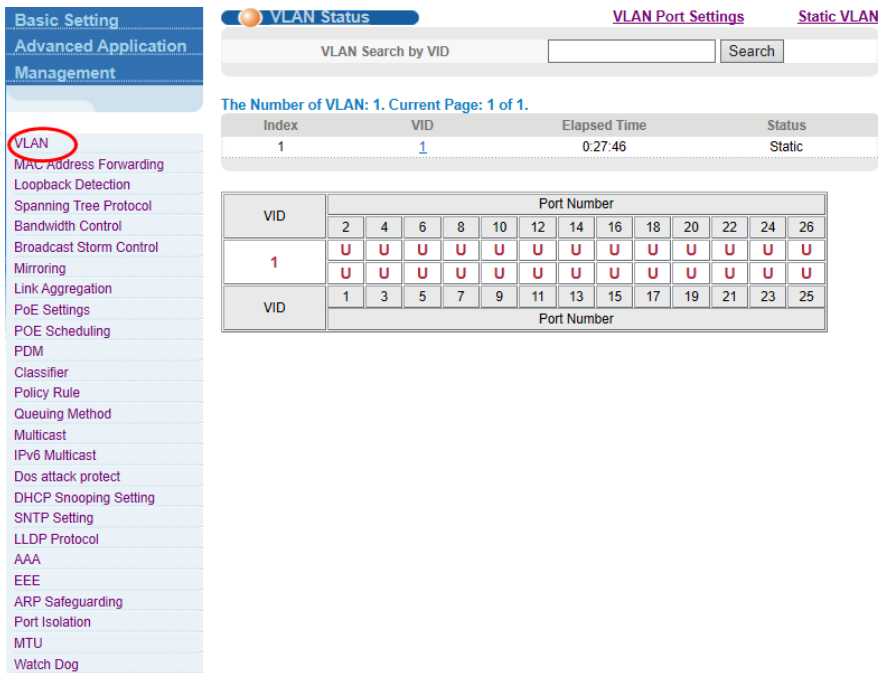
## 4.2 Advanced Application

Choose Advanced Application, and the function menu bar shows configuration web pages for **VLAN, MAC Address Forwarding, Loopback Detection, Spanning Tree Protocol, Bandwidth Control, Broadcast Storm Control, Mirroring, Link Aggregation, PoE Settings, PoE Scheduling, PDM, Classifier, Policy Rule, Queuing Method, Multicast, IPv6 Multicast, Dos attack protect, DHCP Snooping Setting, SNTP Setting, LLDP Protocol, AAA, EEE, ARP Safeguarding, Port Isolation, MTU, and Watch Dog.**



### 4.2.1 VLAN

To configure VLAN, select **Advanced Application>VLAN** in the function menu bar.



**【Information】**

Traditional Ethernet uses a common communication medium and is based on Carrier Sense Multiple Access/Collision Detect (CSMA/CD) data network communication protocol. Overloaded hosts in a LAN will cause major collisions, flooding broadcasts, subpar performance, or even the collapse of the Internet using standard Ethernet. While substantial collisions can be avoided by connecting LANs through switches, flooding broadcasts cannot be avoided because they consume a lot of bandwidth resources and could result in significant security issues.

A network topology called a Virtual Local Area Network (VLAN) is set up using a logical plan rather than a physical one. Switches use VLAN technology to manage broadcast in LANs. You can divide a physical LAN into several logical LANs, each with its own broadcast domain, by implementing VLANs. The communication between hosts on the same VLAN is similar to that of a LAN. However, hosts in separate VLANs are unable to directly connect with one another.

VLANs therefore restrict broadcast packets. Standard Ethernet is how hosts in the same VLAN communicate, while Layer 3 switches, routers, and other Internet-connected devices are the method of communication for hosts in separate VLANs.

### 4.2.1.1 VLAN Status

To view VLAN status, select **Advanced Application>VLAN>VLAN Status** in the function menu bar.

The screenshot shows the 'VLAN Status' page with a search bar and two tables. The search bar contains 'VLAN Search by VID' and a 'Search' button. Below it, a summary line reads 'The Number of VLAN: 1. Current Page: 1 of 1.' The first table lists VLAN details:

Index	VID	Elapsed Time	Status
1	1	0:27:46	Static

The second table is a grid showing port status for each port number (2-26) under each VID (1 and 2). The status for each port is indicated by a red 'U' (Up) or a grey 'U' (Down).

VID	Port Number												
	2	4	6	8	10	12	14	16	18	20	22	24	26
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
VID	Port Number												
	1	3	5	7	9	11	13	15	17	19	21	23	25

#### 【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】

View the VLAN of VID as 1.

This screenshot is similar to the previous one, but the search bar is highlighted with a red box, and the value '1' is entered in the input field. The rest of the page content, including the summary line and tables, remains the same.

### 4.2.1.2 VLAN Port Settings

To configure or adjust settings related to a VLAN port, select **Advanced Application>VLAN>VLAN Port Settings** in the function menu bar.

**VLAN Port Settings** Static VLAN VLAN Status

Global GVRP

permit vlan

PORT ID

port forbidden vlan

[Show Garp Information:](#)

Port	PVID	Acceptable Frame	Port Mode	Port GVRP	Ingress Check
*	<input type="text"/>	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<i>Ethernet 1000M Port</i>					
GE0/0/1	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/2	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/3	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/4	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/5	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/6	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/7	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/8	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/9	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/10	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/11	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/12	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/13	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/14	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/15	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/16	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/17	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/18	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/19	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/20	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/21	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/22	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/23	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/0/24	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/1/1	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GE0/1/2	1	All <input type="text"/>	Hybrid <input type="text"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### 【Parameter Description】

Parameter	Description
PVID (Port VLAN ID)	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:

Parameter	Description
	<p><b>Hybrid:</b> The port can be either a tagged member or untagged member in the VLAN and can be a member port for multiple VLANs. Used to connect switches to each other and to computers.</p> <p><b>Trunk:</b> The port can only be a tagged member in the VLAN and can be a member port for multiple VLANs. Typically used to connect switches to each other.</p> <p><b>Access:</b> port belongs to one VLAN. Common use is to connect computer ports. The port can only be an untagged member in the VLAN and the port can only be in one VLAN, not multiple.</p>
Port GVRP	Select enable or disable GVRP (a dynamic VLAN learning function); port mode must be Trunk mode.
Ingress Check	Enable port filtering function. If enabled, the port checks for a tagged message. If the message is untagged, it is disregarded. If disabled, all messages are allowed through.

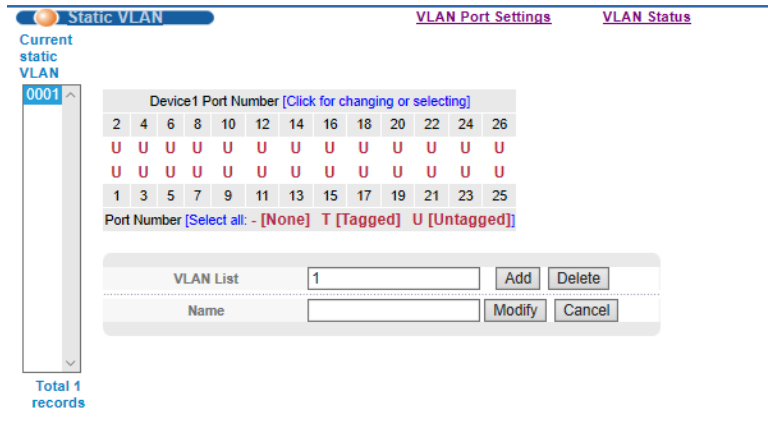
#### 【 Configuration example 】

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

### 4.2.1.3 Static VLAN

To configure a Static VLAN, select **Advanced Application>VLAN>Static VLAN** in the function menu bar.



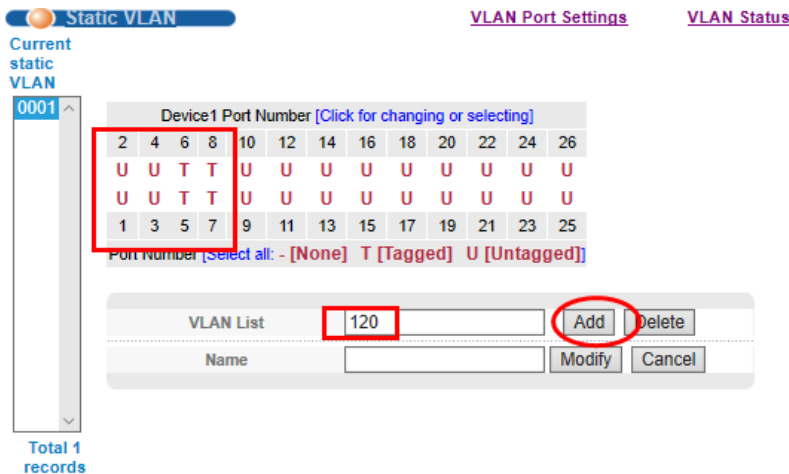
#### 【Parameter Description】

Parameter	Description
VLAN List	VLAN group ID
Name	VLAN group name

#### 【Configuration example】

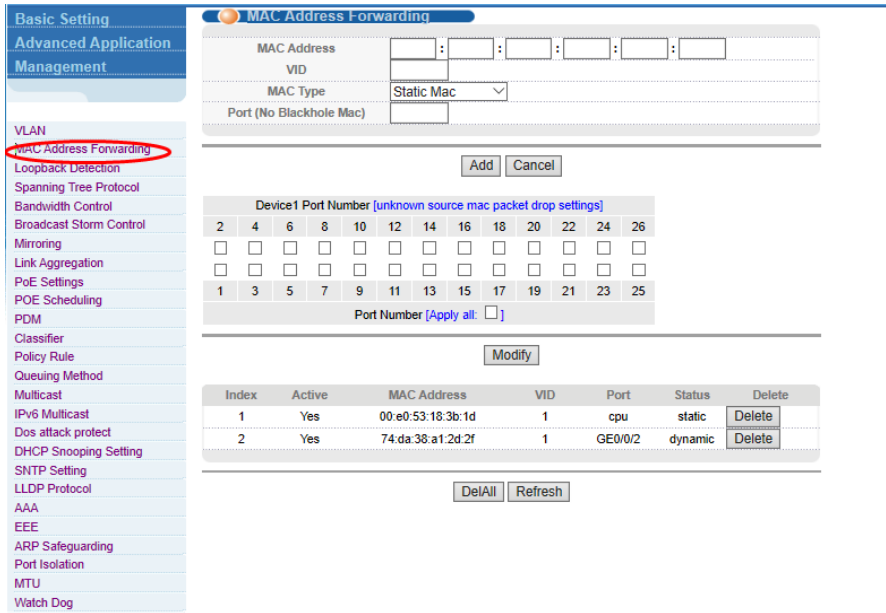
To add and delete VLAN members:

1. Click Advanced Application > VLAN> Static VLAN.
2. Add a new VLAN with VLAN Group ID (VLAN List) 120, which contains untagged member ports 1 – 4 and Tagged member ports 5 - 8. The user can modify the port member by clicking on the white area below the port number.
3. Click Apply.



## 4.2.2 MAC Address Forwarding

To configure MAC Address Forwarding, select **Advanced Application > MAC Address Forwarding** in the function menu bar.



### 【Parameter Description】

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

### 【Information】

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

### 【Configuration example】

1. Click Advanced Application > MAC Address Forwarding.
2. Provide the MAC address, VID, choose the MAC Type and enter port number for the blackhole MAC:

**MAC Address Forwarding**

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

3. Unknown source MAC packet drop settings.

Device1 Port Number [unknown source mac packet drop settings]

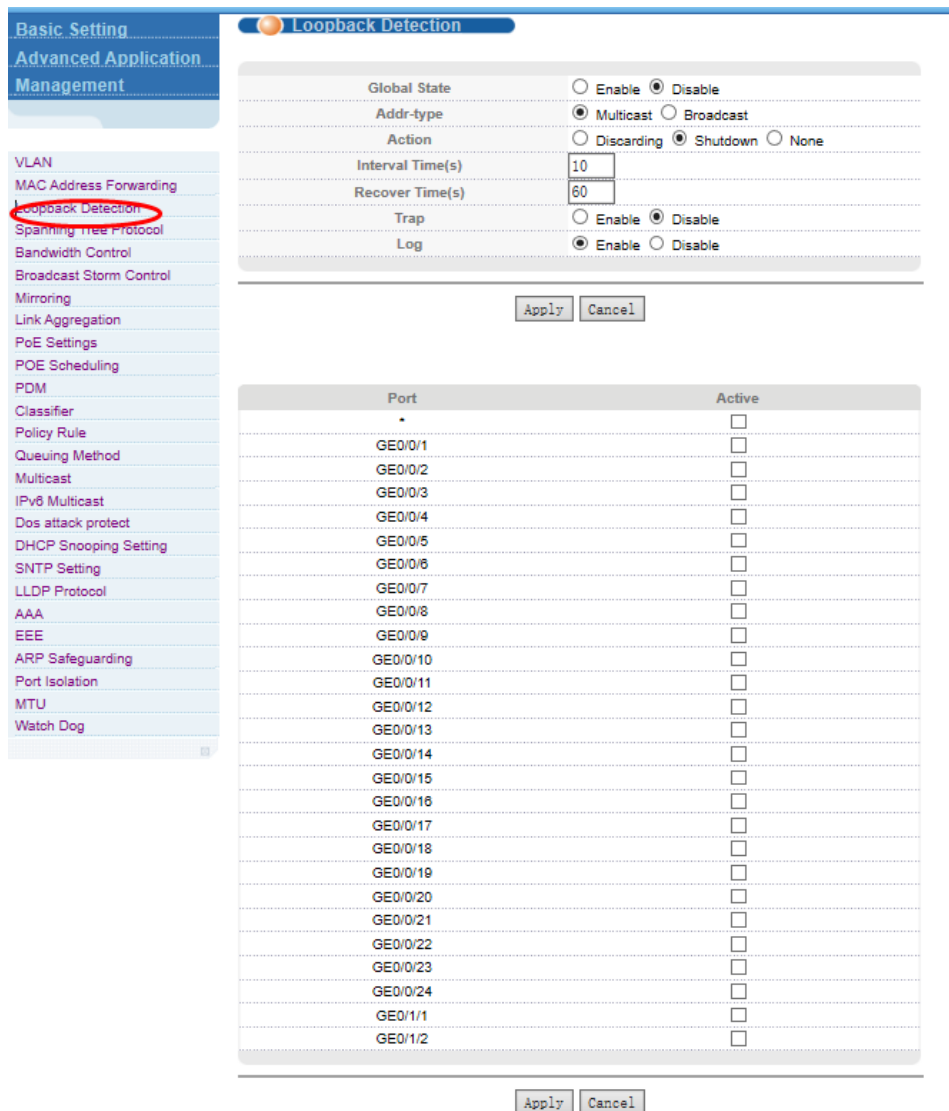
2	4	6	8	10	12	14	16	18	20	22	24	26
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	3	5	7	9	11	13	15	17	19	21	23	25

Port Number [Apply all:

4. Click Modify.

### 4.2.3 Loopback Detection (Part of our Self-Healing Network Suite of Features)

To configure Loopback Detection, select **Advanced Application>Loopback Detection** in the function menu bar. Loopback Detection allows the switch to detect loops in the network. When a loop is detected on a port, the switch will display an alert on the management interface and further block the corresponding port according to your configurations.



**【Parameter Description】**

Parameter	Description
Interval Times	Set the interval of sending loopback detection packets.

<b>Parameter</b>	<b>Description</b>
Recover Times	Set the recovery time globally

## 4.2.4 Spanning Tree Protocol (Part of our Self-Healing Network Suite of Features)

To configure Spanning Tree Protocol (STP), select **Advanced Application>Spanning Tree Protocol** in the function menu bar. According to the IEEE 802.1D standard, STP is used to create ring-free networks on the Data Link layer in a local network. A ring network can be separated from the network by using STP-enabled devices that identify loops and block ports from endlessly repeating and forwarding packets.

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

**Spanning Tree Protocol: RSTP**

Global Spanning Tree		Enable
Our Bridge ID		32768-00e0.5318.3b1d
Root Bridge ID		32768-00e0.5318.3b1d
Root Path Cost		0
Hello Time (second)		2
Max Age (second)		20
Forwarding Delay (second)		15
Topology Changed Times		0

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	200000	128	designatedPort	disabled
GE0/0/2	enable	20000	128	designatedPort	forwarding
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
GE0/0/15	enable	200000	128	designatedPort	disabled
GE0/0/16	enable	200000	128	designatedPort	disabled
GE0/0/17	enable	200000	128	designatedPort	disabled
GE0/0/18	enable	200000	128	designatedPort	disabled
GE0/0/19	enable	200000	128	designatedPort	disabled
GE0/0/20	enable	200000	128	designatedPort	disabled
GE0/0/21	enable	200000	128	designatedPort	disabled
GE0/0/22	enable	200000	128	designatedPort	disabled
GE0/0/23	enable	200000	128	designatedPort	disabled
GE0/0/24	enable	200000	128	designatedPort	disabled
GE0/1/1	enable	200000	128	designatedPort	disabled
GE0/1/2	enable	200000	128	designatedPort	disabled

#### 4.2.4.1 Spanning Tree Protocol Status

To view Spanning Tree Protocol status, select **Advanced Application>Spanning Tree Protocol>Spanning Tree Protocol Status** in the function menu bar.

Spanning Tree Protocol Status Configuration STP/RSTP MSTP

Spanning Tree Protocol: RSTP

Global Spanning Tree	Enable
Our Bridge ID	32768-00e0.5318.3b1d
Root Bridge ID	32768-00e0.5318.3b1d
Root Path Cost	0
Hello Time (second)	2
Max Age (second)	20
Forwarding Delay (second)	15
Topology Changed Times	0

Port	Active	Pathcost	Priority	Role	State
GE0/0/1	enable	200000	128	designatedPort	disabled
GE0/0/2	enable	20000	128	designatedPort	forwarding
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
GE0/0/15	enable	200000	128	designatedPort	disabled
GE0/0/16	enable	200000	128	designatedPort	disabled
GE0/0/17	enable	200000	128	designatedPort	disabled
GE0/0/18	enable	200000	128	designatedPort	disabled
GE0/0/19	enable	200000	128	designatedPort	disabled
GE0/0/20	enable	200000	128	designatedPort	disabled
GE0/0/21	enable	200000	128	designatedPort	disabled
GE0/0/22	enable	200000	128	designatedPort	disabled
GE0/0/23	enable	200000	128	designatedPort	disabled
GE0/0/24	enable	200000	128	designatedPort	disabled
GE0/1/1	enable	200000	128	designatedPort	disabled
GE0/1/2	enable	200000	128	designatedPort	disabled

#### 【Parameter Description】

Parameter	Description
Root Path Cost	Configure Root Path Cost
Hello time (second)	Send Bridge Protocol Data Unit (BPDU) in packet interval
Max age (second)	Topology changes are initiated for ports that have not received a message in the time specified
Forwarding delay (second)	The state of the port switch time
Topology changed times	The number of topology changes

#### 4.2.4.2 Spanning Tree Configuration

To configure Spanning Tree, select **Advanced Application>Spanning Tree Protocol>Spanning Tree configuration** in the function menu bar.

#### **【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 Enable or Disable

### 4.2.4.3 Compatible/Rapid Spanning Tree Protocol

To configure Compatible/Rapid Spanning Tree Protocol, select **Advanced Application>Spanning Tree Protocol>Compatible/Rapid Spanning Tree Protocol** in the function menu bar.

Compatible/Rapid Spanning Tree Protocol		Status
Bridge Priority	32768	
Hello Time	2	Seconds
MAX Age	20	Seconds
Forwarding Delay	15	Seconds

(Notice:When the port is a member of an aggregation group, the configuration is based on the maximum port configuration of the member.)

Port	Active	Priority	Path Cost	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	20000	<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"/>
GE0/0/17	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/18	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/19	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/20	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/21	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/22	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/23	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/24	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/1/1	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/1/2	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>

Apply Cancel

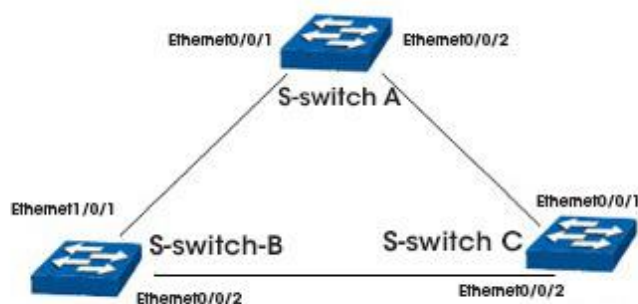
#### 【Parameter Description】

Parameter	Description
Bridge Priority	Set bridge priority, the default instance bridge priority for 32768
Hello Time	Send Bridge Protocol Data Unit (BPDU) in packet interval
Max Age	The time the switch will wait before initiating topology changes for ports that have not received a message
Forwarding Delay	The state of the port switch time
Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

**【Configuration example】**

As shown in the figure, configure Switch-A as the root bridge and S-switch-B as the designated Bridge.

The links connected by S-switch-B and S-switch-C are backup links. When the links connected by S-switch-B, S-switch-A and S-switch-C fail, the backup link will come into effect.

**S-switch-A Configuration :**

1. Configure Ethernet0/0/1 and Ethernet0/0/2 as a trunk port.
2. Configure spanning-tree priority as 0.
3. Enable RSTP globally.

**S-switch-B Configuration :**

1. Configure Ethernet0/0/1 and Ethernet0/0/2 as a trunk port.
2. Configure spanning-tree priority as 4096, and configure the Ethernet0/0/1 port path cost and the Ethernet0/0/2 port path cost as 10.
3. Enable RSTP globally.

**S-switch-C Configuration :**

1. Configure Ethernet0/0/1 and Ethernet0/0/2 as a trunk port.
2. Configure the Ethernet0/0/1 port path cost and Ethernet0/0/2 port path cost as 10 to ensure that the link between Switch-B and Switch-C is the main link.
3. Enable RSTP globally.

#### 4.2.4.4 Multiple Spanning Tree Protocol

To configure Multiple Spanning Tree Protocol, select **Advanced Application>Spanning Tree Protocol>Multiple Spanning Tree Protocol** in the function menu bar.

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	

Apply Cancel

---

**Instance:**

Instance	0
Bridge Priority	32768
VLAN Range	

Apply Remove Cancel

---

**Show Mstp Instance Information:**

Port	Active	External Path Cost	External Cost Default	Priority	Inner Path Cost	Inner Cost Default
*	<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>
GE0/0/1	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/2	<input checked="" type="checkbox"/>	20000	<input checked="" type="checkbox"/>	128	20000	<input checked="" type="checkbox"/>
GE0/0/3	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/4	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/5	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/6	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/7	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/8	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/9	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/10	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/11	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/12	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/13	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/14	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/15	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/16	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/17	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/18	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/19	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/20	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/21	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/22	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/23	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/0/24	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/1/1	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>
GE0/1/2	<input checked="" type="checkbox"/>	200000	<input checked="" type="checkbox"/>	128	200000	<input checked="" type="checkbox"/>

Apply Cancel

#### 【Parameter Description】

Parameter	Description
Hello Time	Send BPDU in packet interval
Max age	The time the switch will wait before initiating topology changes for ports that have not received a message

Parameter	Description
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
Priority	Set port instance priority, defaults to 128
Path Cost	Configure port costs

## 4.2.5 Bandwidth Control

To configure Bandwidth Control, select **Advanced Application>Bandwidth Control** in the function menu bar.

Port	Ingress Rate(unit: 16kbps)	Egress Rate(unit: 16kbps)
*	<input type="text"/>	<input type="text"/>
GE0/0/1	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/2	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/3	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/4	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/5	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/6	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/7	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/8	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/9	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/10	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/11	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/12	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/13	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/14	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/15	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/16	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/17	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/18	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/19	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/20	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/21	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/22	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/23	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/0/24	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/1/1	<input type="text" value="0"/>	<input type="text" value="0"/>
GE0/1/2	<input type="text" value="0"/>	<input type="text" value="0"/>

**[Information]**

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】**

Configure bandwidth control for port 8.

1. Click Basic Setting > Bandwidth Control.
2. Configure port-8 Ingress Rate as 64 kbps and the Egress Rate as 128 kbps.

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

3. Click Apply.

**4.2.6 Broadcast Storm Control**

To configure Broadcast Storm Control, select **Advanced Application>Broadcast Storm Control** in the function menu bar.

Basic Setting | **Broadcast Storm Control**

storm-suppression mode:

Apply

Port	Broadcast(unit:pps)	Multicast(unit:pps)	Unicast(unit:pps)
*	pps	pps	pps
GE0/0/1	0	0	0
GE0/0/2	0	0	0
GE0/0/3	0	0	0
GE0/0/4	0	0	0
GE0/0/5	0	0	0
GE0/0/6	0	0	0
GE0/0/7	0	0	0
GE0/0/8	0	0	0
GE0/0/9	0	0	0
GE0/0/10	0	0	0
GE0/0/11	0	0	0
GE0/0/12	0	0	0
GE0/0/13	0	0	0
GE0/0/14	0	0	0
GE0/0/15	0	0	0
GE0/0/16	0	0	0
GE0/0/17	0	0	0
GE0/0/18	0	0	0
GE0/0/19	0	0	0
GE0/0/20	0	0	0
GE0/0/21	0	0	0
GE0/0/22	0	0	0
GE0/0/23	0	0	0
GE0/0/24	0	0	0
GE0/1/1	0	0	0
GE0/1/2	0	0	0

Refresh Apply Cancel

**【Parameter Description】**

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

### 【Information】

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 for port 1.

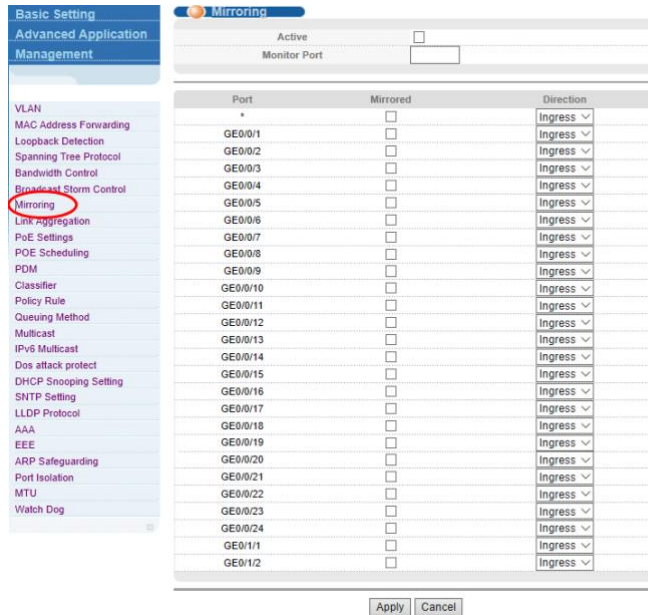
1. Click Basic Setting > Broadcast Storm Control.
2. Set port 1 broadcast as 6400 pps, multicast as 3200 pps, and unicast as 3200 pps.

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

3. Click Apply.

## 4.2.7 Mirroring

To configure mirroring, select **Advanced Application>Mirroring** in the function menu bar.



### 【Parameter Description】

Parameter	Description
Active	Select to enable or disable 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. Enable mirroring; the monitoring port is port 8, the source port is port 7, and the mirror message is in both directions.
3. Click Apply.

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**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 ▼

## 4.2.8 Link Aggregation

To configure link aggregation, select **Advanced Application>Link Aggregation** in the function menu bar. With the LAG (Link Aggregation Group) function enabled, 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
Advanced Application Management		Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status
VLAN		T1	-	-	-	-	-
MAC Address Forwarding		T2	-	-	-	-	-
Loopback Detection		T3	-	-	-	-	-
Spanning Tree Protocol		T4	-	-	-	-	-
Bandwidth Control		T5	-	-	-	-	-
Broadcast Storm Control		T6	-	-	-	-	-
Mirroring		T7	-	-	-	-	-
Link Aggregation		T8	-	-	-	-	-
PoE Settings							
POE Scheduling							
PDM							
Classifier							
Policy Rule							
Queuing Method							
Multicast							
IPv6 Multicast							
Dos attack protect							
DHCP Snooping Setting							
SNTP Setting							
LLDP Protocol							
AAA							
EEE							
ARP Safeguarding							
Port Isolation							
MTU							
Watch Dog							

### 4.2.8.1 Link Aggregation status

To view link aggregation status, Group ID, Enabled Ports, Synchronized Ports, Aggregator ID, Criteria, and overall Status, select **Advanced Application>Link Aggregation>Link Aggregation Status** in the function menu bar.

Link Aggregation Status		Link Aggregation Setting				
Group ID	Enabled Ports	Synchronized Ports	Aggregator ID	Criteria	Status	
T1	-	-	-	-	-	
T2	-	-	-	-	-	
T3	-	-	-	-	-	
T4	-	-	-	-	-	
T5	-	-	-	-	-	
T6	-	-	-	-	-	
T7	-	-	-	-	-	
T8	-	-	-	-	-	

### 4.2.8.2 Link Aggregation Setting

To set Link Aggregation, select **Advanced Application>Link Aggregation>Link Aggregation Setting** in the function menu bar.

Link Aggregation Setting
Status LAC

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 ▼
GE0/1/1	none ▼	active ▼
GE0/1/2	none ▼	active ▼

#### 【Parameter Description】

Parameter	Description
Group ID	Add the port to the specified Aggregation Group ID
Port LACP mode	Configure port aggregation (active/passive)

### 4.2.8.3 Link Aggregation Control Protocol

To configure Link Aggregation Control Protocol, select **Advanced Application>Link Aggregation>Link Aggregation Control Protocol** in the function menu bar.

Link Aggregation Control Protocol
Link Aggregation Setti

System Priority

Load-balance Mode

Group ID	Active	Eth-trunk Mode
T1	<input type="checkbox"/>	static
T2	<input type="checkbox"/>	static
T3	<input type="checkbox"/>	static
T4	<input type="checkbox"/>	static
T5	<input type="checkbox"/>	static
T6	<input type="checkbox"/>	static
T7	<input type="checkbox"/>	static
T8	<input type="checkbox"/>	static

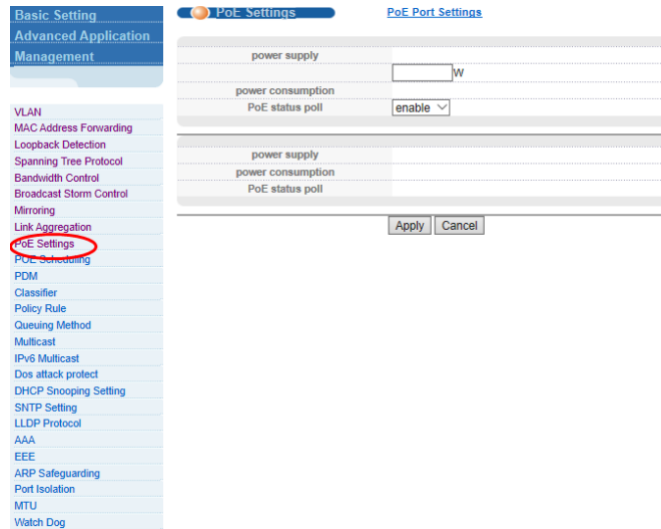
Port	Port Priority
GE0/0/1	128
GE0/0/2	128
GE0/0/3	128
GE0/0/4	128
GE0/0/5	128
GE0/0/6	128
GE0/0/7	128
GE0/0/8	128
GE0/0/9	128
GE0/0/10	128
GE0/0/11	128
GE0/0/12	128
GE0/0/13	128
GE0/0/14	128
GE0/0/15	128
GE0/0/16	128
GE0/0/17	128
GE0/0/18	128
GE0/0/19	128
GE0/0/20	128
GE0/0/21	128
GE0/0/22	128
GE0/0/23	128
GE0/0/24	128
GE0/1/1	128
GE0/1/2	128

#### 【Parameter Description】

Parameter	Description
System priority	Aggregation group system priority, the default is 32768 (the range is 1 - 65535)
Load-balance Mode	Configure the Aggregation Group load balancing (src-mac/dst-mac/src-dst-mac/src-ip/dst-ip/src-dst-ip)

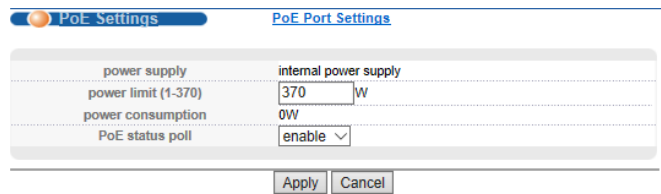
## 4.2.9 PoE Settings (excludes 508834, where PoE is not supported)

To adjust settings for PoE, select **Advanced Application>PoE Settings**.



### 4.2.9.1 PoE Settings

To configure PoE, select **Advanced Application>PoE Settings**.

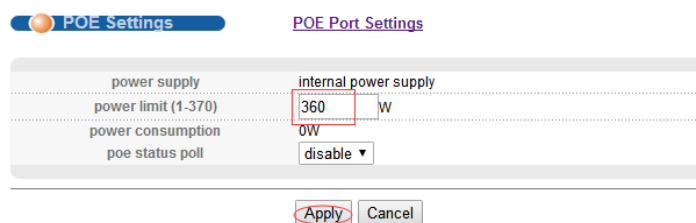


#### 【Parameter Description】

Parameter	Description
power limit	Set the limit for the overall power of PoE switch

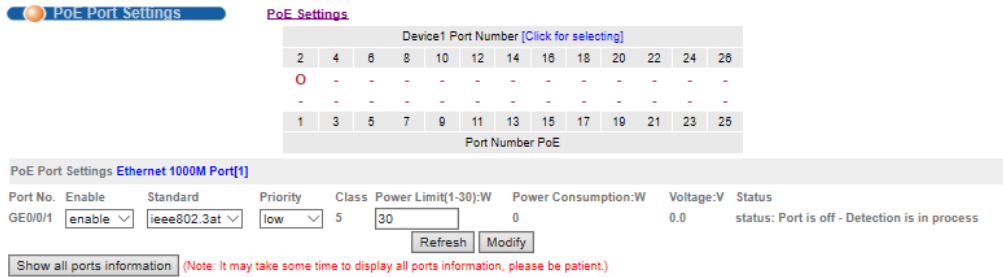
#### 【Configuration example】

Set the power limit to 360 W.



### 4.2.9.2 PoE Port Settings

To configure settings for a PoE Port, select **Advanced Application>PoE Settings>PoE Port Settings** in the function menu bar.

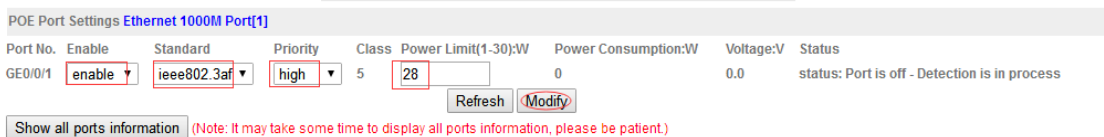


#### 【Parameter Description】

Parameter	Description
Enable	Turn the port PoE power on and off; the default is enabled
Standard	Configure IEEE 802.3af or IEEE 802.3at mode; the default is IEEE 802.3at
Priority	Configure port priority as low, critical, high; the default priority is low
Power limit	Set the power limit of PoE port

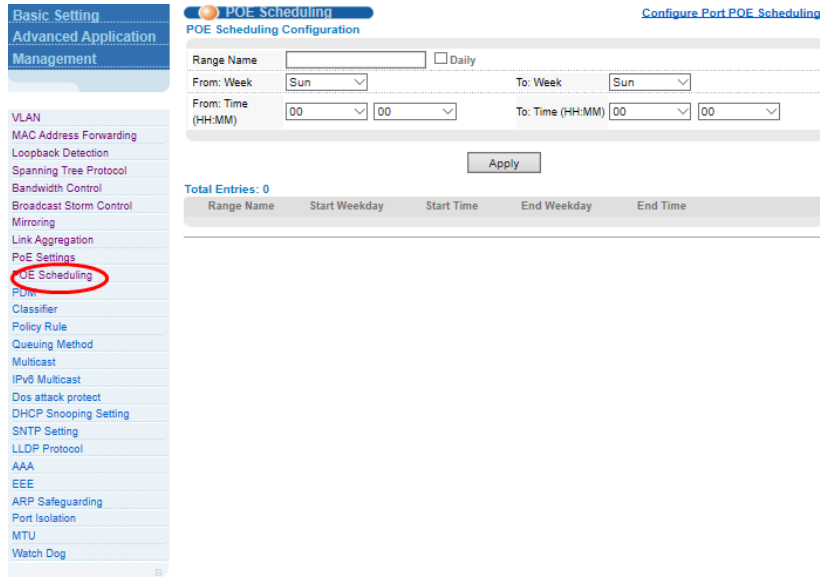
#### 【Configuration example】

Configure the PoE for port 1.



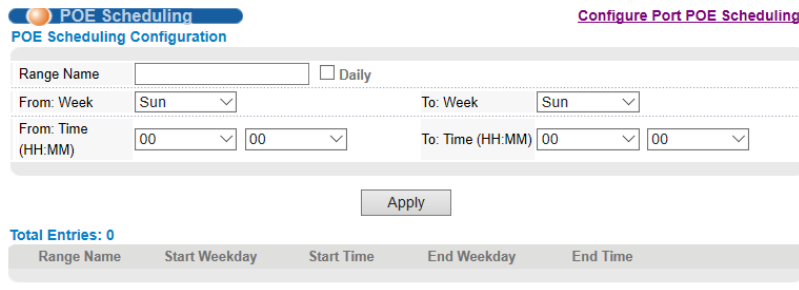
## 4.2.10 PoE Scheduling (Part of our Self-Healing Network Suite of Features)

To configure PoE Scheduling, select **Advanced Application>PoE Scheduling**.



### 4.2.10.1 PoE Scheduling

To configure PoE Scheduling, select **Advanced Application>PoE Scheduling**.



#### 【Parameter Description】

Parameter	Description
Range Name	Set the name for the schedule
From: Week	Set the start day
To: Week	Set the end day
From: Time (HH:MM)	Set the start time
To: Time (HH:MM)	Set the end time

**【Configuration example】**

Set Range Name 1 with the values shown.

POE Scheduling Configuration

Range Name: 1  Daily

From: Week: MON To: Week: Thurs

From: Time (HH:MM): 08:30 To: Time (HH:MM): 18:00

Apply

**4.2.10.2 Configure Port PoE Scheduling**

To configure Port PoE Scheduling, select **Advanced Application>PoE Scheduling>Configure Port PoE Scheduling** in the function menu bar.

Configure Port PoE Scheduling

Port PoE Scheduling Configuration

From Port: eth1 To Port: eth1

POE Scheduling: None

Apply

Port	POE Scheduling
eth1	Delete POE Scheduling
eth2	Delete POE Scheduling
eth3	Delete POE Scheduling
eth4	Delete POE Scheduling
eth5	Delete POE Scheduling
eth6	Delete POE Scheduling
eth7	Delete POE Scheduling
eth8	Delete POE Scheduling
eth9	Delete POE Scheduling
eth10	Delete POE Scheduling
eth11	Delete POE Scheduling
eth12	Delete POE Scheduling
eth13	Delete POE Scheduling
eth14	Delete POE Scheduling
eth15	Delete POE Scheduling
eth16	Delete POE Scheduling
eth17	Delete POE Scheduling
eth18	Delete POE Scheduling
eth19	Delete POE Scheduling
eth20	Delete POE Scheduling
eth21	Delete POE Scheduling
eth22	Delete POE Scheduling
eth23	Delete POE Scheduling
eth24	Delete POE Scheduling

**【Parameter Description】**

Parameter	Description
From Port	Set the start port
To Port	Set the end port

**【Configuration example】**

Configure PoE from Port 1 to Port 16.

Configure Port PoE Scheduling

Port PoE Scheduling Configuration

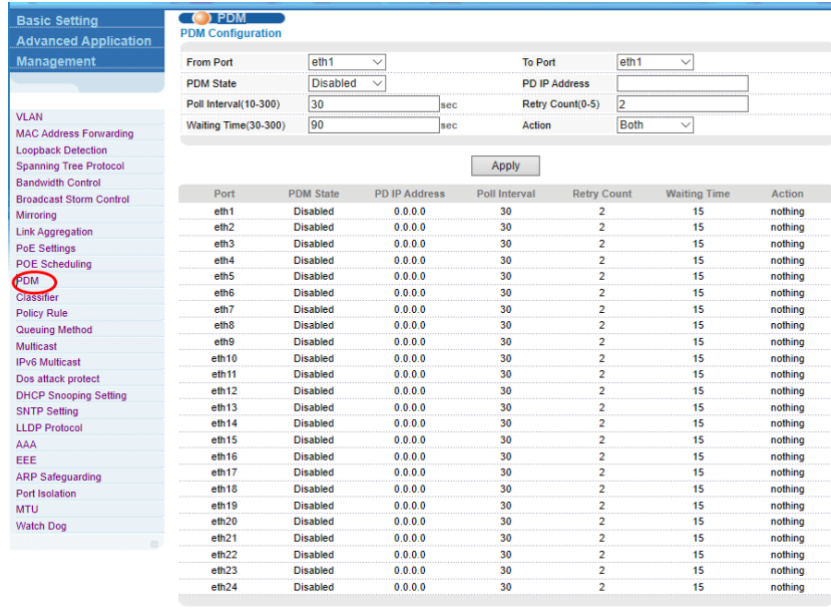
From Port: eth1 To Port: eth16

POE Scheduling: None

Apply

### 4.2.11 PDM (Part of our Self-Healing Network Suite of Features)

To configure the Powered Device Monitor (PDM) which restarts “down” devices, select **Advanced Application>PDM**.

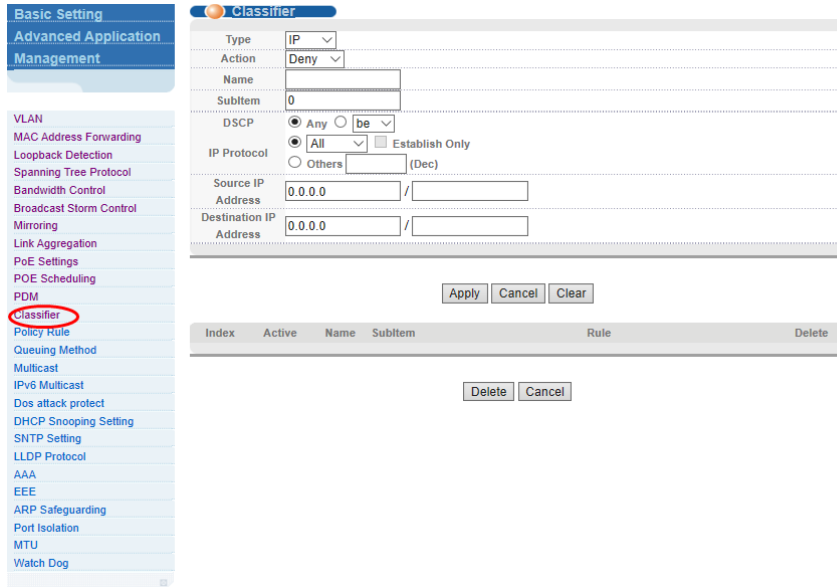


#### 【Parameter Description】

Parameter	Description
From Port	Set the start port
To Port	Set the end port
PDM State	Set the PDM State (disabled and enabled)
Poll Interval	Set the poll interval, range 10 - 300 s
Retry Count	Set the retry count, range 0 - 5
Waiting Time	Set the waiting time, range 30 - 300 s
Action	Set the Action (Reset/Notify/Both)

## 4.2.12 Classifier

To configure Classifier, select **Advanced Application>Classifier** in the function menu bar.

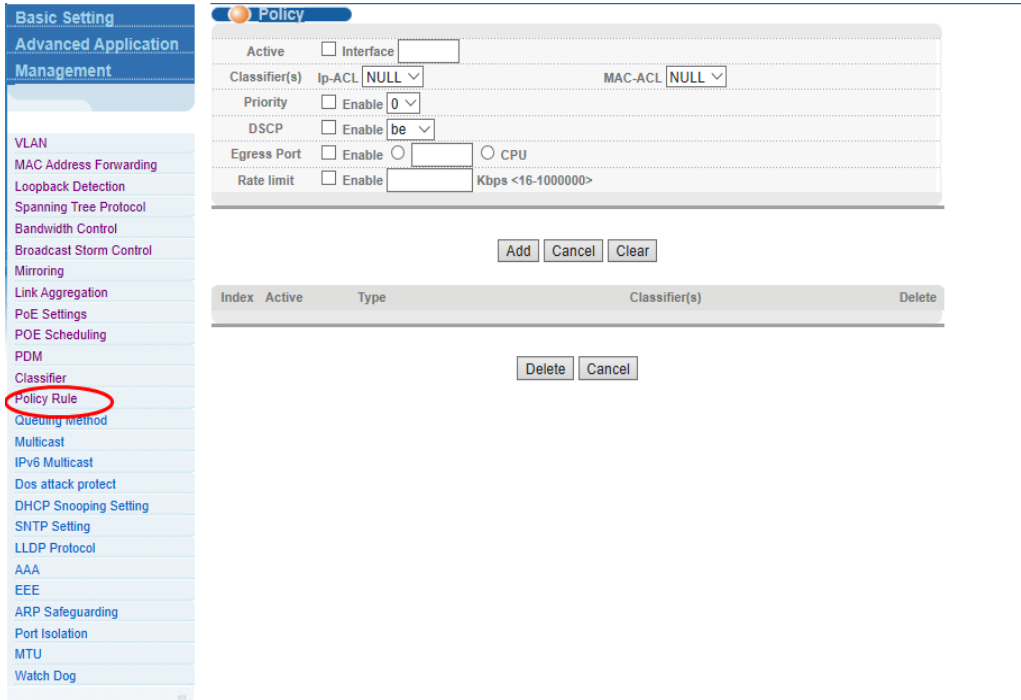


### 【Parameter Description】

Parameter	Description
Action	Deny or Permit
Type	IP or MAC
Action	Permit or Deny

## 4.2.13 Policy Rule

To configure Policy Rule, select **Advanced Application>Policy Rule** in the function menu bar.

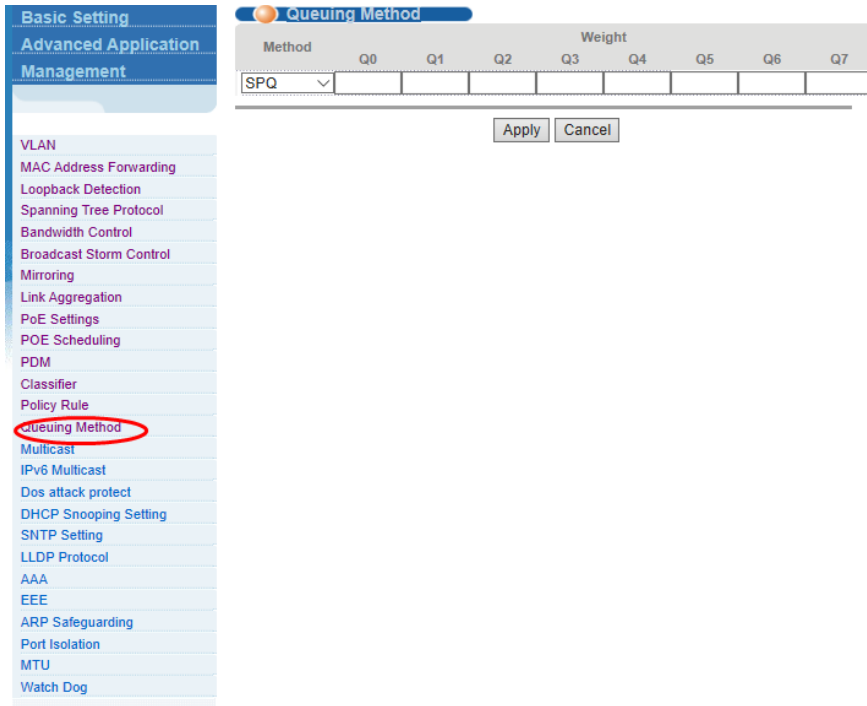


### 【Parameter Description】

Parameter	Description
Active	Activate Classifier
Classifier(s)	Note: Classification rules must match
Priority	Choose whether to enable priority and set priority
DSCP	Choose whether to enable DSCP
Egress Port	Choose whether to enable an egress port and set
Rate limit	Choose whether to enable a rate limit and set

## 4.2.14 Queuing Method

To configure queuing method, select **Advanced Application>Queuing Method** in the function menu bar.



### 【Parameter Description】

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

### 【Information】

- Strict-Priority (SP) and Weighted Round Robin (WRR).

#### 1. Strict Priority Queueing

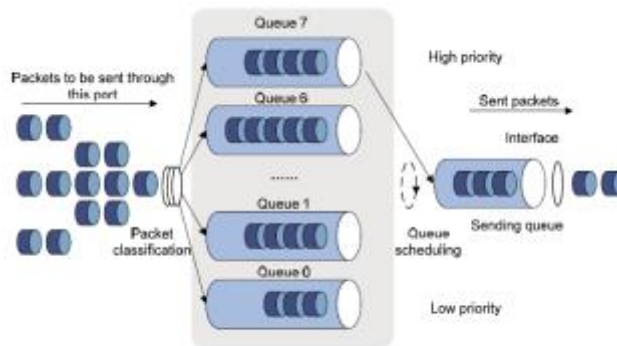
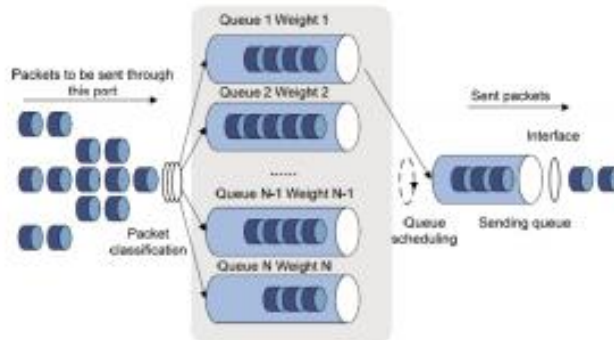


Diagram for SP queuing

Strict Priority Queueing is specially designed to meet the demands of critical services or applications. Critical services or applications such as voice are delay-sensitive and thus require to be dequeued and sent first before packets in other queues are dequeued on a congested network. For example, four egress queues 3, 2, 1 and 0 with descending priority are configured on a port. Under the SP algorithm, the port strictly prioritizes packets from a higher-priority queue over those from a lower-priority queue. Namely, only after packets in the highest-priority queue are emptied can packets in a lower-priority queue be forwarded. Therefore, high-priority packets are always processed before those of less priority. Medium-priority packets are always processed before low-priority packets. The lowest-priority queue is serviced only when highest-priority queues had no packets buffered. Disadvantages of SP: The SP queueing method gives absolute priority to high-priority packets over low-priority traffic, so it should be used with care. The moment a higher-priority packet arrives in its queue, servicing of the lower-priority packets is interrupted in favor of the higher-priority queue; packets can also be dropped if the amount of high-priority traffic is too great to be emptied within a short time.

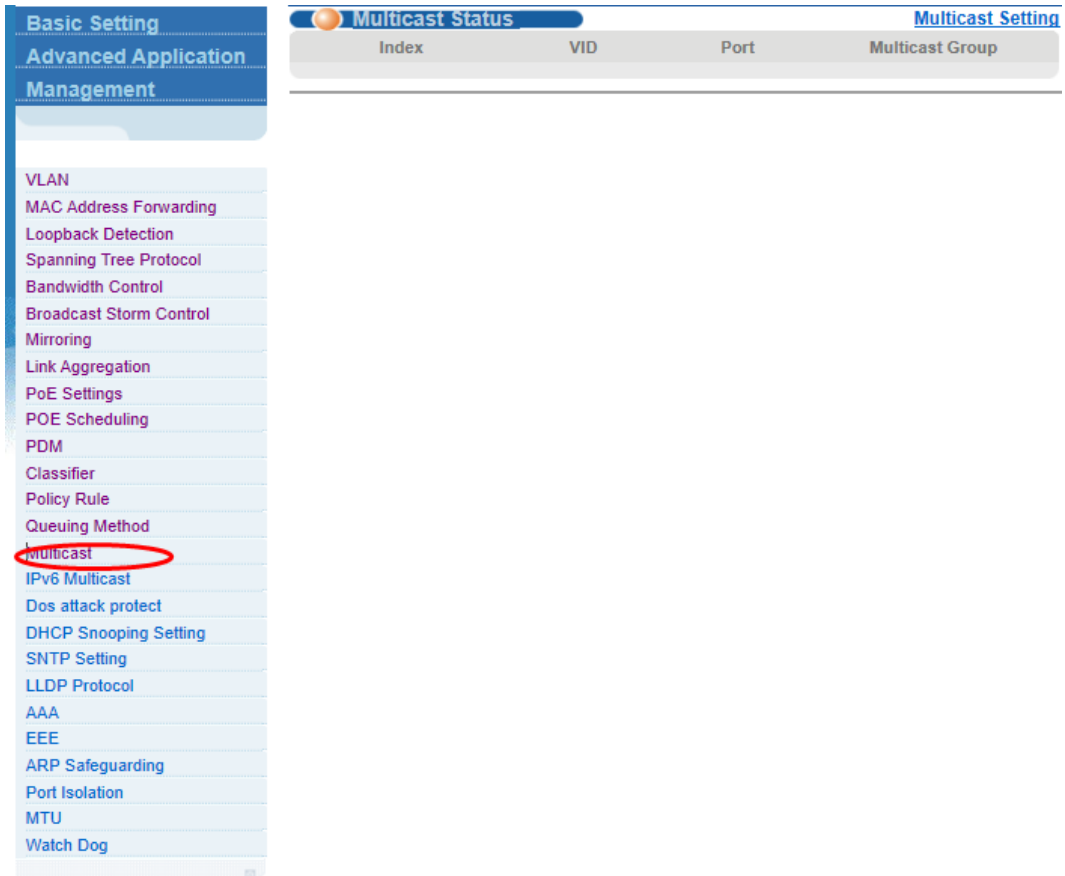
## 2. Weighted Round Robin



The WRR queue-scheduling algorithm ensures every queue receives guaranteed service time by taking turns according to a schedule determined by weighted values. Assume a 100-M port has four egress queues with four weight values  $w_3$ ,  $w_2$ ,  $w_1$  and  $w_0$  and the corresponding values 25, 15, 5 and 5 that reflect the proportion of resources assigned to those four queues. The queue with the lowest priority can be assured of receiving at least 10 Mbps bandwidth, which avoids the disadvantage of the SP algorithm where packets in low-priority queues may not be served for long periods of time. Another advantage of the WRR algorithm is that, though the queues are scheduled in turn, the service time for each queue is not fixed. That is, when a queue is emptied, the next queue is scheduled for service. Therefore, bandwidth resources are more fully utilized.

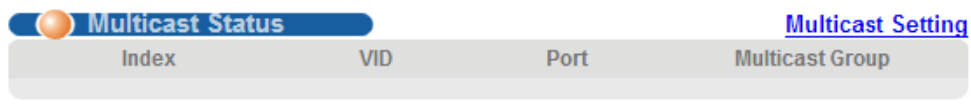
## 4.2.15 Multicast

To configure Multicast, select **Advanced Application>Multicast** in the function menu bar.



### 4.2.15.1 Multicast Status

To view all multicast, including the static configuration and the multicast that is learned through the IGMP-Snooping protocol, select **Advanced Application>Multicast>Multicast Status** in the function menu bar.



### 4.2.15.2 Multicast Settings

To set multicast, select **Advanced Application>Multicast>Multicast Settings** in the function menu bar.

Multicast Setting

Multicast Status Deny VLAN IGMP Filtering Profile

IGMP Snooping:

Active

Querier

Host Timeout  seconds

IGMP Route Port Forward

Port Information:

Port	Max Group Limit	Fast Leave	Multicast Vlan	IGMP Filtering Profile
*		<input type="checkbox"/>		
GE0/0/1	506	<input type="checkbox"/>	0	
GE0/0/2	506	<input type="checkbox"/>	0	
GE0/0/3	506	<input type="checkbox"/>	0	
GE0/0/4	506	<input type="checkbox"/>	0	
GE0/0/5	506	<input type="checkbox"/>	0	
GE0/0/6	506	<input type="checkbox"/>	0	
GE0/0/7	506	<input type="checkbox"/>	0	
GE0/0/8	506	<input type="checkbox"/>	0	
GE0/0/9	506	<input type="checkbox"/>	0	
GE0/0/10	506	<input type="checkbox"/>	0	
GE0/0/11	506	<input type="checkbox"/>	0	
GE0/0/12	506	<input type="checkbox"/>	0	
GE0/0/13	506	<input type="checkbox"/>	0	
GE0/0/14	506	<input type="checkbox"/>	0	
GE0/0/15	506	<input type="checkbox"/>	0	
GE0/0/16	506	<input type="checkbox"/>	0	
GE0/0/17	506	<input type="checkbox"/>	0	
GE0/0/18	506	<input type="checkbox"/>	0	
GE0/0/19	506	<input type="checkbox"/>	0	
GE0/0/20	506	<input type="checkbox"/>	0	
GE0/0/21	506	<input type="checkbox"/>	0	
GE0/0/22	506	<input type="checkbox"/>	0	
GE0/0/23	506	<input type="checkbox"/>	0	
GE0/0/24	506	<input type="checkbox"/>	0	
GE0/1/1	506	<input type="checkbox"/>	0	
GE0/1/2	506	<input type="checkbox"/>	0	

Apply Cancel

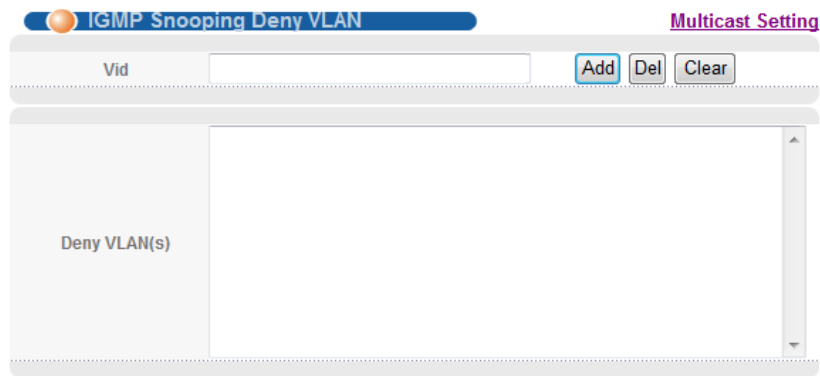
#### 【Parameter Description】

Parameter	Description
Active	Enable IGMP snooping
Querier	Enable IGMP snooping timed query function
Host Timeout	Configure the dynamic group sowing time (default 300 s)
IGMP Route Port Forward	Enable IGMP Route Port Forward
Max Group Limit	Max learning group of configuration port (default 1020)

Parameter	Description
Fast Leave	Enable 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 by the broadcast group that is allowed in the group broadcast preview and cannot be learned by the multicast group, which is forbidden by the group broadcast preview

### 4.2.15.3 IGMP Snooping Deny VLAN

To preview the banned group broadcast group that is unable to learn the multicast group which is prohibited by the group preview, select **Advanced Application>Multicast>IGMP Snooping Deny VLAN** in the function menu bar.

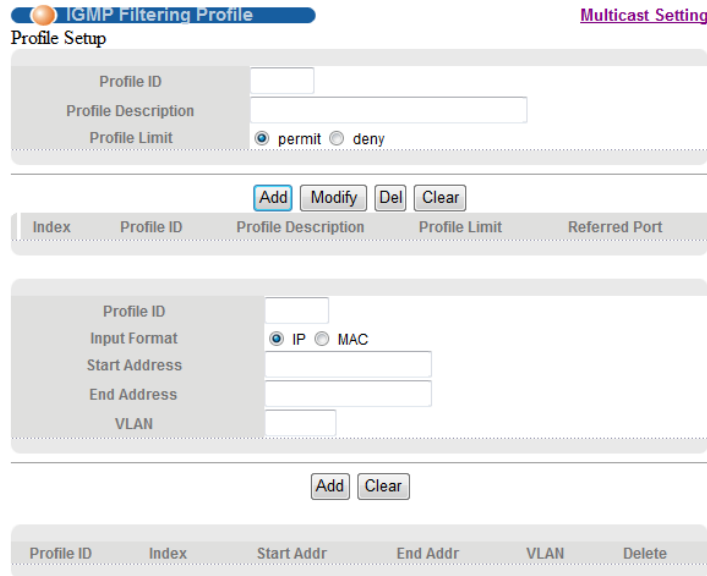


**【Parameter Description】**

Parameter	Description
Vid	VLAN ID

#### 4.2.15.4 IGMP Filtering Profile

To add and remove the preview feature of the modified group, select **Advanced Application>Multicast>IGMP Filtering Profile** in the function menu bar.

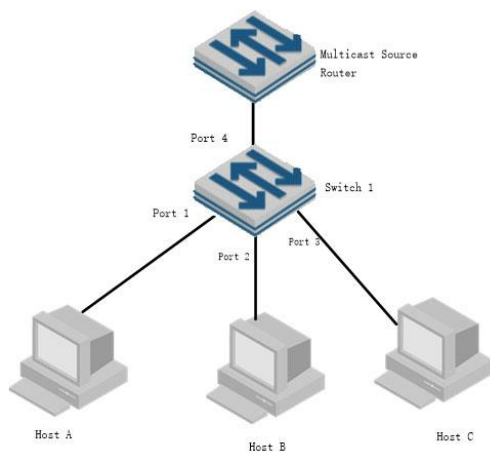


#### 【Parameter Description】

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

#### 【Configuration example】

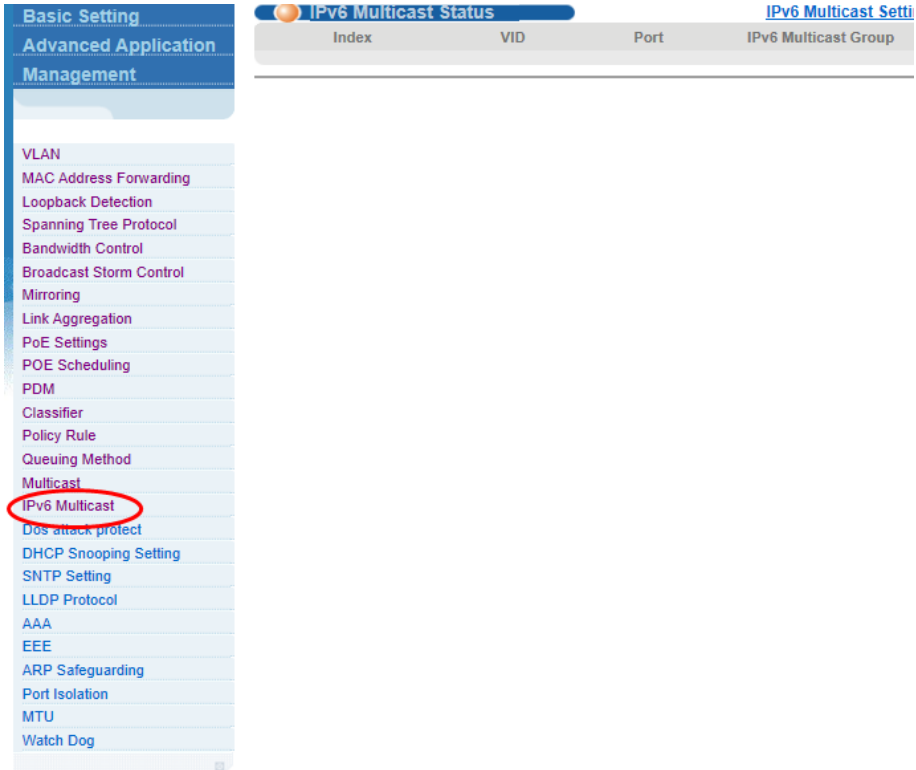
As shown in the figure, host-A, host-B and host-C belong to VLAN2, VLAN3 and VLAN4, respectively. The configuration enables the three hosts to receive the data of the multicast group with the group address of 224.0.1.1 – 224.0.1.3.



1. Enable IGMP Snooping.
2. Add different ports to different VLANs.
3. The host sends the report message to the switch, and the switch learns the multicast group.
4. The multicast source router sends a query message to the switch, which will learn the routing port table entry.
5. The multicast source router sends a multicast traffic stream to the switch and the switch distributes it to the hosts.

## 4.2.16 IPv6 Multicast

To configure IPv6 Multicast, select **Advanced Application>IPv6 Multicast** in the function menu bar.



### 4.2.16.1 IPv6 Multicast Status

To view all IPv6 multicast groups, select **Advanced Application>IPv6 Multicast>IPv6 Multicast Status** in the function menu bar.



### 4.2.16.2 IPv6 Multicast Setting

To configure IPv6 Multicast, select **Advanced Application>IPv6 Multicast>IPv6 Multicast Setting** in the function menu bar.

IPv6 Multicast Setting
IPv6 Multicast Status
Deny VLAN

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	506	<input type="checkbox"/>	0
GE0/0/2	506	<input type="checkbox"/>	0
GE0/0/3	506	<input type="checkbox"/>	0
GE0/0/4	506	<input type="checkbox"/>	0
GE0/0/5	506	<input type="checkbox"/>	0
GE0/0/6	506	<input type="checkbox"/>	0
GE0/0/7	506	<input type="checkbox"/>	0
GE0/0/8	506	<input type="checkbox"/>	0
GE0/0/9	506	<input type="checkbox"/>	0
GE0/0/10	506	<input type="checkbox"/>	0
GE0/0/11	506	<input type="checkbox"/>	0
GE0/0/12	506	<input type="checkbox"/>	0
GE0/0/13	506	<input type="checkbox"/>	0
GE0/0/14	506	<input type="checkbox"/>	0
GE0/0/15	506	<input type="checkbox"/>	0
GE0/0/16	506	<input type="checkbox"/>	0
GE0/0/17	506	<input type="checkbox"/>	0
GE0/0/18	506	<input type="checkbox"/>	0
GE0/0/19	506	<input type="checkbox"/>	0
GE0/0/20	506	<input type="checkbox"/>	0
GE0/0/21	506	<input type="checkbox"/>	0
GE0/0/22	506	<input type="checkbox"/>	0
GE0/0/23	506	<input type="checkbox"/>	0
GE0/0/24	506	<input type="checkbox"/>	0
GE0/1/1	506	<input type="checkbox"/>	0
GE0/1/2	506	<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

Parameter	Description
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】**

**IPv6 Multicast Setting** [IPv6 Multicast Status](#) [Deny VLAN](#)

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="text"/>	<input type="checkbox"/>	<input type="text"/>
GE0/0/1	<input type="text" value="507"/>	<input checked="" type="checkbox"/>	<input type="text" value="1"/>
----	----	----	----

### 4.2.16.3 MLD Snooping Deny VLAN

To configure MLD Snooping Deny VLAN, select **Advanced Application>IPv6 Multicast>MLD Snooping Deny VLAN** in the function menu bar.

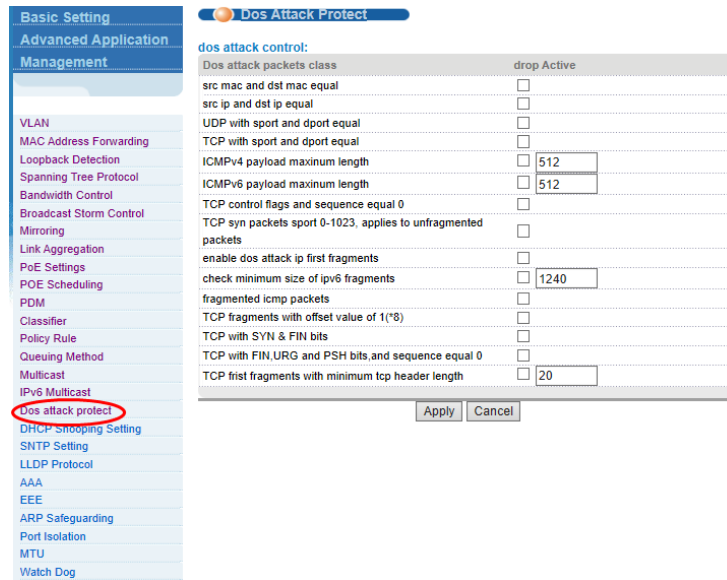
The screenshot shows a web interface for configuring MLD Snooping Deny VLAN. At the top, there is a blue header with the text 'MLD Snooping Dney VLAN' and a purple link 'IPv6 Multicast Setting'. Below the header, there is a 'Vid' input field followed by 'Add', 'Del', and 'Clear' buttons. A large, empty text area labeled 'Deny VLAN(s)' is positioned below the input field.

#### 【Parameter Description】

Parameter	Description
Vid	VLAN ID


### 4.2.17 DoS Attack Protect

To configure DoS Attack Protect, select **Advanced Application>Dos Attack Protect** in the function menu bar.

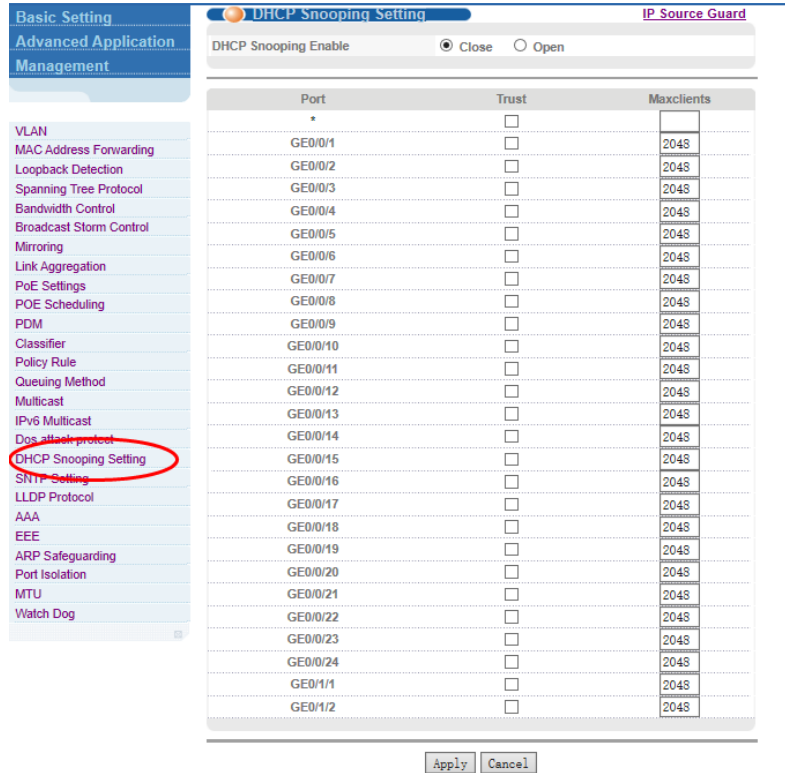


#### 【Parameter Description】

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

## 4.2.18 DHCP Snooping Setting

To configure DHCP Snooping, select **Advanced Application>DHCP Snooping Setting** in the function menu bar.



### 4.2.18.1 DHCP Snooping Setting

To configure DHCP Snooping, select **Advanced Application>DHCP Snooping Setting>DHCP Snooping Setting** in the function menu bar. Today’s networks can be large and complicated. If the number of wireless network devices exceeds the number of assigned or available IP addresses or if a wireless device’s location changes, it becomes necessary to update the corresponding IP address. One way to do this is through Dynamic Host Configuration Protocol (DHCP), the network configuration protocol optimized and developed based on BOOTP.

**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
GE0/0/22	<input type="checkbox"/>	2048
GE0/0/23	<input type="checkbox"/>	2048
GE0/0/24	<input type="checkbox"/>	2048
GE0/1/1	<input type="checkbox"/>	2048
GE0/1/2	<input type="checkbox"/>	2048

Apply Cancel

**【Parameter Description】**

Parameter	Description
DHCP Snooping Enable	Enable or disable DHCP Snooping
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

### 4.2.18.2 IP Source Guard

To configure IP Source Guard, select **Advanced Application>DHCP Snooping Setting>IP Source Guard** in the function menu bar.

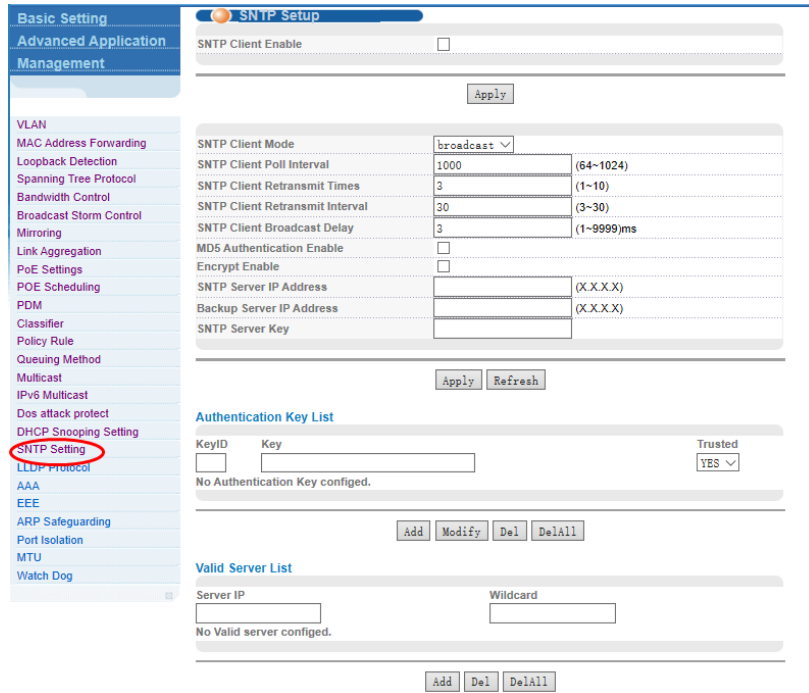
The screenshot displays the configuration page for IP Source Guard. At the top, there are tabs for 'IP-Source-Guard' and 'DHCP Snooping Setting'. The main area is titled 'System security settings' and contains a table with two columns: 'Port' and 'Mode'. The 'Port' column lists various GE ports from GE0/0/1 to GE0/1/2. The 'Mode' column shows a dropdown menu for each port, all currently set to 'Disable'. Below the table are 'modify' and 'cancel' buttons. A section titled 'Add IP-MAC-PORT-VLAN binding entry' includes input fields for IP Address, MAC Address (in H:H:H:H:H:H format), Port, and VLAN ID, along with a 'bindadmin' button. Below this is an 'add' and 'cancel' button. A 'Binding table' is shown with columns for IP Address, MAC Address, Port, VLAN ID, Binding status, and Delete, and a 'Refresh' button.

#### 【Parameter Description】

Parameter	Description
Mode	Setting the Mode (Disable, IP, IP+MAC, IP+MAC+VLAN)

## 4.2.19 SNTP Setting

To configure SNTP, select **Advanced Application>SNTP Setting** in the function menu bar.



### 【Parameter Description】

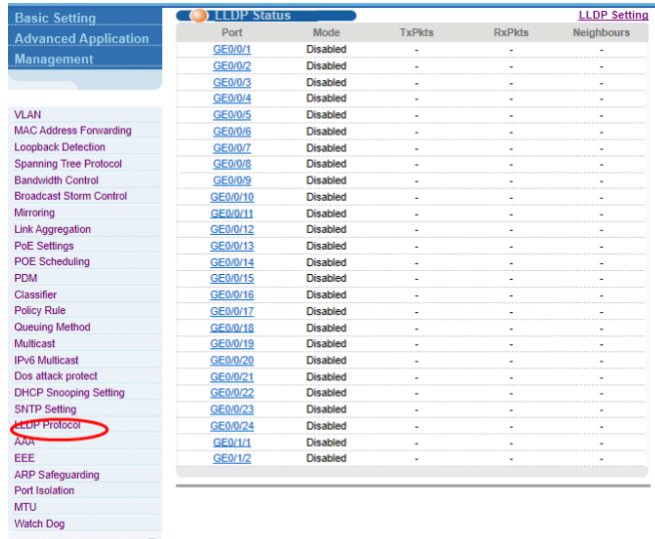
Parameter	Description
SNTP Client Enable	Enable or disable SNTP Client
SNTP Client Mode	SNTP Client Mode: broadcast, anycast, multicast, unicast
SNTP Client Poll Interval	The interval that SNTP Client sends requests to the SNTP Server
SNTP Client Retransmit Times	If SNTP Client does not receive a response within a certain period after sending a request, it will resend the request until the number of retransmissions exceeds the set value
SNTP Client Retransmit Interval	The interval that SNTP Client resends requests to the SNTP Server
SNTP Client Broadcast Delay	Set SNTP Client Broadcast Delay times
MD5 Authentication Enable	Enable or disable MD5 Authentication
Encrypt Enable	Enable or disable Encrypt
SNTP Server IP Address	Set SNTP Server IP Address
Backup Server IP Address	Set Backup Server IP Address
SNTP Server Key	Set SNTP Server Key

**【Information】**

SNTP Client receives and transmits messages from any SNTP Server when the work mode of the 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).

## 4.2.20 LLDP Protocol

To configure LLDP, select **Advanced Application>LLDP Protocol** in the function menu bar.



### 4.2.20.1 LLDP Status

To view LLDP status, select **Advanced Application>LLDP Protocol>LLDP Status** in the function menu bar.

Port	Mode	TxPkts	RxPkts	Neighbours
<a href="#">GE0/0/1</a>	Disabled	-	-	-
<a href="#">GE0/0/2</a>	Disabled	-	-	-
<a href="#">GE0/0/3</a>	Disabled	-	-	-
<a href="#">GE0/0/4</a>	Disabled	-	-	-
<a href="#">GE0/0/5</a>	Disabled	-	-	-
<a href="#">GE0/0/6</a>	Disabled	-	-	-
<a href="#">GE0/0/7</a>	Disabled	-	-	-
<a href="#">GE0/0/8</a>	Disabled	-	-	-
<a href="#">GE0/0/9</a>	Disabled	-	-	-
<a href="#">GE0/0/10</a>	Disabled	-	-	-
<a href="#">GE0/0/11</a>	Disabled	-	-	-
<a href="#">GE0/0/12</a>	Disabled	-	-	-
<a href="#">GE0/0/13</a>	Disabled	-	-	-
<a href="#">GE0/0/14</a>	Disabled	-	-	-
<a href="#">GE0/0/15</a>	Disabled	-	-	-
<a href="#">GE0/0/16</a>	Disabled	-	-	-
<a href="#">GE0/0/17</a>	Disabled	-	-	-
<a href="#">GE0/0/18</a>	Disabled	-	-	-
<a href="#">GE0/0/19</a>	Disabled	-	-	-
<a href="#">GE0/0/20</a>	Disabled	-	-	-
<a href="#">GE0/0/21</a>	Disabled	-	-	-
<a href="#">GE0/0/22</a>	Disabled	-	-	-
<a href="#">GE0/0/23</a>	Disabled	-	-	-
<a href="#">GE0/0/24</a>	Disabled	-	-	-
<a href="#">GE0/1/1</a>	Disabled	-	-	-
<a href="#">GE0/1/2</a>	Disabled	-	-	-

### 4.2.20.2 LLDP Setting

To configure LLDP, select **Advanced Application>LLDP Protocol>LLDP Setting** in the function menu bar.

### 4.2.21 AAA

To configure AAA, select **Advanced Application>AAA** in the function menu bar.

### 4.2.21.1 802.1x

To configure 802.1x, select **Advanced Application>AAA>802.1x** in the function menu bar.

Port	Active	Port Control	Reauthentication	Reauthentication Timer	Max User(s)
*	disable	auto	Off	seconds	
GE0/0/1	disable	auto	Off	3600 seconds	64
GE0/0/2	disable	auto	Off	3600 seconds	64
GE0/0/3	disable	auto	Off	3600 seconds	64
GE0/0/4	disable	auto	Off	3600 seconds	64
GE0/0/5	disable	auto	Off	3600 seconds	64
GE0/0/6	disable	auto	Off	3600 seconds	64
GE0/0/7	disable	auto	Off	3600 seconds	64
GE0/0/8	disable	auto	Off	3600 seconds	64
GE0/0/9	disable	auto	Off	3600 seconds	64
GE0/0/10	disable	auto	Off	3600 seconds	64
GE0/0/11	disable	auto	Off	3600 seconds	64
GE0/0/12	disable	auto	Off	3600 seconds	64
GE0/0/13	disable	auto	Off	3600 seconds	64
GE0/0/14	disable	auto	Off	3600 seconds	64
GE0/0/15	disable	auto	Off	3600 seconds	64
GE0/0/16	disable	auto	Off	3600 seconds	64
GE0/0/17	disable	auto	Off	3600 seconds	64
GE0/0/18	disable	auto	Off	3600 seconds	64
GE0/0/19	disable	auto	Off	3600 seconds	64
GE0/0/20	disable	auto	Off	3600 seconds	64
GE0/0/21	disable	auto	Off	3600 seconds	64
GE0/0/22	disable	auto	Off	3600 seconds	64
GE0/0/23	disable	auto	Off	3600 seconds	64
GE0/0/24	disable	auto	Off	3600 seconds	64
GE0/1/1	disable	auto	Off	3600 seconds	64
GE0/1/2	disable	auto	Off	3600 seconds	64

#### 【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 until 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 require reauthentication or to periodically re-authenticate

Parameter	Description
Reauthentication Timer	Time range: 10 - 3600 seconds
Max user(s)	The maximum number of users: 1 - 100

**【Configuration Example】**

GE0/0/1	disable ▼	auto ▼	Off ▼	3600	seconds	100
---------	-----------	--------	-------	------	---------	-----

### 4.2.21.2 Domain

To configure RADIUS Domain, select **Advanced Application>AAA> Domain** in the function menu bar.

#### 【Parameter Description】

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

#### 【Information】

This function requires a username and password to authenticate a client. The username information generally includes the user’s ISP information, the domain and one-to-one correspondence with the ISP. The main information domain is the domain of the user that is authenticated and accounted for by the RADIUS server.

### 4.2.21.3 Set Authentication

To configure Remote Authentication, select **Advanced Application>AAA>Set Authentication** in the function menu bar.

#### 【Parameter Description】

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

### 4.2.21.4 TACACS+ Server Setup

To configure TACACS+ Server Setup, select **Advanced Application>AAA>TACACS+ Server Setup** in the function menu bar.

#### 【Parameter Description】

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

### 4.2.21.5 Radius Server Setup

To configure RADIUS Server Setup, select **Advanced Application>AAA>Radius Server Setup** in the function menu bar.

**RADIUS Server Setup**
AAA
MUSER

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

**Radius Host:**

Host Name	<input style="width: 60%;" type="text"/>
Preemption Time	<input style="width: 30%;" type="text" value="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	Switch
Accounting Server	1	0.0.0.0	1813	Switch
	2	0.0.0.0	1813	Switch

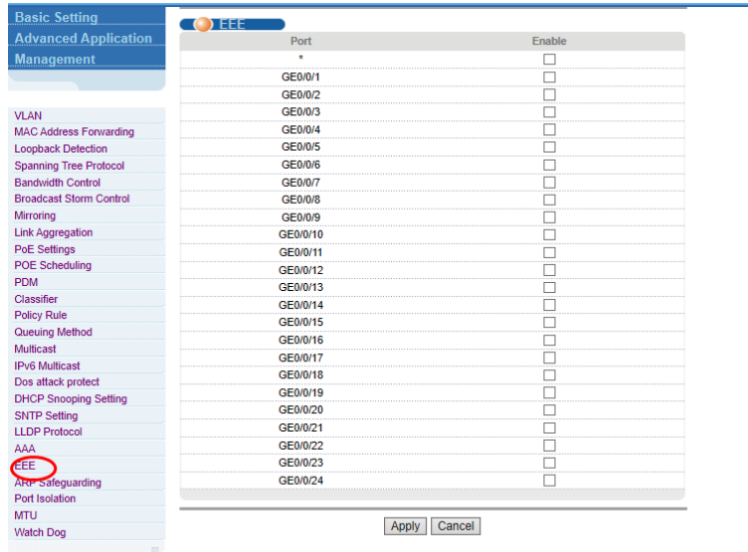
Host	Authentication IP Address	Accounting IP Address	Delete
			Delete

**【Parameter Description】**

Parameter	Description
8021P Priority	If activated and user authentication is successful, this function will modify the PVID of the user's port.
H3C Cams	If activated, this function configures the version information of transmitting clients to the RADIUS server through the RADIUS attribute client-version.
Bandwidth limit	If activated and user authentication is successful, this function will modify the bandwidth of the user's port.

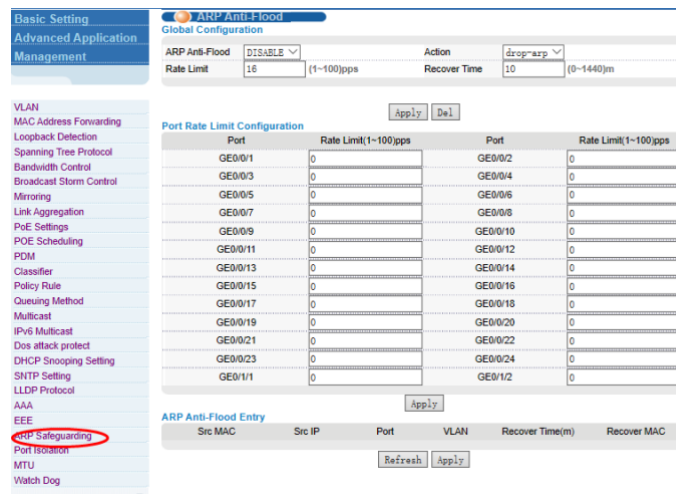
### 4.2.22 EEE (Part of our Self-Healing Network Suite of Features)

To enable or disable the function for Energy Efficient Ethernet, select **Advanced Application>EEE** in the function menu bar.



### 4.2.23 ARP Safeguarding

To prevent ARP flooding, select **Advanced Application>ARP Safeguarding**.

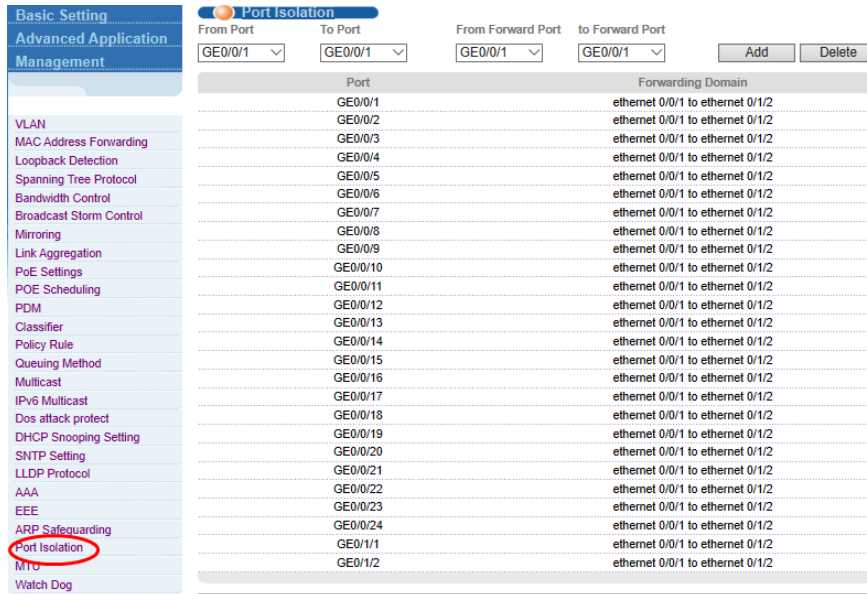


#### 【Parameter Description】

Parameter	Description
Global Configuration	Enable or disable ARP Anti-flood
Port Rate Limit	Set ARP message speed limit for specific interface. If it exceeds the speed limit, it is considered to be under attack.

## 4.2.24 Port Isolation

To configure Port Isolation, select **Advanced Application>Port Isolation**.



## 4.2.25 MTU

To configure to MTU, select **Advanced Application>MTU**.



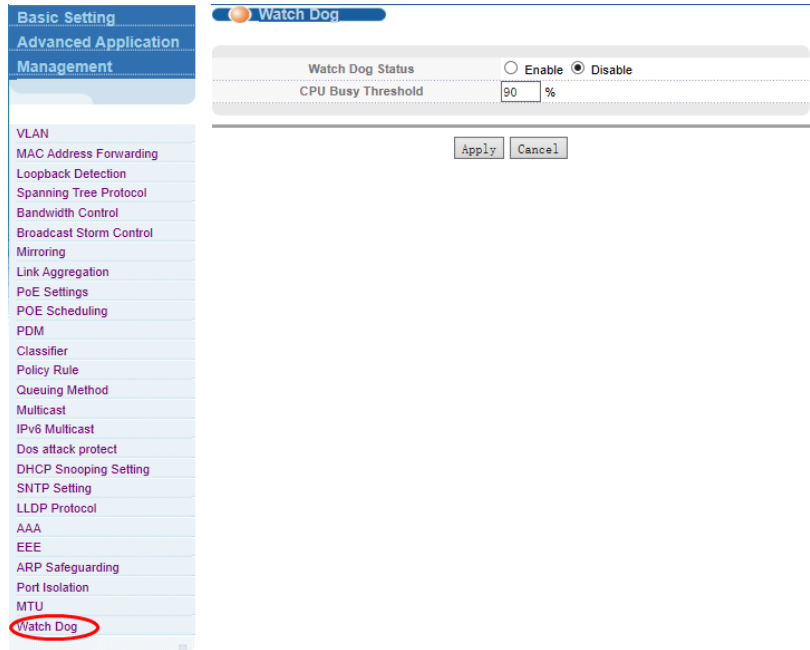
### 【Parameter Description】

Parameter	Description
MTU	Set MTU, range 1522 - 10240

4.2.26

4.2.26 Watch Dog (Part of our Self-Healing Network Suite of Features)

To configure Watch Dog, select **Advanced Application>Watch Dog**.

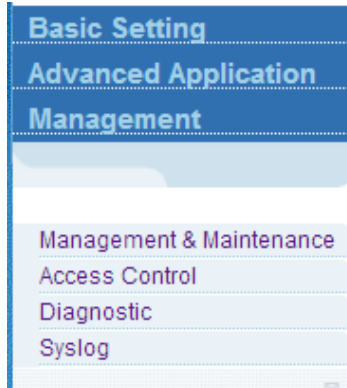


**【Parameter Description】**

Parameter	Description
Watch Dog Status	Enable or disable Watch Dog Status
CPU Busy Threshold	Set the CPU Busy Threshold

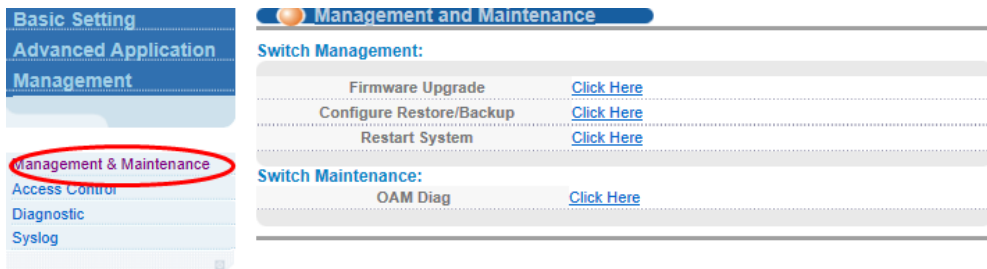
### 4.3 Management

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



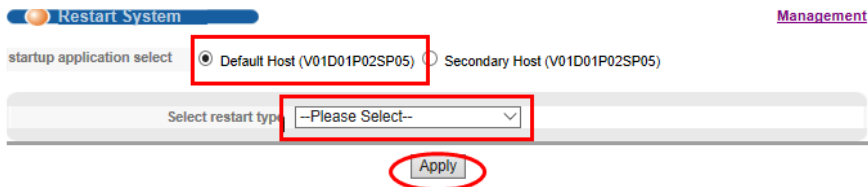
#### 4.3.1 Management and Maintenance

To upgrade firmware, restart the system and perform switch maintenance, select **Management> Management & Maintenance** in the function menu bar.

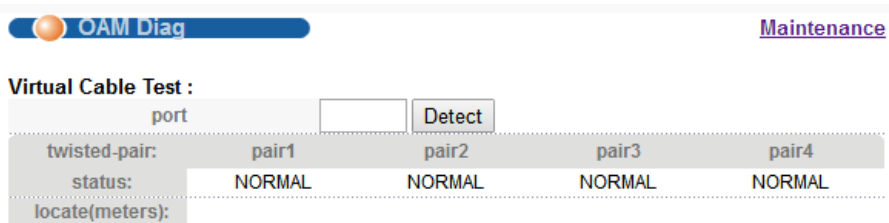


#### **【Configuration Example】**

1. Firmware Upgrade.
2. Restart system. Restart type: Restart, Restart with Factory Defaults.

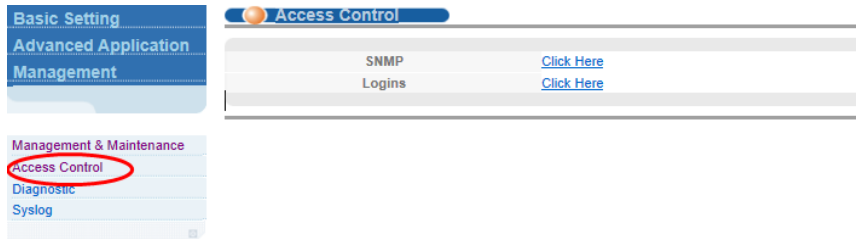


3. OAM Diag, Virtual cable can be tested.



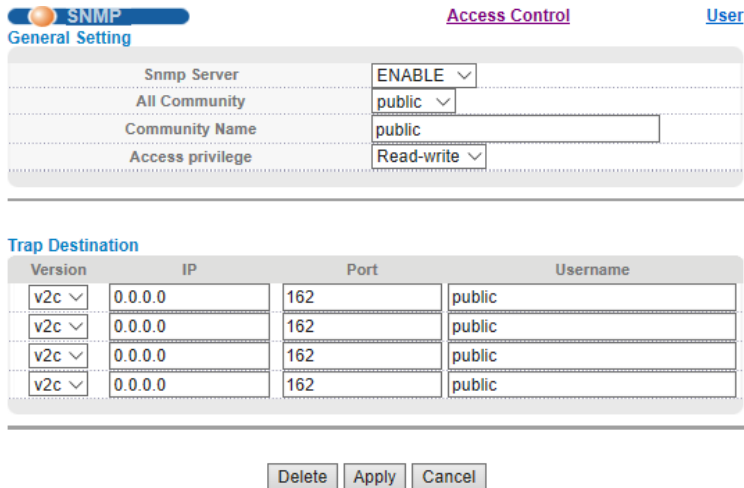
### 4.3.2 Access Control

To set SNMP and Logins, select **Management>Access Control** in the function menu bar.



#### 4.3.2.1 SNMP

To configure SNMP, select **Management> Access Control>SNMP** in the function menu bar.



#### 【Parameter Description】

Parameter	Description
All Community	Set All Community
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 read and also be modified
Version	Set version: v1, v2c, v3
IP	Set the IP address of the trap host

#### 【Configuration Example】

Add a group name public community, set access to Read-Write. Set host 192.168.2.3 to receive trap messages. The specified version is v2c.

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

**General Setting**

Snmp Server: ENABLE

All Community: public

Community Name: public

Access privilege: Read-write

**Trap Destination**

Version	IP	Port	Username
v2c	192.168.2.3	162	public
v2c	0.0.0.0	162	public
v2c	0.0.0.0	162	public
v2c	0.0.0.0	162	public

Delete **Apply** Cancel

### 4.3.2.2 User Information

To add a user, set a Security Level, Authentication, Privacy, Group and Password, select **Management> Access Control>User Information** in the function menu bar.

**User Information** SNMP Setting

Username:

Security Level: noauth

Authentication: MD5 Password:

Privacy: DES Password:

Group: initial

Add Cancel Clear

Index	Username	SecurityLevel	Authentication	Privacy	Group	Delete
1	initialmd5	pri	MD5	DES	initial	<input type="checkbox"/>
2	initialsha	pri	SHA	DES	initial	<input type="checkbox"/>
3	initialnone	noauth	noauth	nopri	initial	<input type="checkbox"/>

Delete 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】

Add group initial, add username user1.

**User Information** [SNMP Setting](#)

Username:

Security Level:

Authentication:

Privacy:

Group:

Password:

Password:

### 4.3.2.3 Logins

To modify the admin password and configure ordinary users, select **Management>Access Control>Logins** in the function menu bar.

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

[Edit admin](#)

Old Password (1-32 characters):

New Password (1-32 characters):

Retype to confirm:

Encrypt password:

User privilege (0:Guest 1:User 2-14:Operator 15:Manager):  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	Encrypt password	User privilege
1				0 Clear word	0 Guest
2				0 Clear word	0 Guest
3				0 Clear word	0 Guest
4				0 Clear word	0 Guest
5				0 Clear word	0 Guest
6				0 Clear word	0 Guest
7				0 Clear word	0 Guest
8				0 Clear word	0 Guest
9				0 Clear word	0 Guest
10				0 Clear word	0 Guest
11				0 Clear word	0 Guest
12				0 Clear word	0 Guest
13				0 Clear word	0 Guest
14				0 Clear word	0 Guest
15				0 Clear word	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	•••••
Encrypt password	0 Clear password ▾
User privilege (0:Guest 1:User 2-14:Operator 15:Manager)	15 Administrator

**Edit Other Logins**

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

### 4.3.2.4 Super Password

To set a Super Password, select **Management>Access Control>Super Password** in the function menu bar.

Privilege	Password
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

**Edit User Privilege**

User Name	User Privilege	Input Password
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### 4.3.3 Diagnostic

To display or clear the System Log, select **Management> Diagnostic** in the function menu bar.

**Diagnostic**

- Info -

System Log

#### 【Configuration Example】

Display System Log.

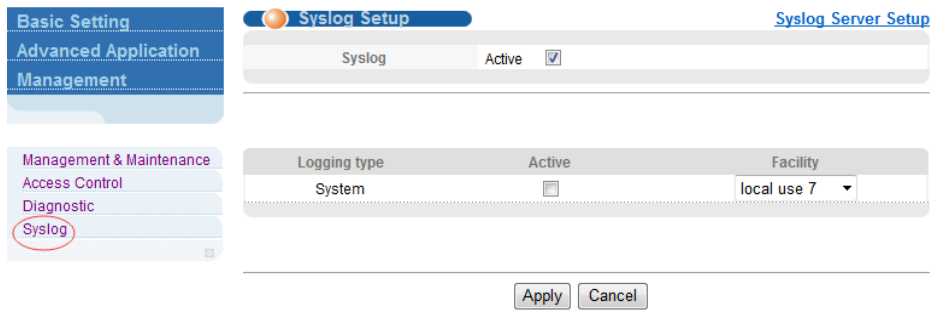
```

2000/01/01 02:18:20: %OAM-5-EVENT: User has logged in on web
1[username: admin, privilege: 15, ip: 192.168.2.2].
2000/01/01 02:18:17: %OAM-5-EVENT: User has logged out on web
1[username: admin, privilege: 15, ip: 192.168.2.2].
2000/01/01 01:48:31: %OAM-5-EVENT: User has logged in on web
1[username: admin, privilege: 15, ip: 192.168.2.2].
2000/01/01 01:48:28: %OAM-5-EVENT: User has logged out on web
1[username: admin, privilege: 15, ip: 192.168.2.2].
2000/01/01 00:07:42: %OAM-5-EVENT: User has logged in on web
1[username: admin, privilege: 15, ip: 192.168.2.2].
2000/01/01 00:01:39: %POE-5-EVENT: GE0/0/24 poe power switch
to off.
2000/01/01 00:01:38: %POE-5-EVENT: GE0/0/23 poe power switch
to off.
2000/01/01 00:01:37: %POE-5-EVENT: GE0/0/22 poe power switch
    
```

System Log

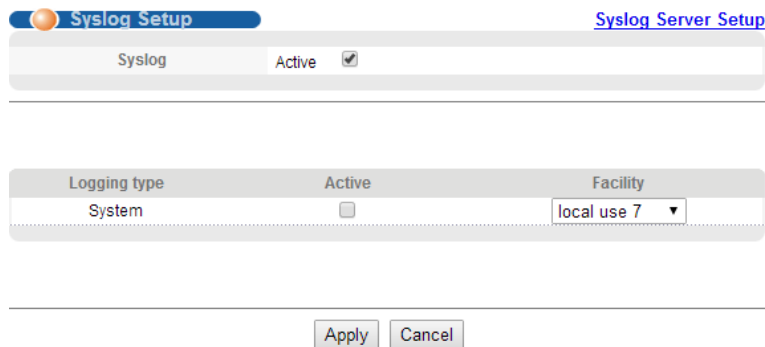
### 4.3.4 Syslog

To configure the Syslog, select **Management> Syslog** in the function menu bar.



#### 4.3.4.1 Syslog Setup

To start the logging function globally and the logging function of the corresponding module, select **Management>Syslog>Syslog Setup** in the function menu bar.



#### 【Parameter Description】

Parameter	Description
Facility	local use 0 - 7 kernel userlevel mail system security_1-2 sysogd lineprinter Networknews uucp clock_1-2 ftp logaudit logalert

**【Configuration Example】**

**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**

To set the syslog server, select **Management>Syslog>Syslog Server Setup** in the function menu bar.

**Syslog Server Setup** [Syslog Setup](#)

Active

Server Address

Log Level

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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

**【Information】**

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

**【Configuration Example】**

Set server address to 192.168.2.100.

**Syslog Server Setup** [Syslog Setup](#)

Active	<input checked="" type="checkbox"/>
Server Address	192.168.2.100
Log Level	Level 0

Index	Active	IP Address	Log Level	Delete
1	Yes	192.168.2.100	0	<input type="checkbox"/>

**Chapter 5 -**

## Appendix

### 5.1 Technical Specifications

5.1.1 Hardware Specifications	
Standards	IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x, IEEE 802.3z, IEEE 802.3at (excluding 508834), IEEE 802.3af (excluding 508834), IEEE 802.1q, IEEE 802.1p
Network Media (Cable)	10Base-T: UTP category 3, 4, 5 cable (maximum 100 m) 100Base-Tx: UTP category 5, 5e cable (maximum 100 m) 1000Base-T: UTP category 5e, 6 cable (maximum 100 m) 1000Base-SX:62.5µm/50µm MMF (2 m – 550 m) 1000Base-LX:62.5µm/50µm MMF (2 m – 550 m) or 10µm SMF (2 m – 5000 m)
Number of Ports (Total)	<ul style="list-style-type: none"> <li>• 560559: 26 (24 RJ45, 2 SFP)</li> <li>• 561167: 10 (8 RJ45, 2 SFP)</li> <li>• 561198: 18 (16 RJ45, 2 SFP)</li> <li>• 561341: 18 (16 RJ45, 2 SFP)</li> <li>• 561426: 28 (24 RJ45, 4 Combo [4 SFP, 4 RJ45 Uplinks])</li> <li>• 508834: 10 (8 RJ45, 2 SFP)</li> <li>• 562003: 10 (8 RJ45, 2 SFP)</li> <li>• 562065: 18 (16 RJ45, 2 Base-T/SFP Combo)</li> <li>• 562072: 26 (24 RJ45, 2 Base-T/SFP Combo)</li> </ul>
Transfer Method	Store-and-Forward
Switching Capacity	<ul style="list-style-type: none"> <li>• 560559: 52 Gbps</li> <li>• 561167: 20 Gbps</li> <li>• 561198: 36 Gbps</li> <li>• 561341: 36 Gbps</li> <li>• 561426: 56 Gbps</li> <li>• 508834: 20 Gbps</li> <li>• 562003: 20 Gbps</li> <li>• 562065: 36 Gbps</li> <li>• 562072: 52 Gbps</li> </ul>
MAC Address Learning	8,192
Packet Forwarding Rate	1,488,000 pps (1000 Mbps), 148,800 pps (100 Mbps), 38690 pps (38.69 Mbps), 14,880 pps (10 Mbps)
Packet Buffer	<ul style="list-style-type: none"> <li>• 560559, 561167, 561198, 561341: 512 kBytes</li> <li>• 561426, 508834, 562003, 562065, 562072: 4.1 Mbit</li> </ul>

Jumbo Frame	Up to 9,216
PoE Ports (RJ45)	<ul style="list-style-type: none"> <li>• 560559: 24</li> <li>• 561167: 8</li> <li>• 561198: 16</li> <li>• 561341: 16</li> <li>• 561426: 24</li> <li>• 508834: not applicable</li> <li>• 562003: 8</li> <li>• 562065: 16</li> <li>• 562072: 24</li> </ul>
PoE Budget	<ul style="list-style-type: none"> <li>• 560559: 240 W</li> <li>• 561167: 140 W</li> <li>• 561198: 374 W</li> <li>• 561341: 220 W</li> <li>• 561426: 370 W</li> <li>• 508834: not applicable</li> <li>• 562003: 242 W</li> <li>• 562065: 518 W</li> <li>• 562072: 518 W</li> </ul>
Power Pin Assignment	<p>1/2(+),3/6(-) (561167)</p> <p>4/5(+), 7/8(-) (561341)</p> <p>1/2(-),3/6(+) (for the PoE+ ports of 562003, 562065, 562072)</p> <p>1/2/7/8(-), 3/4/5/6(+) (for the PoE++ ports of 562003, 562065, 562072)</p>
Indicators	<p><b>Standard Switches</b></p> <p>Per Device System Power</p> <p><b>Industrial Switch 508834</b></p> <p>PWR1, PWR2, System Power</p>
	<p>Per Port Link/Activity/Speed, PoE (excluding 508834)</p>
Frame Filtering and Forward Rate	<p>10 Mbps: 14880pps</p> <p>38.69 Mbps: 38690pps</p> <p>100 Mbps: 148800pps</p> <p>1000 Mbps: 1488000pps</p>
Dimensions (W x L x H)	<ul style="list-style-type: none"> <li>• 560559: 440 (W) x 208 (L) x 44 (H) mm (17.32 x 8.19 x 1.7 in.)</li> <li>• 561167: 280 (W) x 180 (L) x 44 (H) mm (11.02 x 7.09 x 1.73 in.)</li> <li>• 561198: 440 (W) x 208 (L) x 44 (H) mm (17.32 x 8.19 x 1.73 in.)</li> <li>• 561341: 440 (W) x 208 (L) x 44 (H) mm (17.32 x 8.19 x 1.73 in.)</li> <li>• 561426: 440 (W) x 208 (L) x 44 (H) mm (17.32 x 8.19 x 1.73 in.)</li> <li>• 508834: 140 (W) x 175 (L) x 55 (H) mm (5.51 x 6.89 x 2.17 in.)</li> <li>• 562003: 230 (W) x 280 (L) x 44 (H) mm (9.06 x 11.02 x 1.73 in.)</li> <li>• 562065: 440 (W) x 330 (L) x 44 (H) mm (17.32 x 12.99 x 1.73 in.)</li> <li>• 562072: 440 (W) x 330 (L) x 44 (H) mm (17.32 x 12.99 x 1.73 in.)</li> </ul>

Power Supply	<ul style="list-style-type: none"> <li>• 560559: 90 – 260 V AC, 50 – 60 Hz</li> <li>• 561167, 561198, 561341, 562003, 562065, 562072: 100.0 – 240.0 VAC, 50 – 60 Hz</li> <li>• 561426: 90 – 240 V AC, 50 – 60 Hz</li> <li>• 508834: 44.0 - 57.0 VDC</li> </ul>
Power consumption	<ul style="list-style-type: none"> <li>• 560559: 260 watts (max.)</li> <li>• 561167: 163.2 watts (max.)</li> <li>• 561198: 410 watts (max.)</li> <li>• 561341: 260 watts (max.)</li> <li>• 561426: 431.7 watts (max.)</li> <li>• 508834: 8.76 watts (max.)</li> <li>• 562003: 252 watts (max.)</li> <li>• 562065: 550 watts (max.)</li> <li>• 562072: 564 watts (max.)</li> </ul>
Operating Temperature	<ul style="list-style-type: none"> <li>• 560559, 561198, 561341: 0°C – 40°C (32°F – 104°F)</li> <li>• 561167, 561426, 562003, 562065, 562072: 0°C – 45°C (32°F – 113°F)</li> <li>• 508834: -40 °C – 85°C (-40°F – 185°F)</li> </ul>
Storage Temperature	<ul style="list-style-type: none"> <li>• 560559: 20°C – 70°C (-4°F – 158°F)</li> <li>• 561167: -10°C – 70°C (14°F – 158°F)</li> <li>• 561198, 561341: -20°C – 90°C (-4°F – 194°F)</li> <li>• 561426, 562003, 562065, 562072: -40°C – 70°C (-40°F – 158°F)</li> <li>• 508834: -40 °C – 85°C (-40°F – 185°F)</li> </ul>
Operating Humidity	<ul style="list-style-type: none"> <li>• Standard Switches: 10% – 90% RH non-condensing</li> <li>• Industrial Switch (508834): 5% – 95% RH non-condensing</li> </ul>
Storage Humidity	<ul style="list-style-type: none"> <li>• Standard Switches: 5% – 90% non-condensing</li> <li>• Industrial Switch (508834): 5% – 95% RH non-condensing</li> </ul>

5.1.2 Software Specification	
Basic function	Ethernet Setup STP/RSTP/MSTP Storm-control Port Monitor Port rate-limit MAC filtering
Three layers of functional	ARP deception, network cheating Filtering the IP port Static binding IP and MAC ARP trust port Static routing capacity Ping and Traceroute
The security policy	ACE capacity ACL QoS DAI
VLAN	Port based VLAN 802.1Q VLAN
Safety features	RADIUS TACACS+ Preventing DoS attacks dot1x Gateway ARP deception
Application protocol	DHCP Relay DHCP Snooping DHCP Client FTP/TFTP
Management	HTTP WEB Telnet SSH Console
Other function	LLDP IGMP Snooping SNMPV1, V2c, V3 RMON (1, 2, 3, 9)
PoE Management	PoE Status Power supply management mode(auto/energy/static) The port priority

## 5.2 Features and Terms Explained

### **VLAN**

A Virtual Local Area Network, this allows network admins to maintain a virtual network to optimize devices attached to the switch for better overall performance.

### **MAC Address Forwarding**

The ability in Layer 2 networking to control network traffic based on MAC address within VLANs.

### **Loopback Detection**

Loopback Detection allows the switch to detect loops in the network (multiple connections from one device to another). When a loop is detected on a port, the switch will display an alert on the management interface and block the traffic on the corresponding port.

### **Spanning Tree Protocol (STP)**

Another form of loopback discovery and protection based upon the IEEE802.1D standard.

### **Bandwidth Control**

The ability to limit network traffic on a specific port of the switch on an inbound and/or outbound basis.

### **Broadcast Storm Control**

Storm control and equivalent protocols allow you to rate-limit broadcast packets. Broadcast storm control is a feature of many managed switches in which the switch intentionally ceases to forward all broadcast traffic if the bandwidth consumed by incoming broadcast frames exceeds a designated configurable threshold.

### **Mirroring**

The ability to duplicate network traffic from one port to another, on an inbound and/or outbound basis.

### **Link Aggregation**

The ability to link multiple ports into one logical interface to increase bandwidth.

### **PoE**

Power over Ethernet, a technique for delivering DC power to devices over copper Ethernet cabling, eliminating the need for separate power supplies and outlets. Current standards are IEEE802.3af/at and bt.

### **PoE Scheduling**

The ability to schedule the availability of PoE on each port of the switch on a day/time basis.

### **PDM**

Powered Device Monitoring, a function that restarts any connected PoE device that fails to respond or send out network traffic. (Configurable on Intellinet Network Solutions Managed Switches).

## **Chapter 6 - Additional Information**

### **6.1 WASTE ELECTRICAL & ELECTRONIC EQUIPMENT**

#### DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT

(Applicable In the E.U. and Other European Countries With Separate Collection Systems)

**ENGLISH:** This symbol on the product or its



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## 6.2 WARRANTY

### Go to [Intellinet-network.com](http://Intellinet-network.com)

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## 6.3 REGULATORY STATEMENTS

### FCC Class A

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense. Any changes or modifications made to this equipment without the approval of the manufacturer could result in the product not meeting the Class A limits, in which case the FCC could void the user's authority to operate the equipment.

CE

**ENGLISH** : This device complies with the requirements of CE 2014/30/EU (UKCA Electromagnetic Compatibility Regulations 2016) and / or 2014/35/EU (UKCA Electrical Equipment [Safety] Regulations 2016). The Declaration of Conformity for is available at:

**DEUTSCH** : Dieses Gerät entspricht der CE 2014/30/EU und / oder 2014/35/EU. Die Konformitätserklärung für dieses Produkt finden Sie unter:

**ESPAÑOL** : Este dispositivo cumple con los requerimientos de CE 2014/30/EU y / o 2014/35/EU. La declaración de conformidad esta disponible en:

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