

WEB Configuration Manual

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1. WEB Basic Configuration

1.1 HTTP protocol configuration

Switches support not only can be configured by CLI and SNMP protocol, it also supports being configured by web. HTTP service port configuration and time configuration of abnormal message overtime and etc are also supported.

1.1.1 Language Selection

Currently, there are two languages in TNM4000 series Industrial Switch: you may choose English or Chinese. User can set the language in the global configuration mode through the command line as below:

Enter the command as shown as below in global configuration mode and then system language changed.

Command	Description
[no] ip http language {english}	Setting the Web language to English. The Web interface will turn into the English version.

1.1.2 HTTP service port configuration

Generally, the HTTP port is port 80 by default, and users can access a switch by entering the IP address directly; however, switches also support users to change the service port and after the service port is changed you have to use the IP address and the changed port to access switches. For example, if you set the IP address and the service port to **192.168.2.1** and **1234** respectively, the HTTP access address should be changed to **http:// 192.168.2.1:1234**. You'd better not use other common protocols' ports so that access collision would not happen. For example, **ftp-20**, **telnet-23**, **dns-53**, **snmp-161**. Because the ports used by a lot of protocols are hard to remember, you'd better use port IDs following port 1024.

Command	Purpose
ip http port { <i>portNumber</i> }	Configuring HTTP service port

1.1.3 Enabling the HTTP service

Switches support to control the HTTP access. Only when the HTTP service is enabled can HTTP

exchange happen between switch and PC and, when the HTTP service is closed, HTTP exchange stops. Configure global mode by the following command:

Command	Purpose
ip http server	Enabling HTTP service

1.1.4 HTTP access mode Configuration

You can access a switch through two access modes: HTTP access and HTTPS access, and you can use the following command to set the access mode to **HTTP**.

Command	Purpose
ip http http-access enable	Configuring HTTP access mode

1.1.5 Setting the Max-VLAN number to display in Web page

Setting a value between 1 and 4094 in the global configuration mode (4094 which is the max value, default max-vlan value is 100) .

Command	Description
ip http web max-vlan { <i>max-vlan</i> }	Setting the Max-VLAN numbers to display in Web page

1.1.6 Setting the IGMP-Groups number to display in Web page

Setting a value between 1 and 100 in the global configuration mode (100 is the max value, default value is 15).

Command	Description
ip http web igmp-groups { <i>igmp-groups</i> }	Setting the IGMP-Groups number to display in Web page

1.2 HTTPS Configuration

In order to improve the security of communications, switches support not only the HTTP protocol but also the HTTPS protocol. HTTPS is a security-purposed HTTP channel and it is added to the SSL layer under HTTP.

1.2.1 HTTPS Access Configuration

You can run the following command to set the access mode to **HTTPS** at global configuration mode.

Command	Description
<code>ip http ssl-access enable</code>	Enable the HTTPS access mode

1.2.2 HTTPS Service Port Configuration

As same as the HTTP service port, the service port in HTTPS is number 443. User can change the port number through command line in global configuration mode. Suggesting the port number is bigger than 1024 so as to avoid the port number collision.

Command	Description
<code>ip http secure-port {portNumber}</code>	Setting the HTTPS port number

2 Accessing Switch

2.1 Accessing the Switch Through Web

When accessing the switch through Web browser, please make sure that the applied browser complies with the following requirements:

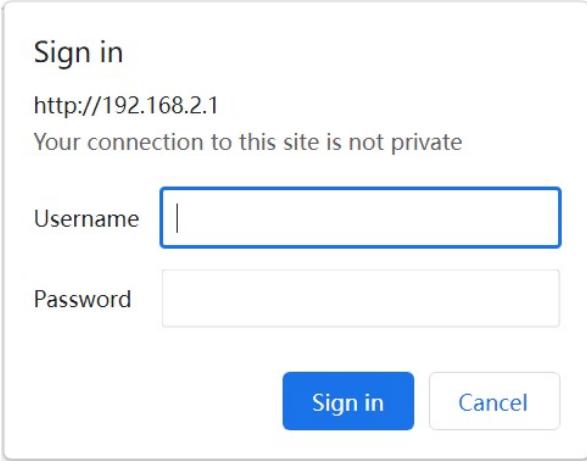
- HTML of version 4.0
- HTTP of version 1.1
- JavaScript™ of version 1.5

What's more, please ensure that the main program file, which is running on the switch, supports Web access and your computer has already connected to the network which the switch is located.

2.2 Initially Accessing the Switch

When the switch is initially used, you can use the Web access without any extra settings:

1. Modify the IP address of the network adapter and subnet mask of your computer to **192.168.2.2** and **255.255.255.0** respectively.
2. Open the Web browser and enter **192.168.2.1** in the address bar. It is noted that **192.168.2.1** is the default management address of the switch.
3. If the IE browser is used, please enter the username and the password in the ID authentication dialog box. Both the original username and the password are “admin”, which is capital sensitive.



The image shows a 'Sign in' dialog box with the following elements:

- Title: Sign in
- URL: http://192.168.2.1
- Warning: Your connection to this site is not private
- Username field: A text input box with a vertical cursor.
- Password field: A text input box.
- Buttons: A blue 'Sign in' button and a white 'Cancel' button.

4. After successful authentication, the systematic information about the switch will appear on the IE browser.

2.2.1 Upgrading to the Web-Supported Version

If your switch is upgraded to the Web-supported version during its operation and the switch has already stored its configuration files, then Web visit cannot be directly applied on the switch. Perform the following steps one by one to enable the Web visit on the switch:

1. Connect the console port of the switch with the accessory cable, or telnet to the management address of the switch through computer.
2. Enter the global configuration mode of the switch through the command line, the DOS prompt of which is similar to "Switch_config#".
3. If the management address of the switch is not configured, please create the VLAN interface and configure the IP address.
4. Enter the **ip http server** command in global configuration mode and start the Web service.
5. Run **username** to set the username and password of the switch. For how to use this command, refer to the "Security Configuration" section in the user manual.

After the above-mentioned steps are performed, you can enter the address of the switch in the Web browser to access the switch.

6. Enter **write** to save the current configuration to the configuration file.

2.3 Accessing Switch Through Secure Links

The data between the WEB browser and the switch will not be encrypted if you access switch through common HTTP. To encrypt these data, you can use the secure links, which are based on the secure sockets layer, to access the switch.

To do this, you should follow the following steps:

1. Connect the console port of the switch with the accessory cable, or telnet to the management address of the switch through computer.
2. Enter the global configuration mode of the switch through the command line, the DOS prompt of which is similar to "Switch_config#".
3. If the management address of the switch is not configured, please create the VLAN interface and configure the IP address.
4. Enter the **ip http server** command at global configuration mode and start the Web service.
5. Run **username** to set the username and password of the switch. For how to use

this command, please refer to the “Security Configuration” section in the user manual.

6. Run **ip http ssl-access enable** to enable the secure link access of the switch.
7. Run **no ip http http-access enable** to forbid to access the switch through insecure links.
8. Enter **write** to store the current configuration to the configuration file.
9. Open the WEB browser on PC that the switch connects, enter **https://192.168.2.1** on the address bar (**192.168.2.1** stands for the management IP address of the switch) and then press the **Enter** key. Then the switch can be accessed through the secure links.

2.4 Introduction of Web Interface

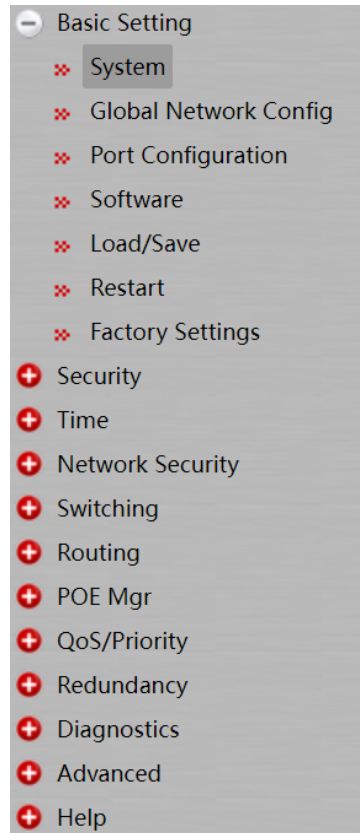
The Web homepage appears after login, the whole homepage consists of the **top control bar**, the **navigation bar**, the **configuration display area** and the **bottom control bar**.

2.4.1 Top Control Bar



Save	<p>Write the current settings to the configuration file of the device. It is equivalent to the execution of the write command.</p> <p>The configuration that is made through Web will not be promptly written to the configuration file after validation. If you click “Save”, the unsaved configuration will be lost after rebooting.</p>
------	---

2.4.2 Navigation Bar



The contents in the navigation bar are shown in a form of list and classified according to types. By default, the list is located at “system”. If a certain item need be configured, please click the group name and then the sub-item. **For example, to browse the flux of the current port, you have to click “Diagnostics” and then “Ports”, “Statistics Table”.**

Note:

The limited user can only browse the state of the device and cannot modify the configuration of the device. If you log on to the Web with limited user’s permissions, only “System” will appear.

2.4.3 Configuration Display Area

User Management		Group Management		Pass Management		Author Management		Authen Management	
<input type="checkbox"/>	User name	User permission	Pass-Group	Authen-Group	Author-Group	User Status	Operate		
<input type="checkbox"/>	admin	System administrator				Normal	Modify		

The configuration display area shows the state and configuration of the device. The contents of this area can be modified by the clicking of the items in the navigation bar.

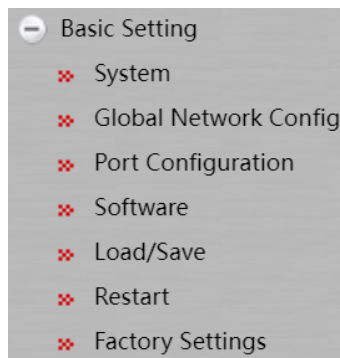
2.4.4 Bottom Control Bar



The configuration area always contains one or more buttons, and their functions are listed in the following table:

Set	Apply the modified configuration to the device. The application of the configuration does not mean that the configuration is saved in the configuration file. To save the configuration, you have to click "Save" on the top control bar.
Reload	Refresh the content shown in the current configuration area.
Create	Create a list item. For example, you can create a VLAN item or a new user.
Delete	Delete an item in the list.
Go Back	Go back to the previous-level configuration page.
Clear	Clear the content of current configuration, such as statistics of port.

3 Basic Configuration



3.1 System

If you click **Basic Setting -> System** in the navigation bar, the page appears as shown as below:

System Data	
Name	<input type="text" value="Switch"/>
Location	<input type="text"/>
Contact	<input type="text"/>
Device Type	<input type="text" value="SDS300-B6P2040P"/>
Serial No.	<input type="text" value="90043300108"/>
MAC Address	<input type="text" value="3029.BE91.0031"/>
IP Address	<input type="text" value="192.168.2.1"/>
CPU Usage	<input type="text" value="4%"/>
Memory Usage	<input type="text" value="38%"/>
Uptime	<input type="text" value="0 Day ,4:19:7"/>
Temperature(°C)	<input type="text" value="-15"/> <input type="text" value="33"/> <input type="text" value="80"/>

The system message will be displayed in the dialog box.

The default name of the device is "Switch". You can enter the new hostname in the text box and then click "Set" in the bottom control bar.

3.2 Global Configuration Mode (Management Interface)

If you click **Basic Setting -> Global Network Config** in the navigation bar, the page appears as shown as below:

Management Interface	
IP Address Assignment	<input type="radio"/> DHCP <input checked="" type="radio"/> Local
Vlan ID	<input type="text" value="1"/>
MAC Address	<input type="text" value="30:29:BE:91:00:31"/>
IP Parameter	
IP Address	<input type="text" value="192.168.2.1"/>
NetMask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text"/>

- Setting the IP address of Interface VLAN 1 , in order to access the switch
- This page is used to set the IP address of Interface Vlan 1 in the management interface of the device. In initial conditions, the MAC address of the device, the IP address, mask and gateway of the interface will appear on this page.

3.3 Port Configuration

If you click **Basic Setting -> Port Configuration** in the navigation bar, the **Port Configuration** page appears, as shown as below figure:

Port	Description	Enable	Status	Speed	Current Speed	Duplex	Flow Control	Medium
g0/1		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto	---	Auto	Off	Auto
g0/2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Auto	1000Mb/s	Auto	Off	Auto
g0/3		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto	---	Auto	Off	Auto
g0/4		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto	---	Auto	Off	Auto
g0/5		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto	---	Auto	Off	Auto
g0/6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	Auto	---	Auto	Off	Auto

You can change the status, speed, duplex mode and flow control of a port on this page.

Note:

Port link switching might happen if modifying port's speed or duplex mode. Network communication might be affected.

3.4 Software

If you click **Basic Setting -> Software** in the navigation bar, the **Software** management page appears, as shown as below figure:

The screenshot shows two main sections. The first section, titled "Version", contains two rows: "Running Version" with the text "Switch.bin, 2.2.0D Build 114471, 2023-12-13 16:25:24 by USER-2016031" and an "Export" button; and "ROM Version" with the text "0.5.4". The second section, titled "Software Update", contains a "File" label, a file selection button labeled "选择文件" (Select File), the text "未选择任何文件" (No file selected), and an "Update" button.

Current running version and ROM version could be checked at this page. Click **Export** to export current running version to computer. Choose the to-be-updated software version and click **Update** to change system's software version on **Software Update** Column.

Note: The updated system's software will be valid only if the device is restarted.

3.5 Load/Save

If you click **Basic Setting -> Load/Save** in the navigation bar, the page appears as shown as below figure:

The screenshot shows two main sections. The first section, titled "Save", contains a "Current configuration file" field with the text "startup-config" and an "Export" button. The second section, titled "Load", contains an "Import startup-config file" label, a file selection button labeled "选择文件" (Select File), the text "未选择任何文件" (No file selected), and an "Import" button. Below the "Load" section, there is a red warning message: "Reboot is required after importing startup-config!".

Click the "Export" then the current configuration of system will be exported to computer, click the "Import" then related configuration document will be imported to switch.

3.6 Restart

If you click **Basic Setting -> Restart** in the navigation bar, the page appears as shown as below figure:

The screenshot shows a "Restart" section with four buttons stacked vertically: "Reboot", "Clear MAC Address Table", "Clear ARP Table", and "Clear port counters".

You can choose “Reboot” to reboot the switch, or choose “Clear MAC Address Table”, “Clear ARP Table”, “Clear port counters”.

3.7 Factory Settings



On this page you can reset the equipment to factory setting, click the “Restore” button to reset to factory setting.

4 Security



4.1 User Management

4.1.1 User Management

If you click **Security -> User Management** in the navigation bar, the page appears as shown as below figure:

User Management		Group Management		Pass Management		Author Management		Authen Management	
<input type="checkbox"/>	User name	User permission	Pass-Group	Authen-Group	Author-Group	User Status	Operate		
<input type="checkbox"/>	admin	System administrator				Normal	Modify		

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to change user's configuration at this page, and click **Delete** at the bottom bar to delete the selected user.

Click **Create** at the bottom bar to enter the following page:

User Management	Group Management	Pass Management	Author Management	Authen Management
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>User name</p> <p>Password</p> <p>Confirming password</p> <p>Pass-Group</p> <p>Authen-Group</p> <p>Author-Group</p> </div> <div style="width: 55%;"> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> </div> </div>				

[Set](#) [Reload](#) [Go back](#)

Fill in configuration at every configuration column and click **Set** at the bottom bar to create new user. Click **Reload** to refresh the user information. And click **Go Back** to go back to previous level page.

4.1.2 Group Management

Click **Security** -> **User Management** in order and then click **Group Management** to open configuration page as following:

User Management	Group Management	Pass Management	Author Management	Authen Management			
<input type="checkbox"/>	Serial Number	Group Name	Pass-Group Rule	Authen-Group Rule	Author-Group Rule	Detail	Operate
<input type="checkbox"/>	1	00	2	4	3	Detail	Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to change user group's configuration at this page. Select user and click **Delete** at the bottom bar to delete the selected user group. Click **Detail** to check and configure members of group as following:

User Management	Group Management	Pass Management	Author Management	Authen Management			
<input type="checkbox"/>	Serial Number	User Name	Pass-Group Name	Authen-Group Name	Author-Group Name	User Status	Operate

Click **Create** at the bottom bar of group management page to enter the following page:

User Management	Group Management	Pass Management	Author Management	Authen Management
		User Group Name	<input type="text"/>	
		Pass-Group Name	<input type="text"/>	
		Authen-Group Name	<input type="text"/>	
		Author-Group Name	<input type="text"/>	
Set Reload Go back				

Fill in configuration at every configuration column and click **Set** at the bottom bar to create a new user group.

4.1.3 Password Rule Management

Click **Security -> User Management** in order and then click **Pass Management** to open configuration page as following:

User Management		Group Management			Pass Management			Author Management		Authen Management
<input type="checkbox"/>	Serial Number	Pass-Group Name	Same as the username	Min Length	Validity	Number	Lower-letter	Upper-letter	Special-character	Operate
<input type="checkbox"/>	1	2	Can be same			Yes	Yes	Yes	Yes	Modify
Reload Create Delete										

Click **Modify** to change password regulation at this page. Click **Delete** at the bottom bar to delete password regulation.

Click **Create** at the bottom bar to enter the following configuration page:

User Management	Group Management	Pass Management	Author Management	Authen Management
		Pass-Group Name	<input type="text"/>	
		Same as the username	<input type="text" value="Can be s"/>	
		Number	<input type="text" value="Must"/>	
		Lower-letter	<input type="text" value="Must"/>	
		Upper-letter	<input type="text" value="Must"/>	
		Special-character	<input type="text" value="Must"/>	
		Min Length	<input type="text" value=""/>	(1-127)
		Validity	<input type="text" value="0"/> d <input type="text" value="0"/> h <input type="text" value="0"/> m <input type="text" value="0"/> s	

[Set](#) [Reload](#) [Go back](#)

Fill in configuration at every configuration column and click **Set** at the bottom bar to create new password regulation.

4.1.4 Author Rule Management

Click **Security -> User Management** in order and then click **Author Management** to open configuration page as following:

User Management	Group Management	Pass Management	Author Management	Authen Management
<input type="checkbox"/>	Serial Number	Author-Group Name	Precedence	Operate
<input type="checkbox"/>	1	3	System administrator	Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to change author rules at this page. Click **Delete** at the bottom bar to delete author rules.

Click **Create** at the bottom bar to enter the following page:

User Management	Group Management	Pass Management	Author Management	Authen Management
		Author-Group Name	<input type="text"/>	
		Precedence	System administrator ▼	
Set Reload Go back				

Fill in configuration at every configuration column and click **Set** at the bottom bar to create new author rules.

4.1.5 Authentication Rule Management

Click **Security -> User Management** in order and then click **Authen Management** to open configuration page as following:

User Management	Group Management	Pass Management	Author Management	Authen Management
<input type="checkbox"/>	Serial Number	Authen-Group Name	Max try times	Duration for all tries
<input type="checkbox"/>	1	4	4	30s
				Operate
				Modify
Reload Create Delete				

Click **Modify** to change authentication rules at this page. Click **Delete** at the bottom bar to delete the selected authentication rules.

Click **Create** at the bottom bar to enter the following page:

User Management	Group Management	Pass Management	Author Management	Authen Management
				Authen-Group Name
				Max try times
				Duration for all tries
				<input type="text"/>
				<input type="text"/> (1-9)
				<input type="text"/> d <input type="text"/> h <input type="text"/> m <input type="text"/> s
<input type="button" value="Set"/> <input type="button" value="Reload"/> <input type="button" value="Go back"/>				

Fill in configuration at every configuration column and click **Setup** at the bottom bar to create new authentication rules.

4.2 Management Access

4.2.1 Server

HTTP, HTTPS, SSH and SNMP could be configured at this page. Click **Security -> Management Access -> Server** at navigation bar in order to enter service configuration page. Click **HTTP** at this page to enter HTTP configuration.

HTTP	HTTPS	SSH	SNMP
<div style="display: flex; justify-content: center; gap: 20px;"> <div> <p>Operation</p> <input checked="" type="radio"/> ON <input type="radio"/> OFF </div> <div> <p>Configuration</p> <p>Port <input type="text" value="80"/></p> </div> </div>			
<input type="button" value="Set"/> <input type="button" value="Reload"/>			

Click **HTTPS** to configure HTTPS related:

HTTP	HTTPS	SSH	SNMP
------	-------	-----	------

Operation
 ON OFF

Configuration
 Port

[Set](#) [Reload](#)

Click **SSH** to configure SSH related:

HTTP	HTTPS	SSH	SNMP
------	-------	-----	------

Operation
 ON OFF

Configuration
 TimeOut

[Set](#) [Reload](#)

Click **SNMP** to configure SNMP related:

HTTP	HTTPS	SSH	SNMP
------	-------	-----	------

Configuration

Port

Packetsize

TrapTimeout

Beating trap Interval

[Set](#) [Reload](#)

4.2.2 SNMP Community Management (SNMPv1/v2 community)

Click **Security -> Management Access -> SNMPv1/v2 Community** at navigation bar in order to enter configuration page as following:

SNMP Community				SNMP Host
<input type="checkbox"/>	SNMP Community Name	SNMP Community Encryption	SNMP Community Attribute	Operate
<input type="checkbox"/>	1	False	RO	Modify
<input type="checkbox"/>	2	False	RW	Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to change the feature of SNMP Community.

Click **Create** to create a new SNMP Community:

SNMP Community	SNMP Host
SNMP Community Name	<input type="text"/> Input less than 20 characters
SNMP Community Attribute	<input type="text" value="Read Only"/>

[Set](#) [Go back](#)

Click **Delete** to delete the selected SNMP Community.

Click **SNMP Host** to switch to the SNMP Host configuration page:

SNMP Community				SNMP Host
<input type="checkbox"/>	SNMP Host IP	SNMP Community String	SNMP Message Type	SNMP Community Version
<input type="checkbox"/>	192.168.3.4	1	Traps	v1
				Operate
				Modify

[Reload](#) [Create](#) [Delete](#)

Click **Create** to create a new SNMP Host:

SNMP Community		SNMP Host
IP Version	<input type="text" value="IPv4"/>	
SNMP Host IP	<input type="text"/>	
SNMP Community	<input type="text"/>	
SNMP Message Type	<input type="text" value="Traps"/>	Informs is not supported in version v1
SNMP Community Version	<input type="text" value="v1"/>	
Trap Send	<input type="text"/>	
UDP Port	<input type="text"/>	
Allow Traps	<input type="checkbox"/> snmp <input type="checkbox"/> configure <input type="checkbox"/> authentication	

Click **Modify** to modify feature of SNMP Host;

Click **Delete** to delete the selected SNMP Host.

4.2.3 SNMPv3 Configuration

Click **Security -> Management Access -> SNMPv3 Configuration** at navigation bar in order to enter configuration page as following:

SNMPv3 Group Config	SNMPv3 View	SNMPv3 User Config			
<input type="checkbox"/>	Group Name	Security Level	Read View	Write View	Operate
<input type="checkbox"/>	11	noauth	write		Modify

Click the **Modify** to change the features of SNMPv3 Group Configuration.

Click the **Reload** at the bottom control bar to refresh the configuration information of SNMPv3 Group.

Click **Create** to create a new configuration for SNMPv3 Group:

SNMPv3 Group Config | **SNMPv3 View** | SNMPv3 User Config

SNMPv3 Group Configuration

Group Name

Security Level

Read View

Write View

[Set](#) [Go back](#)

Click **SNMPv3 View** to enter the following view page:

SNMPv3 Group Config | **SNMPv3 View** | SNMPv3 User Config

<input type="checkbox"/>	View Name	OID	View Attribute	Operate
<input type="checkbox"/>	12	23	included	Modify

[Reload](#) [Create](#) [Delete](#)

Click **SNMPv3 User Config** to enter the following configuration page:

SNMPv3 Group Config | SNMPv3 View | **SNMPv3 User Config**

<input type="checkbox"/>	User Name	Group Name	Security Level	Privacy Protocol	Privacy Password	Auth Protocol	Auth Password	Operate
<input type="checkbox"/>	1	2	auth			md5	12345678	Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to change the features of SNMPv3 User Configuration.

Click **Reload** at the bottom control bar to refresh the information of SNMPv3 User Configuration.

Click **Create** to create new configuration of SNMPv3:

SNMPv3 Group Config	SNMPv3 View	SNMPv3 User Config
------------------------	----------------	-----------------------

SNMPv3 User Configuration

User Name	<input type="text"/>
Group Name	<input type="text"/>
Security Level	<input type="text" value="↓"/>
Privacy Protocol	<input type="text" value="des"/>
Privacy Password	<input type="text"/>
Auth Protocol	<input type="text" value="md5"/>
Auth Password	<input type="text"/>

Set Go back

Click **Delete** at bottom control bar to delete the selected configuration information of SNMPv3 Group.

4.2.4 CLI (Command Line Interface)

Click **Security -> Management Access -> CLI** at navigation bar in order to enter **GLOBAL** configuration page as following:

GLOBAL	Login Banner
--------	--------------

Configuration

Time Out(sec)	<input type="text" value="300"/>
---------------	----------------------------------

Set Reload

Terminal's overtime time could be configured at this page, and if configured as 0, it means there would be never overtime.

Click **Login Banner** to enter the following page:

GLOBAL	Login Banner
--------	--------------

Banner Text

Set
Reload

Terminal's Login Banner could be configured at this page.

4.3 Port Security

4.3.1 IP MAC Binding

Click **Security** -> **Port Security** at navigation bar in order, and then click **IP MAC Binding** to enter configuration page as following:

IP MAC Binding	Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Interface Name		Operate	
g0/1		Detail	
g0/2		Detail	
g0/3		Detail	
g0/4		Detail	
g0/5		Detail	
g0/6		Detail	

Click **Detail** to check the IP MAC binding information of that port.

IP MAC Binding		Static Mac Filter Mode		Static Mac Filter		Dynamic Mac Mode	
<input type="checkbox"/>	Serial number	IP Address		MAC Address		Operate	
<input type="checkbox"/>	1	192.168.2.9		0011.1122.2233		Modify	
<input type="checkbox"/>	2	192.168.2.7		2211.3344.5566		Modify	

[Reload](#) [Create](#) [Delete](#) [Go back](#)

Click **Modify** to change the selected binding items of the IP MAC.

Click **Reload** to refresh the configuration of the IP MAC binding.

Click **Create** to create a new IP MAC binding item.

IP MAC Binding	Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Enter a new IP address <input type="text"/> Enter a new MAC <input type="text"/>			

[Set](#) [Reload](#) [Go back](#)

Click **Delete** at the bottom control bar to delete the selected IP MAC binding item.

4.3.2 Static MAC Filter Mode

Click **Security -> Port Security** at navigation bar in order, and then click **Static MAC Filter Mode** to enter configuration page as following:

IP MAC Binding		Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Interface Name	Port Mode	Static MAC Filtration Mode		
g0/1	Access	Disable ▾		
g0/2	Access	Disable ▾		
g0/3	Access	Disable ▾		
g0/4	Access	Disable ▾		
g0/5	Access	Disable ▾		
g0/6	Access	Disable ▾		

[Set](#) [Reload](#)

Interface's Static MAC Filtration Mode could be configured at this page.

4.3.3 Static MAC Filter

Click **Security -> Port Security** at navigation bar in order, and then click **Static MAC Filter** to enter configuration page as following:

IP MAC Binding		Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Interface Name	Operate			
g0/1	Detail			
g0/2	Detail			
g0/3	Detail			
g0/4	Detail			
g0/5	Detail			
g0/6	Detail			

Click **Detail** to check the interface's static MAC filtration items.

IP MAC Binding		Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
<input type="checkbox"/>	Serial number	MAC Address	Operate	
<input type="checkbox"/>	1	2211.3344.5566	Modify	

[Create](#) [Delete](#) [Go back](#)

Click **Modify** to modify static MAC filtration items.

Click **Create** to create new static MAC filtration items.

IP MAC Binding	Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Static MAC Address <input type="text"/>			
Set Go back			

Click **Delete** at bottom control bar to delete the selected static MAC filtration items.

4.3.4 Dynamic MAC Mode

Click **Security -> Port Security** at navigation bar in order, and then click **Dynamic MAC Mode** to enter configuration page as following:

IP MAC Binding	Static Mac Filter Mode	Static Mac Filter	Dynamic Mac Mode
Interface Name	Dynamic MAC Filtration Mode	Max MAC Address	
g0/1	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
g0/2	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
g0/3	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
g0/4	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
g0/5	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
g0/6	<input type="text" value="Disable"/> ▾	<input type="text" value="1"/> (1-2048)	
Set Reload			

Interface's Dynamic MAC Mode could be configured at this page.

4.4 Switchport Protect

Click **Security -> Switchport Protect** at navigation bar in order to enter configuration page as following:

Port Protect Configuration		Port Protect List
Port	Port Protect Group	
g0/1		
g0/2		
g0/3		
g0/4		
g0/5		
g0/6		

Set **Reload**

Set the Port Protect Group at this page, click **Set** at the bottom control bar to finish the setting.

Click **Reload** to refresh the port protection group information.

Click “Port Protect List”, enter the Port Protect Group Creating page:

Port Protect Configuration	Port Protect List
<input type="text" value="Port Protect Group"/>	
<input type="checkbox"/> Select All/Select None	
Help #Port Protect Group 0 is Default Port Protect Group, and it can not be deleted.	

Reload **Create** **Delete**

Click **Reload** at the bottom control bar, refresh the Port Protect Group information.

Click **Delete** at the bottom control bar, delete the selected port protect group.

Click **Create** at the bottom control bar, enter the Port Protect Group Creating page:

Port Protect Configuration

Port Protect List

Create Port Protect Group

Set
Reload
Go back

Click **Set** at the bottom control bar, to finish the setting.

Click **Reload** at the bottom control bar, refresh the Port Protect Group Creating page.

Click **Go Back** at the bottom control bar, go back to the “Port Protect List” page.

4.5 Keepalive

Click **Security** -> **Keepalive** at navigation bar in order to enter port status configuration page as following:

Port	Status	Keepalive Period
g0/1	Disable ▾	(0-32767)Seconds
g0/2	Disable ▾	(0-32767)Seconds
g0/3	Disable ▾	(0-32767)Seconds
g0/4	Disable ▾	(0-32767)Seconds
g0/5	Disable ▾	(0-32767)Seconds
g0/6	Disable ▾	(0-32767)Seconds

Help

#Keepalive Period: its default value is 12 seconds

Set
Reload

Click **Set** at the bottom control bar after configuration, to finish the port status setting.

Click **Reload** at the bottom control bar, refresh the port setting information.

4.6 802.1X Port Authentication

4.6.1 Global

Click **Security -> 802.1X Port Authentication -> Global** at navigation bar in order to enter configuration page as following:

Operation	
<input type="radio"/> On <input checked="" type="radio"/> Off	
Configuration	
Guest VLAN	<input type="checkbox"/>
Vendor permit	<input type="checkbox"/>
Re-authentication	<input type="checkbox"/>
Parameters	
Authentication type	Eap <input type="text"/>
Re-authentication max	5 <1-10>
Timeout	
Quiet period	60 <0-65535>
Re-authentication period	3600 <1-4294967295>
Request period	30 <1-65535>

Configure the enabling/disabling operations of 802.1X port authentication at this page.

4.6.2 Authentication List

Click **Security -> 802.1X Port Authentication -> Authentication List** at navigation bar in order to enter configuration page as following:

<input type="checkbox"/>	Name	Method 1	Method 2	Method 3	Method 4
<input type="checkbox"/>	11	group radius	local	group tacacs+	local-case

Click **Reload** at the bottom control bar, to refresh the authentication list.

Click **Delete** at the bottom control bar, to delete the selected port authentication list.

Click **Create** to create new authentication entry:

New Authentication Entry

Name

Method 1

Method 2

Method 3

Method 4

Set Reload Go back

4.6.3 Port Configuration

Click **Security -> 802.1X Port Authentication -> Port Configuration** at navigation bar in order to enter configuration page as following:

Port	Port control	Forbid multi network adapter	Authentication type	Authentication mode	Accounting	Guest VLAN	Method
g0/1	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	
g0/2	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	
g0/3	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	
g0/4	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	
g0/5	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	
g0/6	Force authorized <input type="text"/>	<input type="checkbox"/>	Eap <input type="text"/>	Single hosts <input type="text"/>	<input type="checkbox"/>	<1-4094>	

Set Reload

You could configure interface's enabling/disabling 802.1x port authentication, authentication type, authentication mode, method and etc at this page.

Note:

Some configurations can only be configured when 802.1x port authentication is enabled.

4.6.4 Statistics

Click **Security -> 802.1X Port Authentication -> Statistics** at navigation bar in order to enter configuration page as following:

Port	EAPOL Start	EAPOL Logoff	EAPOL Invalid	Received EAPOL Total	EAP Response Id	EAP Response Other	EAP Length Error	Transmitted EAPOL Total	EAP Request Id	EAP Other
g0/1	---	---	---	---	---	---	---	---	---	---
g0/2	---	---	---	---	---	---	---	---	---	---
g0/3	---	---	---	---	---	---	---	---	---	---
g0/4	---	---	---	---	---	---	---	---	---	---
g0/5	---	---	---	---	---	---	---	---	---	---
g0/6	---	---	---	---	---	---	---	---	---	---

Reload

All ports' statistic information of 802.1x messages could be checked at this page.

4.7 RADIUS

4.7.1 Global

Click **Security** -> **RADIUS** -> **Global** at navigation bar in order to enter configuration page as following:

RADIUS Configuration

Max.Number of Retransmits <0-100>

Timeout[s] <1-1000>

NAS IP-Address(Attribute 4)

Radius-Server Key

Set **Reload**

Max. Number of retransmits of radius, overtime, NAS and Radius-Server Key could be configured at this page.

4.7.2 Service

Click **Security** -> **RADIUS** -> **Service** at navigation bar in order to enter configuration page as following:

<input type="checkbox"/>	Address	Authentication port	Accounting port
<input type="checkbox"/>	192.168.0.4	1812	1813

[Set](#) [Reload](#) [Create](#) [Delete](#)

Radius server's authentication port and accounting port can be configured at this page.

Click **Set** at the bottom control bar, to finish the setting.

Click **Reload** at the bottom control bar, refresh the authentication port and accounting port information.

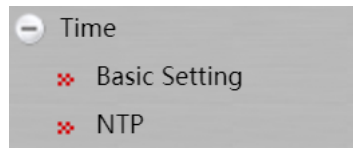
Click **Delete** at the bottom control bar, to delete the selected authentication port and accounting port information of RADIUS Server.

Click **Create** to create new radius server items:

Server Ip Address:

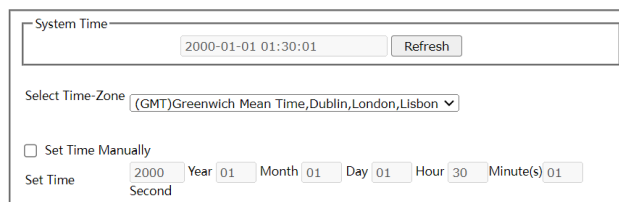
[Set](#) [Go back](#)

5 Time



5.1 Basic Setting

Click **Time** -> **Basic Setting** at navigation bar in order to enter configuration page as following:

A screenshot of the 'System Time' configuration page. The page has a title bar 'System Time' and a text input field containing '2000-01-01 01:30:01' with a 'Refresh' button to its right. Below this is a 'Select Time-Zone' dropdown menu with '(GMT)Greenwich Mean Time,Dublin,London,Lisbon' selected. There is a checkbox labeled 'Set Time Manually' which is currently unchecked. Below the checkbox is a 'Set Time' section with input fields for 'Year' (2000), 'Month' (01), 'Day' (01), 'Hour' (30), and 'Minute(s)' (01). A 'Second' label is positioned below the 'Minute(s)' field.

Set **Reload**

Click **Reload** to refresh the current displayed system time.

System's time-zone could be configured at this page. Select **Set Time Manually** to set system time manually.

5.2 NTP

Click **Time** -> **NTP** at navigation bar in order to enter configuration page as following:

Network Time Synchronization

NTP Master Primary

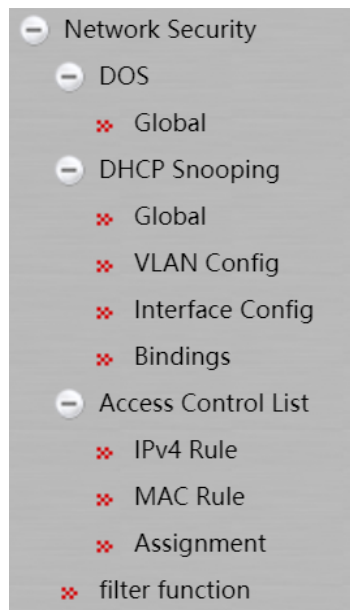
NTP Server One

NTP Server Two

NTP Server Three

NTP server's IP address of NTP (Network Time Synchronization) could be configured at this page.

6 Network Security



6.1 DOS Configuration

6.1.1 DOS Global Configuration

Click **Network Security** -> **DOS** -> **Global** at navigation bar in order to enter DOS global configuration page as following:

Preventing DOS Attack	
ICMP DOS attack checking	<input type="checkbox"/>
Drop IP packets if source ip equal destination ip	<input type="checkbox"/>
Drop packets if TCP/UDP source port equal destination port	<input type="checkbox"/>
Drop if packets with MACSA equal MACDA	<input type="checkbox"/>
Drop TCP packets with invalid TCP flags	<input type="checkbox"/>
Checking TCP DOS fragment attack	<input type="checkbox"/>

Set **Reload**

You could set or cancel the related Preventing DOS Attack according to needs. Click **Set** to save configuration.

6.2 DHCP Snooping Configuration

6.2.1 DHCP Snooping Global Configuration

Click **Network Security -> DHCP Snooping -> Global** at navigation bar in order to enter DHCP Snooping global configuration page as following:

DHCP Snooping Global Config	
DHCP Snooping Global Config	Disable ▾
TFTP Server IP To Save the Port Binding Relationship	<input type="text"/>
TFTP File Name To Save the Port Binding Relationship	<input type="text"/>
Update Interval To Save the Port Binding Relationship	30

Help

#Please remove the binding item and then close the snooping DHCP protocol

Enable global DHCP Snooping protocol to detect all DHCP messages. Relative binding relationships forms. If client obtains addresses by the switch before the command is configured previously, switch cannot add relative binding relationships.

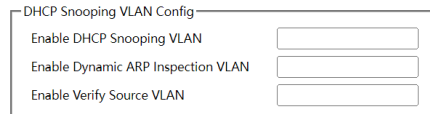
After switch's configuration is saved, restart the switch. All previous configured interface binding relationship would be dropped. At the meantime, the interface has no binding relationship, and switch would denying the forwarding of all IP messages after IP source address monitoring function is enabled. After the interface binding relationship's backup TFTP server is configured, binding relationship would be copied to server by TFTP protocol. After switch restarted, it would download binding list from TFTP server automatically to ensure network's normal operation.

When configuring backup interface binding relationships, save file name on TFTP server. Therefore, different switches can copy their interface binding relationship list to the same TFTP server.

The binding relationship list of interface's MAC address and IP address is dynamic. It is required to check whether the binding is updated. If there is (like binding items are added or deleted), backup should be done again. The default time interval is 30 minutes.

6.2.2 DHCP Snooping VLAN Configuration

Click **Network Security -> DHCP Snooping -> VLAN Config** at navigation bar in order to enter DHCP Snooping VLAN configuration page as following:



DHCP Snooping VLAN Config	
Enable DHCP Snooping VLAN	<input type="checkbox"/>
Enable Dynamic ARP Inspection VLAN	<input type="checkbox"/>
Enable Verify Source VLAN	<input type="checkbox"/>

Set **Reload**

After the DHCP Snooping function is enabled on the VLAN, the DHCP messages received by all untrusted physical ports on the entire VLAN will be legally inspected. Any responded DHCP messages received by untrusted physical ports within a VLAN will be lost to prevent users from counterfeiting messages or prevent a mistaken DHCP server from assigning addresses. For the DHCP requests from untrusted ports, if the MAC address does not match the hardware address field in the messages, the requests will be considered as attacking messages counterfeited by users for the purpose of DHCP DOS (denial of service) and the switch will be abandoned too.

Monitor the ARP dynamics of all physical ports of a VLAN. If the source MAC and IP addresses of the ARP messages received by the ports do not match the MAC and IP address binding relations configured for the ports, the messages cannot be processed. The binding relations configured for the ports may be dynamic along with the DHCP or manually configured. If no MAC and IP address binding relations are configured for a physical port, the switch will refuse to forward all the ARP messages.

In a VLAN where IP source addresses are monitored, if the source MAC and IP addresses of the IP messages received by all the physical ports in the VLAN do not match the MAC and IP address binding relations configured for the ports, the messages cannot be processed. The binding relations configured for the ports may be dynamic along with the DHCP or manually configured. If no MAC and IP address binding relations are configured for a physical port, the switch will refuse to forward all the IP messages received by all the ports.

6.2.3 DHCP Snooping Interface Configuration

Click **Network Security -> DHCP Snooping -> Interface Config** at navigation bar in order to enter DHCP Snooping Port configuration page as following:

Port	DHCP Trust Port	ARP Inspection Trust Port	IP Source Trust Port
g0/1	Distrust	Distrust	Distrust
g0/2	Distrust	Distrust	Distrust
g0/3	Distrust	Distrust	Distrust
g0/4	Distrust	Distrust	Distrust
g0/5	Distrust	Distrust	Distrust
g0/6	Distrust	Distrust	Distrust

Set Reload

If a port is configured as the DHCP-trusted port, the DHCP messages received by this port will not be inspected.

The ARP monitoring function will not be enabled for ARP-trusted ports. Ports are untrusted by default.

The source address inspection function is not enabled for ports trusted by IP source addresses.

6.2.4 DHCP Snooping Bindings

Click **Network Security -> DHCP Snooping -> Bindings** at navigation bar in order to enter DHCP Snooping Binding configuration page as following:

<input type="checkbox"/>	MAC Address	IP Address	Interface Name	VLAN
<input type="checkbox"/>	22:11:22:33:55:44	192.168.0.9	GigaEthernet0/1	1

Reload Create Delete

For hosts that do not use DHCP to obtain addresses, users can manually add entries for binding at the switch ports to enable the host to smoothly access to the network. The “no” command can be used to delete the binding entries.

Entries bound manually proceed over those bindings through dynamic configuration. If the MAC address of the configured entry is the same as the MAC address of the dynamically configured entry,

the latter will be updated based on the former. The MAC address is the only one index for binding entries of a port.

Click "Create" to create entries for binding manually configured DHCP Snooping ports.

New entry

MAC Address

IP Address

Port

VLAN ID

Help

#Before the configuration, please open the DHCP Snooping protocol.

[Set](#) [Go back](#)

Note:

Binding entries can be created only if enabling DHCP Snooping protocol.

6.3 Access Control List

6.3.1 IPv4 Rules

Click **Network Security** -> **Access Control List** -> **IPv4 Rules** at navigation bar in order to enter IPv4 rules' page as following:

<input type="checkbox"/>	Name of the IP ACL	Attribute of the IP ACL	Operate
<input type="checkbox"/>	11	standard	Detail

[Reload](#) [Create](#) [Delete](#)

Click **Delete** at the bottom control bar, delete the selected access control list.

Click **Detail** on the right of the table to enter the IP Access Control List page.

<input type="checkbox"/>	Authority	Src IP	Src IP Mask	Record the log	Operate
<input type="checkbox"/>	permit	any			Modify

[Reload](#) [Create](#) [Delete](#) [Go back](#)

Click **Modify** on this page, to configure the rules of corresponding IP Access Control list.

Click **Go Back** on the IP Access Control List page to go back to IPv4 Rules' Page.

Click **Create** to create an IP access control list.

Name of the IP
ACL

Attribute

Click **Delete** to delete the access control list.

6.3.2 MAC Rules

Click **Network Security -> Access Control List -> MAC Rules** at navigation bar in order to enter MAC rules' page as following:

<input type="checkbox"/>	Name of the MAC Access Control List	Operate
<input type="checkbox"/>	33	Detail

[Reload](#) [Create](#) [Delete](#)

Click **Create** at the bottom control bar to create a MAC access control list. Click **Delete** to delete the selected access control list.

Name of the MAC ACL

Set **Go back**

6.3.3 Assignment

Click **Network Security -> Access Control List -> Assignment** at navigation bar in order to enter distribution page of access control list as following:

Port	Ingress IP ACL	Ingress MAC ACL
g0/1		
g0/2		
g0/3		
g0/4		
g0/5		
g0/6		

Set **Reload**

6.4 Filter Function

Click **Network Security -> Filter Function** at navigation bar in order to enter the filter function global page as following:

Global port configuration

operation

on off

Filter Global configuration

filter period(s)

filter threshold

filter block-time(s)

Help

#Only global and ports are configured, the filter function to be effective.

Set **Reload**

Click **Set** at the bottom control bar to finish the global configuration of filter function.

Click **Reload** at the bottom control bar to refresh the global configuration of filter function.

Click “Port Configuration” on the right of “Global”, enter the port configuration page as follows:

Global port configuration

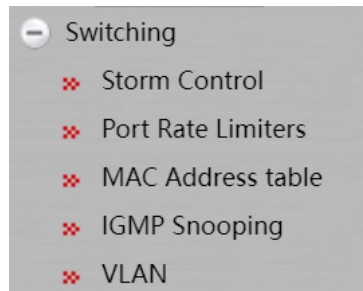
interface	arp
g0/1	Disable ▼
g0/2	Disable ▼
g0/3	Disable ▼
g0/4	Disable ▼
g0/5	Disable ▼
g0/6	Disable ▼

Set **Reload**

Click **Set** at the bottom control bar, to finish the configuration of port.

Click **Reload** at the bottom control bar, refresh the port configuration of filter function.

7 Switching



7.1 Storm Control

Click **Switching** -> **Storm Control** at navigation bar in order to enter broadcast storm control, multicast storm control and unicast storm control configuration pages.

7.1.1 Broadcast Storm Control

Broadcast Storm			Multicast Storm	Unicast Storm
Port	Status	Threshold		
g0/1	Disable ▾	(1-262143) pps		
g0/2	Disable ▾	(1-262143) pps		
g0/3	Disable ▾	(1-262143) pps		
g0/4	Disable ▾	(1-262143) pps		
g0/5	Disable ▾	(1-262143) pps		
g0/6	Disable ▾	(1-262143) pps		

Set
Reload

Through the dropdown boxes in the **Status** column, you can decide whether to enable broadcast storm control on a port. In the **Threshold** column you can enter the threshold value of the broadcast packets. The legal threshold range for each port is given behind the threshold.

7.1.2 Multicast Storm Control

Broadcast Storm			Multicast Storm			Unicast Storm		
Port	Status			Threshold				
g0/1	Disable ▾			(1-262143) pps				
g0/2	Disable ▾			(1-262143) pps				
g0/3	Disable ▾			(1-262143) pps				
g0/4	Disable ▾			(1-262143) pps				
g0/5	Disable ▾			(1-262143) pps				
g0/6	Disable ▾			(1-262143) pps				

[Set](#) [Reload](#)

Through the dropdown boxes in the **Status** column, you can decide whether to enable multicast storm control on a port. In the **Threshold** column you can enter the threshold value of the multicast packets. The legal threshold range for each port is given behind the threshold.

7.1.3 Unicast Storm Control

Broadcast Storm			Multicast Storm			Unicast Storm		
Port	Status			Threshold				
g0/1	Disable ▾			(1-262143) pps				
g0/2	Disable ▾			(1-262143) pps				
g0/3	Disable ▾			(1-262143) pps				
g0/4	Disable ▾			(1-262143) pps				
g0/5	Disable ▾			(1-262143) pps				
g0/6	Disable ▾			(1-262143) pps				

[Set](#) [Reload](#)

Through the dropdown boxes in the **Status** column, you can decide whether to enable unicast storm control on a port. In the **Threshold** column you can enter the threshold value of the unicast packets. The legal threshold range for each port is given behind the threshold.

7.2 Port Rate Limits

Click **Switching -> Port Rate Limits** at navigation bar in order to enter port rate limit page as following:

Port	Receive Status	Receive Speed Unit	Receive Speed	Send Status	Send Speed Unit	Send Speed
g0/1	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)
g0/2	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)
g0/3	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)
g0/4	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)
g0/5	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)
g0/6	Disable	64kbps	(1-15625)	Disable	64kbps	(1-15625)

Set Reload

Set rate-limit on ports receive speed and send speed of port at this page. By default all ports' speed is not limited. Receive speed and send speed can be configured according to ratio or switch's defined unit.

7.3 MAC Address Table

Click **Switching -> MAC Address Table** at navigation bar in order to enter static MAC address table as following:

Static MAC address table		Aging configuration			
<input type="checkbox"/>	Index	Static MAC Address	VLAN ID	Port	Operate
<input type="checkbox"/>	1	2233.1122.4455	1	G0/1	Modify

Reload Create Delete

Static MAC address, VLAN ID and index are shown on the page. Click **Modify** or **Create** to enter static MAC address configuration page and do modifications on configured static MAC address table.

Static MAC address table Aging configuration

Static MAC Address		<input type="text"/>
VLAN ID		<input type="text"/>
Configured Port List	<input type="button" value=" >>"/> <input type="button" value=" <<"/>	Available Port List
<input type="text"/>		<input type="text" value="g0/1"/> <input type="text" value="g0/2"/> <input type="text" value="g0/3"/> <input type="text" value="g0/4"/> <input type="text" value="g0/5"/> <input type="text" value="g0/6"/>

Click “Aging Configuration” on the right of “Static MAC Address Table”, enter the aging configuration page:

Static MAC address table Aging configuration

Aging Configuration
Aging time(s) <input type="text" value="300"/>

Help

#Permitted scope of aging time: 10-1000000s, fill 0 means is disabled aging

7.4 IGMP Snooping

7.4.1 IGMP Snooping Configuration

Click Switching -> IGMP Snooping, at navigation bar in order, and select “IGMP Snooping” tab page to enter IGMP Snooping configuration page as following:

IGMP Snooping	IGMP Snooping Vlan	Static Multicast Mac	Multicast list
Multicast Filtration Mode			Transfer Unk ▼
IGMP Snooping			Disable ▼
Enable Auto Query			Disable ▼

Help

#Before you set the multicast filtration mode to 'Discard Unknown', you must enable IGMP Snooping or the existing IGMP Snooping VLAN.

#When you have configured and enabled the multicast filtration mode to 'Discard Unknown', disabling the global IGMP Snooping will cause the multicast filtration mode to become 'Transfer Unknown'

[Set](#)

Whether switch forwarding unknown multicast, whether enabling IGMP-Snooping and whether taken as IGMP's Querier can be configured at this page.

7.4.2 IGMP-Snooping VLAN

Click **Switching -> IGMP Snooping**, at navigation bar in order, and select "IGMP Snooping VLAN" tab page to enter IGMP Snooping VLAN configuration page as following:

IGMP Snooping	IGMP Snooping Vlan	Static Multicast Mac	Multicast list
<input type="checkbox"/>	VLAN ID	Status of the IGMP Snooping Vlan	Immediate-leave
<input type="checkbox"/>	1	Running	Disable
			Operate
			Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify**, you can modify the member port, running status and immediate-leave of IGMP-Snooping VLAN. Click **Create**, IGMP-snooping VLAN configuration can be done. Through Web up to 6 physical ports can be set on each IGMP snooping VLAN. Click **Delete**, a selected IGMP-Snooping VLAN can be deleted.

IGMP Snooping IGMP Snooping Vlan Static Multicast Mac Multicast list

Revising the IGMP Snooping VLAN Config

VLAN ID

Immediate-leave Disable ▾

Configured Mrouter Port List

>>

<<

Available Port List

g0/1

g0/2

g0/3

g0/4

g0/5

g0/6

Set Reload Go back

When an IGMP-Snooping VLAN is created, its VLAN ID can be set; but when the IGMP-Snooping VLAN is modified, its VLAN ID cannot be modified.

You can click “>>” and “<<” to delete and add a routing port.

7.4.3 Static Multicast Mac Address Configuration

Click **Switching -> IGMP Snooping**, at navigation bar in order, and select “Static Multicast Address” tab page to enter static multicast address page as following:

IGMP Snooping IGMP Snooping Vlan Static Multicast Mac Multicast list

Static Multicast Address Config

VLAN ID

Multicast IP Address

Assignment Port ▾

Static Multicast List Info

	VLAN ID	Group	Port
<input type="checkbox"/>			

Set Reload Delete

On this page, the currently existing static multicast groups and port groups in each static multicast group are shown.

Click **Reload** to refresh the contents in the list.

7.4.4 Multicast list

Click **Switching -> IGMP Snooping**, at navigation bar in order, and select “Multicast List” tab page to enter multicast member list configuration page as following:

IGMP Snooping	IGMP Snooping Vlan	Static Multicast Mac	Multicast list
	VLAN ID	Group	Type
	6	235.2.3.1	USER
			Port
			g0/4

The multicast groups in current network and ports’ set where every group member exists counted by IGMP-Snooping, are shown on this page.

Click **Reload** to refresh the contents in the list.

Note:

By default, a multicast list can display up to 15 VLAN items. You can modify the number of multicast items by running **ip http web igmp-groups** after you log on to the device through the Console port or Telnet.

7.5 VLAN

7.5.1 VLAN configuration

Click **Switching -> VLAN**, at navigation bar in order, and select “VLAN configuration” tab page to enter VLAN configuration page as following:

Vlan Configuration	Vlan Batch Configuration	Port Vlan
<input type="checkbox"/>	VLAN ID	VLAN Name
<input type="checkbox"/>	1	Default
		Operate
		Modify

current 1 page/total 1 page firstpage beforepage nextpage lastpage goto page

[Create](#) [Delete](#)

Click **Modify** after VLAN entry to change VLAN name and the VLAN’s port feature.

Select the check box before item and click **Delete** at the bottom control bar to delete the selected VLAN.

Note:

By default, the maximum quantity of shown items of VLAN list is 100. If you want to configure more VLAN through Web, please login switch by Console port or Telnet to enter global configuration mode and use command **ip http web max-vlan** to modify maximum shown VLAN quantity.

Click **Create** or **Modify** to enter VLAN configuration page.

Vlan Configuration **Vlan Batch Configuration** Port Vlan

Revising VLAN Config

VLAN ID:

VLAN Name:

Port	Default VLAN	Mode	Untag or not	Allow or not
g0/1	1 <1-4094>	Access ▾	No ▾	Yes ▾
g0/2	1 <1-4094>	Access ▾	No ▾	Yes ▾
g0/3	1 <1-4094>	Access ▾	No ▾	Yes ▾
g0/4	1 <1-4094>	Access ▾	No ▾	Yes ▾
g0/5	1 <1-4094>	Access ▾	No ▾	Yes ▾
g0/6	1 <1-4094>	Access ▾	No ▾	Yes ▾

Help

#The 'Allow or not' option means whether to allow to pass through the packets with the VLAN labels after they come on the local interface

#The 'Untag or not' option means whether to remove the packet's vlan label when the packet leaves the interface

#The 'Access mode' option means the port belongs to only one Vlan, generally used to connect the computer port

#The 'Trunk mode' option means the port allows multiple vlans through, can receive and send multiple Vlan packet, commonly used to switch between ports.

[Set](#) [Reload](#) [Go back](#)

If you want to create a new VLAN, enter a VLAN ID and a VLAN name; the VLAN name can be null.

Through the port list, you can set for each port the default VLAN, the VLAN mode (Trunk or Access), whether to allow the entrance of current VLAN packets and whether to execute the untagging of the current VLAN when the port works as the egress port.

Note:

When a port in Trunk mode serves as an egress port, it will untag the default VLAN by default.

7.5.2 VLAN Batch Configuration

Click **Switching -> VLAN**, at navigation bar in order, and select "VLAN Batch Configuration" tab page to enter VLAN configuration page as following:

Vlan Configuration | Vlan Batch Configuration | Port Vlan

VLAN Configured 1

VLAN Add

VLAN Delete

Help
 #VLAN ID(1-4094), such as (1,3,5,7) Or (1,3-5,7) Or (1-7) Or (1 3,5 7-9)
 #Delete VLAN:Can only delete the created VLAN

Note:
 Before VLAN to be deleted, it should be added first.

7.5.3 Port VLAN Configuration

Click **Switching -> VLAN**, at navigation bar in order, and select "Port VLAN" tab page to enter port VLAN configuration page as following:

Vlan Configuration | Vlan Batch Configuration | Port Vlan

Port Name	PVID	Mode	VLAN-allowed Range	VLAN-untagged Range	Operate
g0/1	1	Access	1-4094	1	Modify
g0/2	1	Access	1-4094	1	Modify
g0/3	1	Access	1-4094	1	Modify
g0/4	1	Access	1-4094	1	Modify
g0/5	1	Access	1-4094	1	Modify
g0/6	1	Access	1-4094	1	Modify

Help
 #VLAN-allowed and VLAN-untagged: (1-4094), such as (1,3,5,7) Or (1,3-5,7) Or (1-7) Or (1 3,5 7-9)

This page shows all ports' PVIDs, modes, allowed VLAN range and VLAN range without tag. Click **Modify** to change port's VLAN feature configuration, VLAN-allowed configuration and VLAN-untagged configuration.

Configuring the Attribute of the Interface VLAN

Port Name	g0/1	
PVID	<input type="text" value="1"/>	(1-4094)
Mode	Access	
VLAN-allowed Range	1-4094	
VLAN-untagged Range	1	

VLAN-allowed Config

VLAN-allowed Range	<input type="text" value="1-4094"/>	
Add the VLAN-allowed range	<input type="text"/>	
Remove the VLAN-allowed range	<input type="text"/>	

VLAN-untagged Config

VLAN-untagged Range	<input type="text" value="1"/>	
Add the VLAN-untagged range	<input type="text"/>	
Remove the VLAN-untagged range	<input type="text"/>	

Help

#VLAN-allowed and VLAN-untagged: (1-4094), such as (1,3,5,7) Or (1,3-5,7) Or (1-7) Or (1 3,5 7-9)

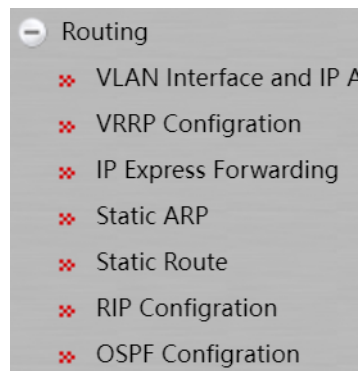
#Allowed-VLAN and Untagged-VLAN: First execute the 'Add' action and then the 'Remove' action

#Do not press the **Enter** key.

[Set](#) [Reload](#) [Go back](#)

Note:
 VLAN-allowed and VLAN-untagged: Please add first before do delete operation.
 Please do not use Enter key.

8 Routing



8.1 VLAN Interface and IP Address Configuration

Click **Routing** -> **VLAN Interface and IP Address** at navigation bar in order, and then enter configuration page as following:

<input type="checkbox"/>	Name of the VLAN Interface	IP Attribute	IP Address	Directed-Broadcast	Operate
<input type="checkbox"/>	1	Manual Config	192.168.2.1/24;	off	Modify
<input type="checkbox"/>	2	Manual Config		on	Modify

current 1 page/total 1 page firstpage beforepage nextpage lastpage goto page

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to enter relative VLAN interface items to do the modification.

Click **Create** to create a new VLAN interface items.

Click **Delete** to delete the selected VLAN interface items.

You can change the VLAN name when you click the “Create” bottom. It’s cannot change VLAN name when click “Modify” just can do the VLAN related items modification.

IP Attribute
 VLAN Interface Name
 IP Attribute Manual Config
 Directed-Broadcast On Off

Primary IP Address
 IP Address
 MASK address

Secondary IP Address 1
 IP Address
 MASK address

Secondary IP Address 2
 IP Address
 MASK address

Help

#The primary IP must be configured for the VLAN interface before the secondary IP is configured

Set Reload Go back

Note:

Before setting the VLAN secondary IP address, you need to set the Primary IP Address first.

8.2 VRRP Configuration

Click **Routing -> VRRP Configuration** at navigation bar in order, and then enter VRRP List page as following:

<input type="checkbox"/>	VLAN ID	VRRP ID	VRRP Description	Virtual IP Address	Priority	Operate
<input type="checkbox"/>	1	2		192.168.2.8/24	2	Modify

Reload Create Delete

Click **Reload** at the bottom control bar, refresh VRRP list information.

Click **Delete** at the bottom control bar, delete the selected VRRP configuration information.

Click **Create** at the bottom control bar, to enter new VRRP configuration page:

VRRP Configuration	
VLAN ID	<input type="text"/>
VRRP Group ID	<input type="text"/>
Virtual IP Address	<input type="text"/>
Mask	<input type="text"/>
Priority	<input type="text"/>

VRRP Other Configuration	
Authentication	<input type="text"/>
VRRP Description	<input type="text"/>
VRRP Preempt	<input checked="" type="radio"/> On <input type="radio"/> Off
Source-Mac-Use-System	<input type="radio"/> On <input checked="" type="radio"/> Off

Help

#If priority is not configured,the default priority is 100
 #VRRP Other Configuration can not set

[Set](#) [Reload](#) [Go back](#)

Click **Set** at the bottom control bar, finish the configuration of VRRP and other information.

Click **Go Back** at the bottom control bar, back to the VRRP List Page.

8.3 IP Express Forwarding

Click **Routing -> IP Express Forwarding** at navigation bar in order, and then enter IP Express Forwarding switch page as following:

IP Express Forwarding	
	<input checked="" type="radio"/> On <input type="radio"/> Off

[Set](#) [Reload](#)

Click **Set** at the bottom control bar, to finish the setting of IP Express Forwarding.

Click **Reload** at the bottom control bar, refresh the information of IP Express Forwarding information.

8.4 Static ARP

Click **Routing -> Static ARP** at navigation bar in order, and then enter configuration page as following

<input type="checkbox"/>	IP Address	MAC Address	Interface VLAN	Operate
<input type="checkbox"/>	192.168.0.2	22:00:11:33:22:33	2	Modify
<input type="checkbox"/>	192.168.0.9	22:11:22:33:55:44	1	Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to modify the current Static ARP.

Click **Delete** to delete the selected Static ARP items.

Click **Create** to create a new Static ARP.

ARP Config

IP Address

MAC Address

Interface VLAN

Help

#MAC: The mac address only supports the unicast address and has the following formats:XXXXXXXXXXXX,XXXX.XXXX.XXXX,XXXXXXXXXXXXXXXX,XX-XX-XX-XX-XX, and X is Hex number

[Set](#) [Reload](#) [Go back](#)

8.5 Static Route

Click **Routing** -> **Static Route** at navigation bar in order, and then enter configuration page as following:

<input type="checkbox"/> Default Route	Dest IP Segment	Dest IP Mask	Interface Type	VLAN Interface	Gateway's IP Address	Forwarding Routing Address	Distance metric	Routing Tag	Specify the route description	Operate
<input type="checkbox"/>	false	192.168.3.0	255.255.255.0	Null0						Modify

[Reload](#) [Create](#) [Delete](#)

Click **Modify** to modify the current Static Route.

Click **Reload** to refresh the static route information.

Click **Delete** to delete the selected Static Route items.

Click **Create** to create a new Static Route.

Static Route Config

Default Route

Dest IP Segment

Dest IP Mask

Interface Type

Interface Vlan

Gateway's IP Address

Forwarding Routing address

Distance metric

Routing Tag

Specify Route Description

[Set](#) [Reload](#) [Go back](#)

Note:

Only the Layer3 switches have the static route configuration page.

8.6 RIP Configuration

8.6.1 RIP Configuration

Click **Routing -> RIP Configuration** at navigation bar in order, and then enter RIP configuration page as following:

RIP Configuration		RIP Router Entries		
<input type="checkbox"/>	Process ID	Auto-Summary	Version	Operate
<input type="checkbox"/>	22222	on	V1	Edit

[Reload](#) [Create](#) [Delete](#)

You should have created a RIP process firstly, before do the RIP entry configuration. When **Edit** the RIP process can create the new RIP process or delete it also.

Click **Create** to create a new RIP process.

RIP Configuration RIP Router Entries

Creating the RIP Process

RIP Process

Auto-Summary On Off

Version ▼

[Set](#) [Reload](#) [Go back](#)

8.6.2 RIP Router Entries

Click **Routing -> RIP Configuration** at navigation bar in order, and then click **RIP Router Entries** to enter RIP Router Entries configuration page as following:

RIP Configuration RIP Router Entries

RIP Route Config

RIP Process

[Set](#) [Reload](#)

Enter the created RIP process ID, Click **Set** to enter the selected RIP Router Entries page.

RIP Configuration		RIP Router Entries	
<input type="checkbox"/>	Interface	Mask	Address
<input type="checkbox"/>	VLAN3	0.0.0.0	0.0.0.0

[Reload](#) [Create](#) [Delete](#)

Click **Create** to create a new RIP Router Entries of selected RIP process.

RIP Configuration		RIP Router Entries	
		RIP Process ID2	
VLAN Interface		<input type="text"/>	

[Set](#) [Reload](#) [Go back](#)

8.7 OSPF Configuration

8.7.1 OSPF process

Click **Routing -> OSPF Configuration** at navigation bar in order, and then click **OSPF Process** to enter configuration page as following:

OSPF Process	OSPF Router Entries
<input type="checkbox"/>	Process ID
<input type="checkbox"/>	1
<input type="checkbox"/>	2

[Reload](#) [Create](#) [Delete](#)

You should have created a OSPF process firstly, before to do the OSPF Router Entries configuration otherwise cannot do any editing.

Click **Create** to entry the RIP process creating page.

OSPF Process	OSPF Router Entries
Creating the OSPF Process	
OSPF Process	<input type="text"/>

[Set](#) [Go back](#)

8.7.2 OSPF Router Entries

Click **Routing** -> **OSPF Configuration** at navigation bar in order, and then click **OSPF Router Entries** to enter OSPF Router Entries configuration page as following:

OSPF Process OSPF Router Entries

OSPF Route Config

OSPF Process

[Set](#) [Reload](#)

Enter the OSPF process ID which was created already, click **Set** to enter the selected OSPF Router Entries configuration page.

OSPF Process	OSPF Router Entries		
<input type="checkbox"/>	Network Number	Mask	Area
<input type="checkbox"/>	192.169.5.0	255.255.255.0	1

Click **Create** to create the OSPF Router Entries of OSPF process selected.

OSPF Process OSPF Router Entries

OSPF Process ID

Network Number

Mask

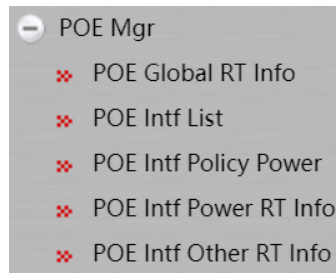
Area

Help
#The area can be an integer or IP

[Set](#) [Reload](#) [Go back](#)

The format that the **Area** column can accept is an integer or IP address.

9 POE Mgr



9.1 POE Global RT information

Click **POE Mgr -> POE Global RT Info** at navigation bar in order, and then enter the POE Global Realtime Information page as following:

POE Global Realtime Info	
POE Chip	RTL8238B
POE Port Number	4
PSE Total Power	120000 mW
PSE Usage Threshold	100%
PSE Alarm Power	120000 mW
PSE Consumed Power	0 mW
PSE Temperature	30 °C

Reload

This page shows the POE Chip, POE port number, PSE Total Power, PSE Usage Threshold, PSE Alarm Power, PSE Consumed Power and PSE Temperature.

9.2 POE Interface List

Click **POE Mgr -> POE Intf List** at navigation bar in order, and then enter the POE Interface List page as following:

Port	Port Max Power	Port Priority	Force Connection	POE Interface Description
g0/1	30000 mw	Low Priority	Disable	
g0/2	30000 mw	Low Priority	Disable	
g0/3	30000 mw	Low Priority	Disable	
g0/4	30000 mw	Low Priority	Disable	

Set Reload

You can set the Port Max Power, Port Priority (Critical Priority, High Priority, Low Priority), Force Connection (Enable, Disable) and POE Interface Description.

Click the **Set** at the bottom control bar, to save the changing configurations.

Click the **Reload** to refresh the information of the POE port.

9.3 POE Interface Policy Power

Click **POE Mgr -> POE Intf Policy Power** at navigation bar in order, and then enter the POE Port Policy Power page as following:

Port	POE Function	Time Range
g0/1	Enable ▾	
g0/2	Disable ▾	
g0/3	Enable ▾	
g0/4	Enable ▾	

Set **Reload**

On this page, you can set the POE function (Enable, Disable) of each POE port. When the POE function disabled, the Time Range can be set. After all the POE ports configured, then click the **Set** at the bottom control bar to finish the settings.

Click Reload to refresh the Information of this page.

9.4 POE Interface Power Realtime Information

Click **POE Mgr -> POE Intf Power RT Info** at navigation bar in order, and then enter the POE Port Power Realtime Information page as following:

Port	Current Power	Setting Max Power	Average Power	Peak Power	Bottom Power
g0/1	0mw	30000mw	-	-	-
g0/2	0mw	30000mw	-	-	-
g0/3	0mw	30000mw	-	-	-
g0/4	0mw	30000mw	-	-	-

PSE Total Power 0

Reload

On this page, you can check the POE port's power information, such as Current Power, Setting Max Power, Average Power, Peak Power, Bottom Power.

Click **Reload** to refresh the information on this page.

9.5 POE Interface Other Realtime Information

Click **POE Mgr -> POE Intf Other RT Info** at navigation bar in order, and then enter the POE Port Other Realtime Information page as following:

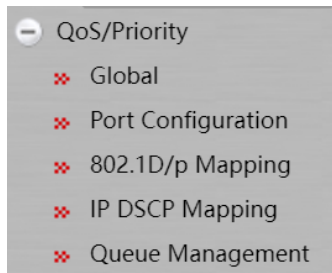
Port	POE Port Detection Status	POE Port Power Supply	POE IEEE Class	POE Port Current
g0/1	Searching	Signal	0	0mA
g0/2	Searching	Signal	0	0mA
g0/3	Searching	Signal	0	0mA
g0/4	Searching	Signal	0	0mA

Reload

On this page, you can check other realtime information of each POE port, such as POE Port Detection Status, POE Port Power Supply, POE IEEE Class, POE Port Current.

Click Reload at the bottom control bar to refresh the information of this page.

10 QoS/Priority



10.1 Global

Click **QoS/Priority** -> **Global** at navigation bar in order, and then enter the global configuration page as following:

A screenshot of the 'QoS Global' configuration page. The page has a title 'QoS Global' and three configuration items, each with a label and a dropdown menu:

- Schedule Policy: sp
- Default CoS Value: 0
- Trust Priority: cos

Help

#The 'sp' means Strict Priority

#The 'wrr' means Weighted Round Robin

#The 'drr' means Deficit Round Robin

#The 'fcs' means First come, first served

#The 'wfq' means Weighted Fair Queueing.

Set Reload

You can do the settings of Schedule Policy, Default CoS Value and Trust Priority in the QoS Global page.

10.2 Port Configuration

Click **QoS/Priority** -> **Port Configuration** at navigation bar in order, and then enter the configuration page as following:

Port	CoS value
g0/1	▼
g0/2	▼
g0/3	▼
g0/4	▼
g0/5	▼
g0/6	▼

Set **Reload**

You can set the Port CoS value by port, and then click **Set** to save the changes.

10.3 802.1D/p Mapping

Click **QoS/Priority -> 802.1D/p Mapping** at navigation bar in order, and then enter the configuration page as following:

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

Set **Reload**

Click **Set** to save all 802.1D/p mapping configurations.

10.4 IP DSCP Mapping

Click **QoS/Priority -> IP DSCP Mapping** at navigation bar in order, and then enter the configuration page as following:

DSCP	Mapping DSCP Value	Mapping Priority
0		0
1		0
2		0
3		0
4		0
5		0
6		0
7		0
8		0
9		0
10		0
11		0
12		0
13		0
14		0

There are listed the 64 values of DSCP in the IP DSCP mapping page, you can set the mapping value per each DSCP.

Click **Clear** and then clean all of the DSCP mapping configuration.

Click **Reload** to refresh the information of each DSCP.

Click **Set** to save the changes of the DSCP.

Note:

The number of table parameter may be different between different device model.

10.5 Queue Management

Click **QoS/Priority** -> **Queue Management** at navigation bar in order, and then enter the configuration page as following:

Click **Set** to save all configuration.

Queue ID	Bandwidth Weight
1	1 (1-127)
2	1 (1-127)
3	1 (0-127)
4	1 (0-127)
5	1 (0-127)
6	1 (0-127)
7	1 (0-127)
8	1 (0-127)

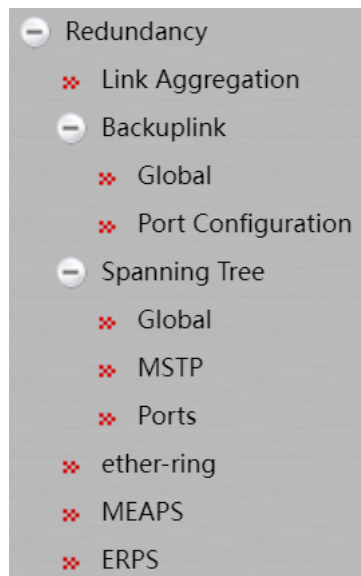
Help

#if the bandwidth of queue has been set to 0, the queue after this also must be set to 0

Note:

If one Queue ID set the bandwidth weight to Zero value. then the weight value of the other queue ID must be set to Zero.

11 Redundancy



11.1 Link Aggregation Configuration

11.1.1 Port Aggregation Configuration

Click **Redundancy** -> **Link Aggregation** at navigation bar in order, and then enter the link aggregation configuration port channel page as following:

Port Channel		Loading Balance					
<input type="checkbox"/>	Aggregation Group	Mode	Configure port members	Valid port members	Speed	State	Operate
<input type="checkbox"/>	p1	Static	g0/1			down	Modify

[Create](#) [Delete](#)

Click **Modify** to modify the member port and aggregation mode of the aggregation port.

Click **Create** to create a new aggregation group. As much as 32 aggregation groups can be configured through Web. Each group can configure at most 8 physical port aggregations.

Click **Delete** to delete the selected aggregation group.

Aggregation Group P1

Mode No Setting

Configured port List

Available Port List

g0/2
g0/3
g0/4
g0/5
g0/6

>> <<

An aggregation group is selectable when it is created but is not selectable when it is modified.

When a member port exists on the aggregation port, you can choose the aggregation mode to be Static, LACP Active or LACP Passive.

You can add or delete the aggregation group member port by buttons “<<” or “>>”.

11.1.2 Port Channel Global Loading Balance

Some models support link aggregation load balancing configuration and others not, but the configuration can be done in the global configuration mode.

Port Channel		Loading Balance
Port Channel	Loading Balance Mode	
p1	SRC MAC <input type="button" value="v"/>	
p2	DST MAC <input type="button" value="v"/>	

You can set different aggregation modes for different aggregation groups.

11.2 Backup Link

11.2.1 Backup Link Global Configuration

Click **Redundancy** -> **Backuplink** -> **Global** at navigation bar in order, and then enter the link backup global configuration page as following:

<input type="checkbox"/>	Group ID	Preemption Mode	Preemption Delay	Operate
<input type="checkbox"/>	2	No Preemption		Modify

[Create](#) [Delete](#)

Click **Modify** on the right of the entry and configure the preemption mode and the preemption delay mode of the link backup group.

The page lists current configured link backup group, including the preemption mode and the preemption delay mode. Click **Create** to create a new link backup group.

Group ID	<input type="text"/>
Preemption Mode	<input type="text" value="No Preemption"/>
Preemption Delay	<input type="text"/>

[Set](#) [Reload](#) [Go back](#)

Note:

1. There are supported 8 group numbers of link backup group in this system.
2. The preemption mode of the link backup group decides the policy of the primary port and the backup port selecting forwarding packets.

11.2.2 Link Backup Protocol Port Configuration

Click **Redundancy -> Backuplink -> Port Configuration** at navigation bar in order, and then enter the backup link protocol port configuration page as following:

Interface Name	Group ID	Interface Attribute	MMU Attribute	Shareload VLAN	Operate
g0/1					Modify
g0/2					Modify
g0/3					Modify
g0/4					Modify
g0/5					Modify
g0/6					Modify

[Set](#) [Reload](#)

The page lists the member port has joined the backup link group, port attribute of the member port, MMU attribute, Share load vlan. MMU sender can transmit the message to MMU receiver to make the receiver quickly update the mac address table.

Click **Modify** on the right of the entry and configure the link backup protocol of the port.

Interface Name	g0/1
Group ID	<input type="text"/>
Interface Attribute	<input type="text"/>
MMU Attribute	<input type="text"/>
Shareload VLAN	<input type="text"/>

[Set](#) [Reload](#) [Go back](#)

The link backup group which has been configured to be primary port cannot be configured other port as the primary. In the same way, the link backup group which has been configured backup port cannot be configured other port as backup.

11.3 Spanning Tree

11.3.1 Global

Click **Redundancy -> Spanning Tree -> Global** at navigation bar in order, and then enter the spanning tree global configuration page as following:

Root STP Config	
Spanning Tree Priority	32768
MAC Address	3029.BE91.0031
Hello Time	2
Max Age	20
Forward Delay	15

Local STP Config	
Protocol Type	RSTP
Spanning Tree Priority	32768
MAC Address	3029.BE91.0031
Hello Time	2 (1-10)s
Max Age	20 (6-40)s
Forward Delay	15 (4-30)s
BPDU Terminal	Disable

The page can configure the local STP protocol, such as protocol type, spanning tree priorities etc. Click **Set** to save configuration.

11.3.2 MSTP

11.3.2.1 MST Global

Click **Redundancy -> Spanning Tree -> MSTP** at navigation bar in order, and then click the **MST Global** to enter the configuration page as following:

MST Global	MST Instance						
<table border="1"> <thead> <tr> <th colspan="2">MST Global</th> </tr> </thead> <tbody> <tr> <td>Name</td> <td>3029BE910031</td> </tr> <tr> <td>Revision Level</td> <td>0 <0-65535></td> </tr> </tbody> </table>		MST Global		Name	3029BE910031	Revision Level	0 <0-65535>
MST Global							
Name	3029BE910031						
Revision Level	0 <0-65535>						

You can configure the MST Global Revision Level in this page.

Click **Set** to save configuration.

11.3.2.2 MST Instance

Click **Redundancy -> Spanning Tree -> MSTP** at navigation bar in order, and then click the **MST Instance** to enter the configuration page as following:

MST Global		MST Instance							
Instance	VLAN Mapping	Priority	Bridge ID	Root ID	Root Port	Root Path Cost	Port Mapping	Operate	
0	1-4094	32768						Modify	
1		32768						Modify	
2		32768						Modify	
3		32768						Modify	
4		32768						Modify	
5		32768						Modify	
6		32768						Modify	
7		32768						Modify	
8		32768						Modify	
9		32768						Modify	
10		32768						Modify	
11		32768						Modify	
12		32768						Modify	
13		32768						Modify	
14		32768						Modify	
15		32768						Modify	

Reload

This page shows the VLAN Mapping, priority and etc. of every instance.

Click **Reload** at the bottom control bar, refresh the MST Instance information.

Click **Modify** on the right of the table, configure the instance.

MST Global		MST Instance	
Configuration Instance 3			
VLAN Mapping	<input type="text"/>	Priority	32768
Bridge ID	<input type="text"/>	Root ID	<input type="text"/>
Root Path Cost	<input type="text"/>	Root Port	<input type="text"/>
Port	Path Cost (1-200000000)	Priority	
g0/1	<input type="text"/>	128	▼
g0/2	<input type="text"/>	128	▼
g0/3	<input type="text"/>	128	▼

Set Reload Go back

On this page, the path cost and priority can be configured. And click **Set** at the bottom control bar to save the configuration.

11.3.3 Spanning Tree Ports

11.3.3.1 Port Configuration

Click **Redundancy -> Spanning Tree -> Ports** at navigation bar in order, and then click the **Port Configuration** to enter the configuration page as following:

Port Configuration				Port State						
Port	Protocol Status	Priority(0~240)	Path-Cost(0~200000000)	Edge Port	RSTP Ring	Guard	BPDU guard	BPDU filter		
g0/1	Enable	128	0	Disable	Disable	none	Disable	Disable		
g0/2	Enable	128	0	Disable	Disable	none	Disable	Disable		
g0/3	Enable	128	0	Disable	Disable	none	Disable	Disable		
g0/4	Enable	128	0	Disable	Disable	none	Disable	Disable		
g0/5	Enable	128	0	Disable	Disable	none	Disable	Disable		
g0/6	Enable	128	0	Disable	Disable	none	Disable	Disable		

Set **Reload**

This page shows the protocol status, priority, path cost, edge port, RSTP ring, guard, BPDU guard and BPDU filter enabling status, which can be configured. After configuration, click **Set** at the bottom control bar to save the configuration.

11.3.3.2 Port Status

Click **Redundancy -> Spanning Tree -> Ports** at navigation bar in order, and then click the **Port Status** tab to enter the status page as following:

Port Configuration				Port State		
Port	Role	State	Cost	Priority.Port ID	Type	
g0/2	Desg	FWD	20000	128.2	Edge	

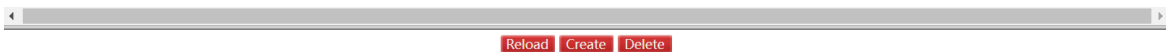
Reload

The page lists the port information and usage status of spanning tree, Click **Reload** can refresh the data.

11.4 EAPS (ether-ring)

Click **Redundancy -> EAPS(ether-ring)** at navigation bar in order, and then enter the EAPS ring (Ether-ring) list configuration page as following:

<input type="checkbox"/>	Ring ID	Node Type	Ring Description	Control VLAN	Status	Hello	Fail	Preforward	Primary Port/Forwarding/Link Status	Secondary Port/Forwarding/Link Status	Operate
<input type="checkbox"/>	0	Master-node		2	RingFail	1	3	3	None/Blocking/Linkdown	None/Blocking/Linkdown	Modify



This page shows the configuration of EAPS ring (ether-ring), including ring ID, node type, ring description, Control VLAN, status, Hello Time, Fail Time, Pre Forward Time and primary and secondary port on the ring.

Click **Modify** on the right, change the time, primary and secondary port configuration on the EAPS (ether-ring).

Click **Create** at the bottom control bar, create new EAPS (ether-ring).

Note:

1. The EAPS ring (ether-ring) number the system supported is 32.
2. After the EAPS ring (ether-ring) configured, the ring ID, node type and CONTROL VLAN cannot be changed. If they needed to be changed, please delete the EAPS (ether-ring) and create new.

Click **Create** at the bottom control bar on the EAPS (ether-ring) page, or click **Modify** on the right, enter the EAPS ring (ether-ring) configuration page:

ether-ring Configuration

Ring ID:

Node Type:

Ring Description:

Control VLAN:

Hello Time: (1-10)s

Fail Time: (3-30)s

Preforward Time: (3-30)s

Primary Port:

Secondary Port:



In the drop-down list on the right of primary and secondary port, port of the ring can be chosen, or “None” can be chosen.

Note:

If configure the existed EAPS ring (ether-ring), the ring ID, node type and CONTROL VLAN cannot be changed.

11.5 MEAPS

Click **Redundancy** -> **MEAPS** at navigation bar in order, and then enter the MEAPS list configuration page as following:

<input type="checkbox"/>	Domain ID	Ring ID	Ring Type	Node Type	Control Vlan	Hello Time	Failed Time	Pre Forward Time	Port	Type	Port	Type	Operate
<input type="checkbox"/>	2	2	Major Ring	Master Node	3	3	9	9	None	Primary-Port	None	Secondary-Port	Modify

[Reload](#) [Create](#) [Delete](#)

The list displays the currently configured MEAPS ring, including the Domain ID, Ring ID, Ring Type, Node Type, Control VLAN, Hello Time, Failed Time, Pre Forward Time and the Primary/Secondary Port on the ring.

Click **Modify** right of the entry to configure the time parameter and the Primary and Secondary port of the MEAPS ring network.

Click **Create** to create new MEAPS ring network.

Note:

1. Supporting max four MEAPS domains (0-3).
2. Supporting max eight Rings in one domain (0-7).
3. Once one MEAPS has configured, its Domain ID, Ring ID, Ring Type, Node Type and Control VLAN cannot be changed. If these parameters need to be configured, please delete this ring and re-create it.

Click **New** or **Modify** on the right of the entry in MEAPS network ring list, and enter MEAPS configuration page.

Domain ID	<input type="text"/>
Ring ID	<input type="text"/>
Ring Type	Major Ring ▼
Node Type	Master Node ▼
Control Vlan	<input type="text"/>
Hello Time	<input type="text"/>
Failed Time	<input type="text"/>
Pre-Forward Time	<input type="text"/>
Primary-Port	None ▼
Secondary-Port	None ▼

[Set](#) [Reload](#) [Go back](#)

Master node and the transit node can only be configured in the the primary ring.

Primary node, transit node and edge node can be configured in the secondary ring.

The primary node and the transit node can only be existed in one ring, and the edge node and the assistant edge node can be existed in many rings simultaneously.

In the text boxes of “Primary Port” and “Secondary Port”, select a port as the ring port respectively or select “None”.

Note:

Once one MEAPS has configured, its ID, ring ID, ring type, node type and control Vlan cannot be configured.

11.6 ERPS

Click **Redundancy** -> **ERPS** at navigation bar in order, and then enter the ERPS list configuration page as following:

<input type="checkbox"/>	Ring ID	control vlan	Ring-Node version	Ring-state	Signal Fail	WTR-time	guard time	send time	port1/Forwarding/Link Status	port2/Forwarding/Link Status	Operate
<input type="checkbox"/>	3	2	1	Protection	False	20	500	5	g0/1/Blocking/Linkdown	g0/4/Blocking/Linkdown	Modify

[Reload](#) [Create](#) [Delete](#)

This page shows the configured ERPS ring, including ring ID, control vlan, Ring-Node version, Ring-state, Signal Fail, WTR-time, guard time, send-time, primary and secondary port.

Click **Modify** on the right of the list, configure the time and primary and secondary port.

Click **Create** at the bottom control bar, create new ERPS ring.

Note:

1. This system only supports ERPS single ring configuration.
2. Max 8 ERPS ring node.
3. Once one ERPS has been configured, its ring ID and control Vlan cannot be configured. If these parameters need to be configured, please delete this ring and re-create it.

Click **Create** at the bottom control bar or click **Modify** on the right of the item, enter the ERPS configuration page as following:

ERPS configuration

Global Configuration

Ring ID

Ring-state None ▾

Interconnection Node

control vlan

Ring-Node version 1 ▾

WTR-time (10-720)s

guard time (10-2000)ms

send time (1-10)s

Interface Configuration

port1 None ▾ port1 role Ring-Port ▾

port2 None ▾ port2 role Ring-Port ▾

[Set](#) [Reload](#) [Go back](#)

The ring ID of ERPS can be from 1 to 7.

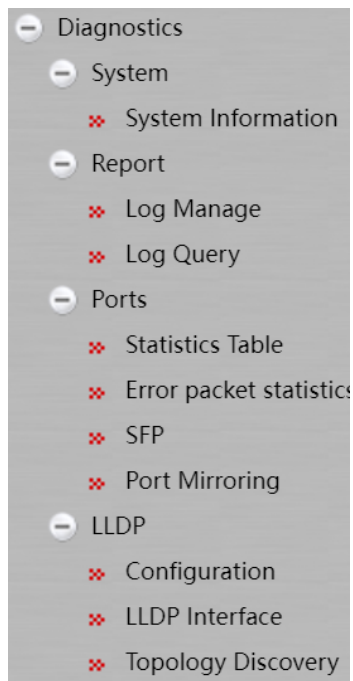
After the port 1 and port 2 configured, the corresponding port role should be configured.

In the text boxes of "Port 1" and "Port 2", select a port as the ring port respectively or select "None".

Note:

Once one MEAPS has been configured, its ring ID, ring type, node type and control Vlan cannot be configured

12 Diagnostics



12.1 System

12.1.1 System Information

Click **Diagnostics** -> **System** -> **System Information** at navigation bar in order, and then enter the configuration page as following:

System Information

Name	Switch
Device Type	SDS300-B6P2040P
Serial No.	90043300108
MAC Address	3029.BE91.0031
IP Address	192.168.2.1
CPU Usage	4%
Memory Usage	38%
Uptime	0 Day ,3:4:49
Current Time	2000-1-1 3:4:49
Temperature(°C)	33

State of Redundancy Protocols

Portocol	State	Information
STP	Running	RSTP

Port Configuration

Port	Enable	State	Speed	Duplex	Flow Control
g0/1	enabled	down	auto	auto	Off
g0/2	enabled	up	auto	auto	Off
g0/3	enabled	down	auto	auto	Off
g0/4	enabled	down	auto	auto	Off
g0/5	enabled	down	auto	auto	Off
g0/6	enabled	down	auto	auto	Off

Port Statistics

Port	Send Bytes	Send Packets	Receive Bytes	Receive Packets	Discard	Discard Rate
g0/1	0	0	0	0	0	0%
g0/2	5678702	10484	1018616	7024	0	0%
g0/3	0	0	0	0	0	0%
g0/4	0	0	0	0	0	0%
g0/5	0	0	0	0	0	0%
g0/6	0	0	0	0	0	0%

Used Management Ports

Portocol :	SNMP	HTTP	HTTPS
Port:	161	80	443

[Display More Diagnostic Information](#)

The page lists the system information, state of redundancy protocol, port configuration, port statistics, user management port. Click **Display More Diagnostic Information** can check more information such as CPU utilization, task information and etc.

Tasks:

CPU utilization for one second: 4; one minute: 4; five minutes: 4
P - Pending D - Delay R - Ready S - Suspend E - Estimated

NAME	ENTRY	TID	PRI	PC	Stk Ptr	SP lmt	ERR.NO	ST	CPU	invoked
tExc	80969ad8	815b8750	000	80990368	815bec00	815bcd18	000000	P	0.00E	0
tJob	8096ab9c	815e5280	000	80990368	815e5118	815e3340	000000	P	0.00E	3
tLog	8096b338	815e93d8	000	8098dde8	815e9278	815e8050	000000	P	0.00E	0
IDLE	803c441c	84b204d0	255	803c4424	84b20310	84b1e4d0	000000	R	96.99	1105335
RCVR	803c4f08	84b42660	060	8098dde8	84b42388	84b32660	000000	P	0.01	1
ATDT	803c5438	84b546d0	180	8098dde8	84b543d0	84b4c6d0	000000	P	0.00	93
DM	801aac14	87edb9f0	128	8098dde8	87edb9f0	87ed3cc0	000000	P	0.00	4
SLOG	803e3844	87ef0340	128	8098dde8	87eef28	87eec340	000000	P	0.00	57
STRL	803e48d0	87ef6600	128	8098dde8	87ef6310	87ef2600	000000	P	0.00	26
_USM	8091192c	84b88f60	128	8098dde8	84b88c60	84b78f60	000000	P	0.00	1
CPRI	809a8e4	84b99210	128	8098dde8	84b98f28	84b89210	000000	P	0.00	1
_NTM	803bada8	84ba14c0	055	809967c0	84ba1268	84b994c0	000000	D	0.16	1108760
waMo	8073147c	84bb0280	200	80990368	84bb0180	84bac280	3d0004	R	0.00E	22167

[Set](#) [Reload](#)

12.2 Report

12.2.1 Log Management

Click **Diagnostics -> Report -> Log Manage** at navigation bar in order, and then enter the configuration page as following:

Log Manage

System logs will be sent to the server when it is enabled

Enable the log server	<input type="checkbox"/>
Address of the log server	<input type="text" value="(8-rfc3164)"/>
Level of system logs	<input type="text" value="(8-rfc3164)"/>
Enable the log buffer	<input type="checkbox"/>
Size of the log buffer	<input type="text" value="4096"/> (Bytes)
Level of cache logs	<input type="text" value="(7-debugging)"/>
Enable logging command	<input type="checkbox"/>

Help

#Enable log server: Enables/Disables the output of the device's logs to the log server (If the logs of the device are disabled, no information will be displayed on the log page).

#Address of the system log server: Enter the address of the log server. The logs will be exported to the designated log server. You can browse the log information on the log server.

#Grade of the system log information: The output of the system log can be divided into different grades. You can export the logs with designated range. The bigger the value of the log's range is, the more detailed the log is.

#Enable log buffer: After the log buffer is enabled, you can set the information about the log buffer.

#Size of the system log cache: Sets the size of the log cache zone on the device.

#Grade of the log cache information: Sets the grades of the logs in the cache of the device. The bigger the value of the log's grade is, the more detailed the log is.

When **Enabling the log server** was selected, the device will transmit the log information to the designated server. In this case, you need enter the address of the server in the Web Configuration "**Address of the system log server**" textbox and select the log's grade in the "Grade of the system log information" dropdown box (grade 9 – rfc5424 is the lowest grade of log).

When **enabling the log buffer** was selected, the device will record the log information to the memory. By logging on to the device through the Console port or Telnet, you can run the command "**show log**" to browse the logs which are saved on the device. The log information saved in the memory will lost when restarting the device. Please enter the size of the buffer area in the "Size of the log buffer" textbox and select the grade of the cached log in the "Grade of the cache log information" dropdown box.

12.2.2 Log Query

Click **Diagnostics -> Report -> Log Query** at navigation bar in order, and then enter the configuration page as following:

Log Query

Filters

Log Level

Log Time --

Log Level	Log Time	Log in detail
informational(6)	JAN 1 3:2:46	%MEM-6-EXT_REGION_DESTORY 802334d4: Destory extend region for region 1 rank 4
informational(6)	JAN 1 3:2:16	%MEM-6-EXT_REGION_CREATE 80bf7aa4: Create extend region for region 1 rank 4, 7988 blocks 4154679 bytes
informational(6)	JAN 1 2:55:31	%MEM-6-EXT_REGION_DESTORY 802334d4: Destory extend region for region 1 rank 4
informational(6)	JAN 1 2:55:1	%MEM-6-EXT_REGION_CREATE 80223720: Create extend region for region 1 rank 4, 7988 blocks 4154679 bytes
emergencies(0)	JAN 1 2:45:20	***FAULT_ALARM:remote-CCM[FNG:0x81695C20(did:4)]RDI:0,PS:0/1,IS:0/1,rCCM:1,eCCM:0,xCCM:0
emergencies(0)	JAN 1 2:45:20	***FAULT_ALARM:remote-CCM[FNG:0x81695D30(did:1)]RDI:0,PS:0/1,IS:0/1,rCCM:1,eCCM:0,xCCM:0
informational(6)	JAN 1 2:41:15	%MEM-6-EXT_REGION_DESTORY 802334d4: Destory extend region for region 1 rank 4
informational(6)	JAN 1 2:37:45	%MEM-6-EXT_REGION_CREATE 80221378: Create extend region for region 1 rank 4, 7989 blocks 4155209 bytes
informational(6)	JAN 1 2:34:23	%MEM-6-EXT_REGION_DESTORY 802334d4: Destory extend region for region 1 rank 4
informational(6)	JAN 1 2:33:2	%MEM-6-EXT_REGION_CREATE 80221378: Create extend region for region 1 rank 4, 7990 blocks 4155739 bytes
notifications(5)	JAN 1 2:21:26	%LINEPROTO-5-UPDOWN: Line protocol on Interface VLAN1, changed state to up

Note:

If you need more information, you can Query it by setting the log level and log time. Do not set the log time means that the query log of all time. Only set the starting time of log queries are expressed by the time for starting time log of all, only set the end time means queries are expressed by the time as the end time of all log.

12.3 Ports

12.3.1 Statistics Table

Click **Diagnostics -> Ports -> Statistics Table** at navigation bar in order, and then enter the configuration page as following:

Port	Receive Packets	Receive Bytes	Received Unicast Packets	Received Multicast Packets	Received Broadcast Packets	Transmitted Packets	Transmitted Bytes	Transmitted Unicast Packets	Transmitted Multicast Packets	Transmitted Broadcast Packets	Discard	Discard Rate
g0/1	0	0	0	0	0	0	0	0	0	0	0	0%
g0/2	11298	1587481	9765	1394	139	18655	10668543	13084	5571	0	0	0%
g0/3	0	0	0	0	0	0	0	0	0	0	0	0%
g0/4	0	0	0	0	0	0	0	0	0	0	0	0%
g0/5	0	0	0	0	0	0	0	0	0	0	0	0%
g0/6	0	0	0	0	0	0	0	0	0	0	0	0%



The page lists the port information, including the Receive Packets, Receive Bytes, Received Unicast Packets, Received Multicast Packets, Received Broadcast Packets ...etc.

12.3.2 Error Packet Statistics

Click **Diagnostics -> Port -> Error Packet Statistics** at navigation bar in order, and then enter the error packet statistics page as following:

Port	Received Discard	Received Error Packets	FCS Packets	Jabber Packets	Received Oversize Packets	Received undersize Packets	Transmitted Discard	Transmitted Error Packets	Transmitted Oversize Packets
g0/1	0	0	0	0	0	0	0	0	0
g0/2	0	0	0	0	0	0	0	0	0
g0/3	0	0	0	0	0	0	0	0	0
g0/4	0	0	0	0	0	0	0	0	0
g0/5	0	0	0	0	0	0	0	0	0
g0/6	0	0	0	0	0	0	0	0	0



This page shows the communication data, including received discard, received error packets, FCS packets, Jabber packets, received oversized packets, received undersize packets, transmitted discard, transmitted error packets, transmitted oversized packets etc.

Click **Clear** at the bottom control bar, to clean all the error packet statistics information.

12.3.3 SFP

Click **Diagnostics -> Port -> SFP** at navigation bar in order, and then enter the configuration page as following:

Port	TX Power (dBm)	RX Power (dBm)	Temperature (°C)	Supply Voltage (V)	Bias (mA)
------	----------------	----------------	------------------	--------------------	-----------

Reload

Note: SFP port information can be read when the DDM has been enabled.

12.3.4 Port Mirroring

Click **Diagnostics -> Port -> Port Mirroring** at navigation bar in order, and then enter the configuration page as following:

Mirror Port
 ▾

Mirrored Port	Enabled	Mirror Mode
g0/1	<input type="checkbox"/>	RX ▾
g0/2	<input type="checkbox"/>	RX ▾
g0/3	<input type="checkbox"/>	RX ▾
g0/4	<input type="checkbox"/>	RX ▾
g0/5	<input type="checkbox"/>	RX ▾
g0/6	<input type="checkbox"/>	RX ▾

Set Reload

Click the dropdown box right of the **Mirror Port** and select a port to be the destination port of mirror.

Click the checkbox and select the mirroring source port:

RX The received packets will be mirrored to the destination port .

TX The transmitted packets will be mirrored to a destination port.

RX & TX The received and transmitted packets will be mirrored simultaneously.

12.4 LLDP Configuration

12.4.1 LLDP Basic Configuration

Click **Diagnostics -> LLDP -> Configuration** at navigation bar in order, and then enter the basic configuration page of LLDP protocol as following:

Basic Config of LLDP Protocol	
Protocol State	Close the LLDP ↓
HoldTime Settings	120 (0-65535)s
Reinit Settings	2 (2-5)s
Setting the packet transmission cycle	30 (5-65534)s
TLV Select	
Management address	<input checked="" type="checkbox"/>
Port description	<input checked="" type="checkbox"/>
System capabilities	<input checked="" type="checkbox"/>
System description	<input checked="" type="checkbox"/>
System name	<input checked="" type="checkbox"/>

Set Reload

You can enable or disable the LLDP protocol. You cannot configure the LLDP protocol of the port when LLDP is disabled.

HoldTime refers to the ttl value for transmitting the LLDP message. The default value is 120s.

Reinit refers to the transmission delay of LLDP. The default value is 2s.

12.4.2 LLDP Interface

Click **Diagnostics -> LLDP -> LLDP Interface** at navigation bar in order, and then enter the LLDP port configuration page as following:

Port	Receive LLDP Packet	Send LLDP Packet	MED-TLV Network policy	MED-TLV Inventory Management	MED-TLV Location ID
g0/1	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
g0/2	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
g0/3	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
g0/4	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
g0/5	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
g0/6	Disable ▾	Disable ▾	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Set Reload

LLDP port configuration can enable or disable the port transmitting LLDP packets, the default value was disable both of receive and send LLDP packet. The default of MED-TLV is enabled.

12.4.3 Topology Discovery

Click **Diagnostics -> LLDP -> Topology Discovery** at navigation bar in order, and then enter the LLDP topology discovery and configuration page as following:

LLDP							
LLDP-MED							
PORT	Neighbor Identifier	Neighbor IP Address	Neighbor Port Description	Neighbor System Name	Port ID	Autonegotiation Supported	Autonegotiation Enabled

LLDP						
LLDP-MED						
PORT	Hardware Revision	Software Revision	Serial Number	Manufacturer Name	Model Name	Asset ID

The page lists the devices that have been found by this device.

13 Advanced



12.1 DHCP Server

13.1.1 DHCP Server Global Configuration

Click **Advanced** -> **DHCP Server** -> **Global** at navigation bar in order, and then enter the DHCP server global configuration page as following:

Operation	
<input type="radio"/> On <input checked="" type="radio"/> Off	
ICMP Paramter	
Number of ICMP packets	<input type="text" value="2"/> <0-10>
ICMP timeout	<input type="text" value="5"/> <0-20>
DHCP database config	
Server IP address	<input type="text"/>
Database file name	<input type="text"/>
Time stamp appends to filename	<input type="checkbox"/>

You can enable or disable the DHCP server feature in this page. The default value is 2 for Number of ICMP packets, ICMP timeout default value is 5 seconds. BTW you also can configure the DHCP database parameters such as server IP address, database file name, time stamp appends to filename.

13.1.2 DHCP Server Pool Configuration

Click **Advanced** -> **DHCP Server** -> **Pool** at navigation bar in order, and then enter the DHCP server pool configuration page as following:

<input type="checkbox"/>	Name	Network number	Network mask	Address range	Address lease time	Operate
<input type="checkbox"/>	1	192.168.3.0	255.255.255.0		Infinite	Modify

[Reload](#) [Create](#) [Delete](#)

The page lists the DHCP server pool information that have been configured.

Click **Modify** on the right of the entry and configure the parameter of DHCP server pool.

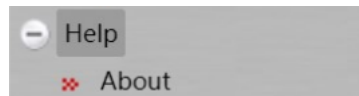
Click **Create** to create a new DHCP server pool, page as following:

New Address Pool

Name	<input type="text"/>
Network number	<input type="text"/>
Network mask	<input type="text"/>
Address range	<input type="text" value="Add"/> ▾
	<input type="text"/>
Address lease time	<input type="text" value="Default"/> ▾

[Set](#) [Reload](#) [Go back](#)

14 Help



14.1 About

Click **Help** -> **About** at navigation bar in order, enter the About page as following:

Version 2.2.0D Build 114471
(Build 114471)

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The information will shown in this page which are included IOS version messages, company website, contact telephone and etc.

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