

## PURELINK VIP-NET-4804PL3-1G



## PURELINK VIP-NET-4804PL3-1G

*USER MANUAL AND SETUP GUIDE*



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# VIP-NET-4804PL3-1G Web page operation manual

This manual mainly describes the L3 web page operation for the VIP-NET-4804PL3-1G switch. Users can use the web pages to configure and manage the switch. This manual gives a brief introduction to the operation of each L3 web page. Please also refer to <<VIP-NET-4804PL3-1G>> Quick Installation Guide for the switch function introductions and Installations. The manual includes the following contents:

1. Overview of L3 WEB pages
2. Web pages Introductions

## Overview of L3 WEB pages

### 1、WEB access characteristics

This switch provides Web access for users. Users can access the switch through the web browser to manage and configure the switch. The main characteristics of web access are:

- Easy access: users can easily access the switch from anywhere on the network.
- Users can visit the web pages of VIP-NET-4804PL3-1G L3 switch with known browsers such as Firefox, Google Chrome, Oprea and Microsoft Internet Explorer (version 8. 0 and above). The web pages are shown in graphical and tabular form.
- This switch provides rich web pages, through which users can configure and manage most of the functions for the switch.
- The classification and integration of web page functions makes it easy for users to find relevant pages for configuration and management.

### 2、System requirements for WEB browsing

The PC host system requirements for web browsing are shown in Table 1.

Table 1:

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Hardware and software	System requirements
CPU	Pentium 586 above
Memory	128MB above
Resolution ratio	1024x768 above
Color	256 color above
Browser	Internet Explorer 8.0 Above or Firefox or Google Chrome or Opera...
Operating system	Microsoft® Windows xp®/Windows Vista®/Windows 7®/Windows 8®, Linux, Unix operating system

### Notes:

Microsoft®, Windows xp®, Windows Vista®, Windows 7®, Windows 8® are registered trademarks of Microsoft Corporation. All other product names, trademarks, registered trademarks and service marks are owned by their respective owners.

## 3、WEB login for browsing session

Before starting a web browsing session, the user needs to make sure:

- The switch has been IP configured. By default, the interface IP address of vlan1 of the switch is 192.168.0.1, and the subnet mask is 255.255.255.0.
- The PC host with an installed web browser is connected to the network 192.168.0.xxx, and the host can ping the switch.

After completing the above two tasks, the user can enter the address of the switch in the address bar of the browser and press enter to login the web login page of the switch, as shown in Figure 1. Only the correct password can access the web. The default user name is “admin”, and the password is empty by default.

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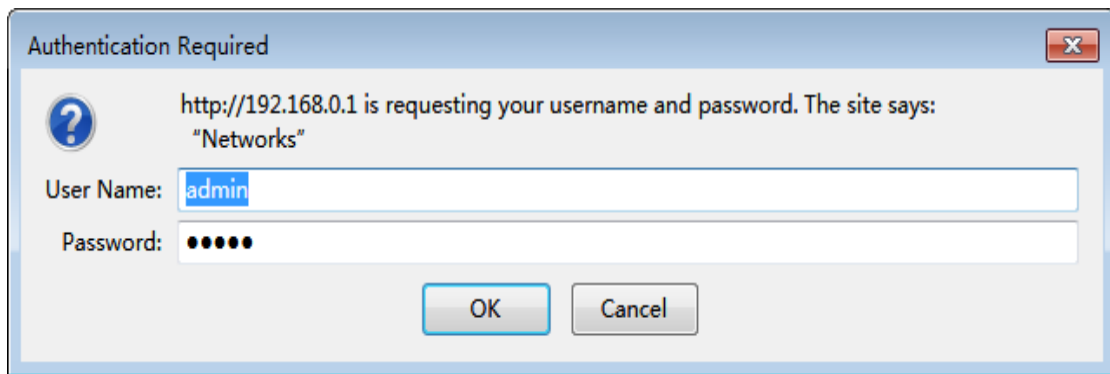


Figure 1, login page of web browsing session

### 4、 Basic composition of the WEB page

As shown in Figure 2, the web page is mainly composed of four parts: title page, category navigation page, menu page, and main page.

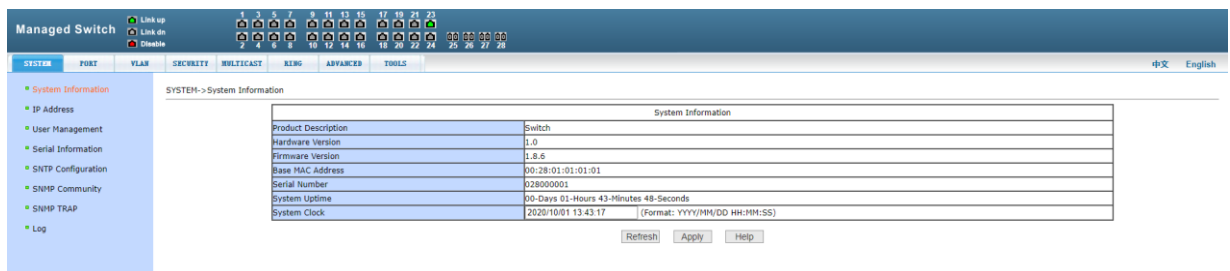


Figure 2, switch web page basic composition page

#### Title Page

Used to display logo and real-time port status, as shown in the figure below

The green light indicates that the port is connected;

The gray light indicates that the port is disconnected;

The red light indicates that the port is disabled

#### Category navigation page

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Web function classification entry, users can click a button to view the corresponding classification menu; the right side of the page is the switch model version and login user name.

### Menu page

Displays the menu page selected from the category navigation page. There may be one- or two-level menus. Click the menu item to open the corresponding page.

### Main page

Displays the page fields selected from the menu page.

## 5、Introduction to page buttons

There are some common buttons under the page, and the functions of these buttons are the same. Table 2 describes the functions of these common buttons.

Table 2:

Button	Function
Refresh	Update all fields on the page.
Apply	Apply the updated value into memory. The web server makes the error checking, and the field value will be validated after clicking the button.
Delete	Delete current record.
Help	Open the help page to view the configuration instructions of each page.

## 6、Error message

If the web server of the switch has errors in processing user requests, the corresponding error information will be displayed in a dialog box. For example, Figure 3 shows an error message dialog box.



Figure 3, error message page

## 7、Entry field

Some pages have an entry field at the beginning, as shown in Figure 4. Through the page you can access different items. When you select a value of an entry field, the corresponding information of that line is displayed on the page. At this moment, the content of the line is edited, which is also referred to as the active line.

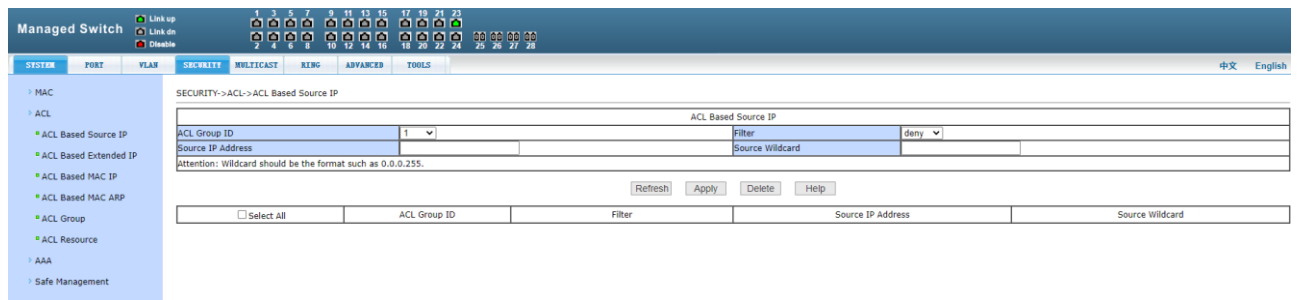


Figure 4, entry field page

## WEB Pages Introductions

The web pages of the switch are organized into groups, and each group may consist of one or more web pages. Each page will be described one by one as the following.



## 1、SYSTEM CONFIGURATION

### (1) System information page

Figure 5 is the system information configuration page, through which users can configure and view the system information of the switch.

**Product model:** product model description of the switch.

**Firmware version information:** the firmware version currently used by the switch.

**Bootrom version information:** the current boot rom version of the switch.

**Base MAC address:** the base MAC address of the switch.

**Serial number:** the serial number of the switch.

**Serial port baud rate:** the serial port baud rate used by the switch.

**System Uptime:** the time duration since the switch system starts until now.

**System clock (modifiable):** the current clock of the system. The parameters of year, month, day, hour, minute and second can be entered to update.

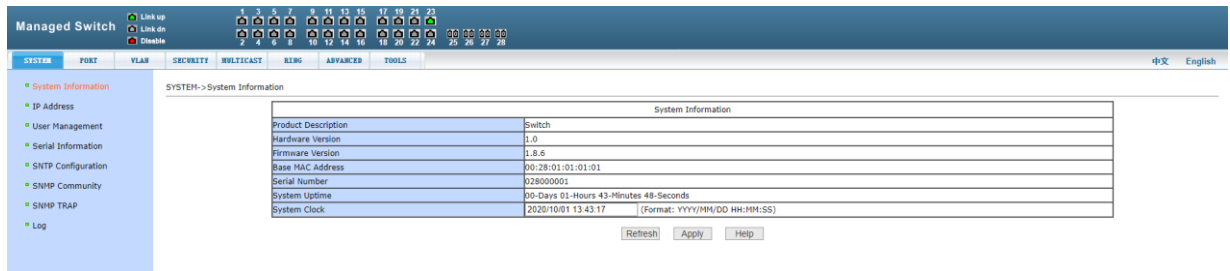


Figure 5, basic information page

### (2) IP address configuration page

Figure 6 is the IP address configuration page. Users can configure the IP address, subnet mask and gateway address of the switch through this page. The management VLAN is 1 by default and cannot be modified.

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The screenshot shows the 'Managed Switch' web interface. The top navigation bar includes 'SYSTEM', 'PORT', 'VLAN', 'SECURITY', 'MULTICAST', 'RING', 'ADVANCED', and 'TOOLS'. The left sidebar lists configuration options: System Information, IP Address, User Management, Serial Information, SNMP Configuration, SNMP Community, SNMP TRAP, and Log. The main content area is titled 'SYSTEM->IP Address' and contains a form for IP configuration. The form fields are: Admin VLAN (1), IP Address (192.168.0.1), Subnet Mask (255.255.255.0), Gateway (0.0.0.0), and MAC Address (00:28:01:01:01:02). Below the form is a warning message: 'Attention: Please configure carefully. If WEB connection interrupted after the configuration, try establish a new connection with the new IP Address.' At the bottom of the form are 'Refresh', 'Apply', and 'Help' buttons.

IP Address	
Admin VLAN	1
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
Gateway	0.0.0.0
MAC Address	00:28:01:01:01:02

Attention: Please configure carefully. If WEB connection interrupted after the configuration, try establish a new connection with the new IP Address.

Refresh Apply Help

Figure 6, IP address configuration page

### (3) User management page

Figure 7 is the user management page, through which user information can be configured. The default user of the switch is admin, which cannot be deleted, but the password can be modified.

The screenshot shows the 'Managed Switch' web interface with the 'SYSTEM->User Management' page selected. The left sidebar is the same as in Figure 6. The main content area has a form for adding a new user. The form fields are: User Name, User Level (set to 'normal'), Password, and Confirm Password. Below the form is a warning message: 'Attention: User name and password are case sensitive.' At the bottom of the form are 'Refresh', 'Apply', and 'Help' buttons. Below the form is a table showing the current user configuration.

User Management			
User Name			
User Level	normal		
Password			
Confirm Password			

Attention: User name and password are case sensitive.

Refresh Apply Help

Item	User Name	User Level	Operation
1	admin	privilege	Delete

Figure 7, user management page

### (4) SNMP common configuration page

Figure 8 is the SNMP common configuration page, which allows the user to configure the name and read-write permissions of the common body of the switch. A total of 8 entries can be configured.

By default, the switch has a public name common, which is read-only. When the switch needs to be managed by SNMP, it is necessary to configure a common body with readable and writable permissions.

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The configured community cannot be modified or added with a duplicate name. However, you can click the corresponding delete link to delete the community, and then reconfigure it.

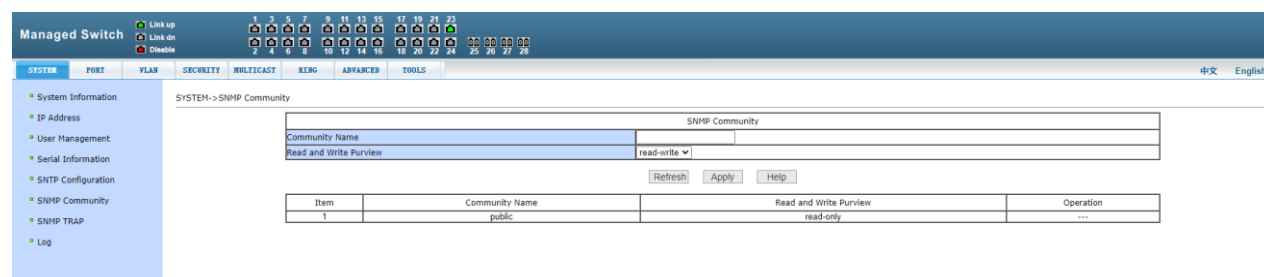


Figure 8, SNMP common configuration page

### (5) SNMP TRAP CONFIGURATION PAGE

Figure 9 is the SNMP trap configuration page, which allows users to configure the IP address of the workstation receiving trap messages and some parameters of the trap protocol package.

Enter the trap name, trap server IP address, and select the version number. After submission, if the configuration is successful, the SNMP trap function will work. In case of link up or link down, the switch will automatically send trap packets to the target address.

The configured trap target cannot be modified or added with a duplicate name. However, you can click the corresponding delete link to delete the trap target and reconfigure it.

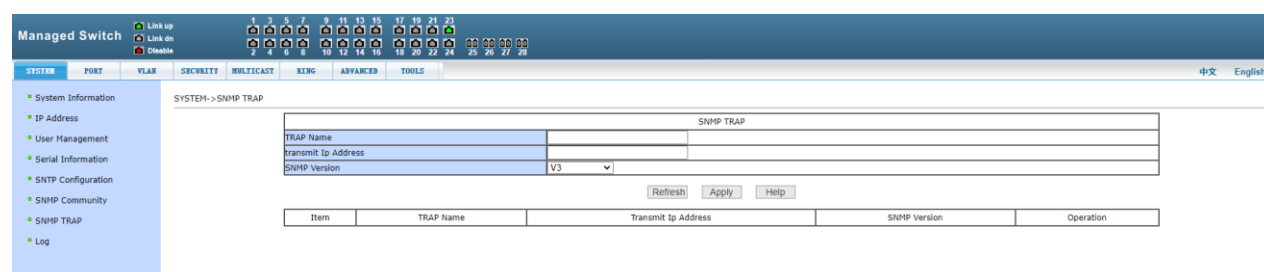


Figure 9, SNMP trap configuration page

### (7) Log information

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Figure 10 is the log information page through which users can view logs. Select the priority from the drop-down list to view the logs of this level. Click refresh to view the latest logs.

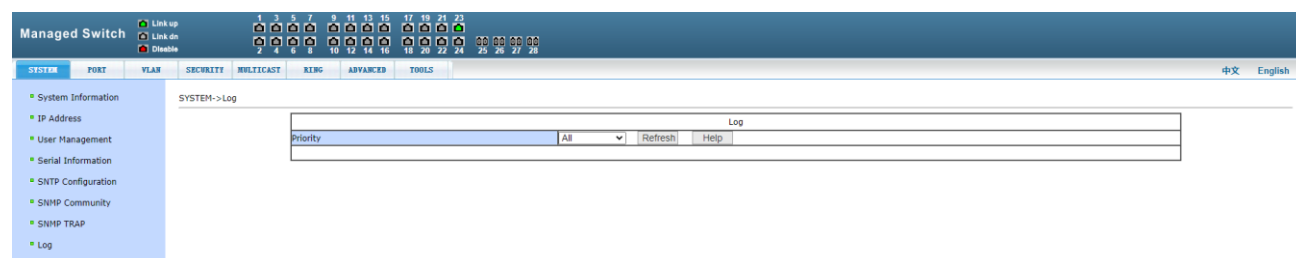


Figure 10, log information page

## 2、PORT CONFIGURATION

### (1) Port basic configuration page

Figure 11 shows the port basic configuration page. Users can enable or disable ports, set port rate and flow control, or view basic information of all ports through this page.

To modify the port configuration, the user needs to check the left side of the corresponding port or use the "select all" function. The selected port will be displayed at the top of the page, and several consecutive ports are indicated by connection numbers. After successful setting, the selected port will be configured with the same parameters. The list on the page shows the configuration information for all ports.

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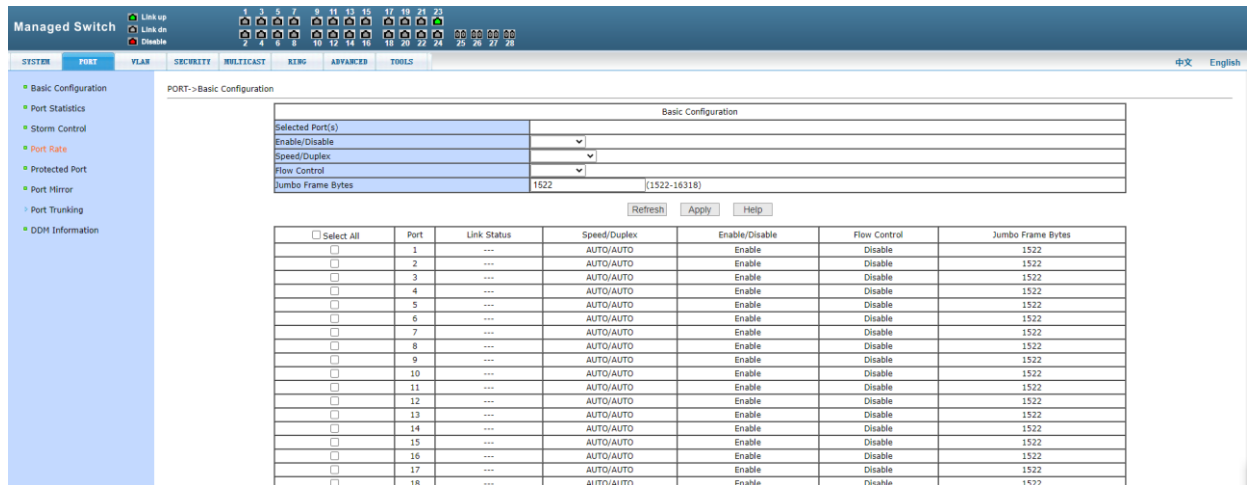


Figure 11, port configuration and port display page

### (2) Port Statistics page

Figure 12 shows the Port Statistics page. The page lists the number of sent packets, sent bytes, received packets, received bytes, error packets, and dropped packets for all ports.

Managed Switch

PORT->Port Statistics

Port	Send Packets Num	Send Octets Num	Received Packets Num	Received Octets Num	Error Packets Num	Discard Packets Num
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0
4	0	0	0	0	0	0
5	0	0	0	0	0	0
6	0	0	0	0	0	0
7	0	0	0	0	0	0
8	0	0	0	0	0	0
9	0	0	0	0	0	0
10	0	0	0	0	0	0
11	0	0	0	0	0	0
12	0	0	0	0	0	0
13	0	0	0	0	0	0
14	0	0	0	0	0	0
15	0	0	0	0	0	0
16	0	0	0	0	0	0
17	0	0	0	0	0	0
18	0	0	0	0	0	0
19	0	0	0	0	0	0
20	0	0	0	0	0	0
21	0	0	0	0	0	0
22	0	0	0	0	0	0
23	7839	5665561	70640	12176424	0	0
24	0	0	0	0	0	0
25	0	0	0	0	0	0
26	0	0	0	0	0	0
27	0	0	0	0	0	0
28	0	0	0	0	0	0

Figure 12, Port Statistics page

### (3) Port storm suppression page

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Figure 13 shows the port storm suppression page. This page is used to configure the suppression function of broadcast packets, multicast packets and DLF packets on ports.

Check the left side of the corresponding port, or select the port with the "select all" function to turn on and off the broadcast suppression, multicast suppression and DLF suppression of the port. The inhibition rate type item and inhibition rate item are used to select the inhibition rate type and inhibition rate value to be configured. The inhibition rate range is 1-1024000, and the unit is kbits. The inhibition rates of broadcast suppression, multicast suppression and DLF suppression can be configured independently. The list on the page shows the configuration information for all ports.

Port	Broadcast Suppression	Multicast Suppression	DLF Suppression	RateLimit(kbits)
1	Disable	Disable	Disable	64
2	Disable	Disable	Disable	64
3	Disable	Disable	Disable	64
4	Disable	Disable	Disable	64
5	Disable	Disable	Disable	64
6	Disable	Disable	Disable	64
7	Disable	Disable	Disable	64
8	Disable	Disable	Disable	64
9	Disable	Disable	Disable	64
10	Disable	Disable	Disable	64
11	Disable	Disable	Disable	64
12	Disable	Disable	Disable	64
13	Disable	Disable	Disable	64
14	Disable	Disable	Disable	64

Figure 13, broadcast storm suppression page

### (4) Port speed limit page

Figure 14 shows the port speed limit page. This page is used to configure the port access speed limit.

Check the left side of the corresponding port, or use the "select all" function to select the port. The speed limit of the in / out port can be opened separately by checking the box. The speed limit range is 1-1024000, and the unit is kbits. If the check is cancelled, the speed limit will not be limited. The list on the page shows the configuration information for all ports.

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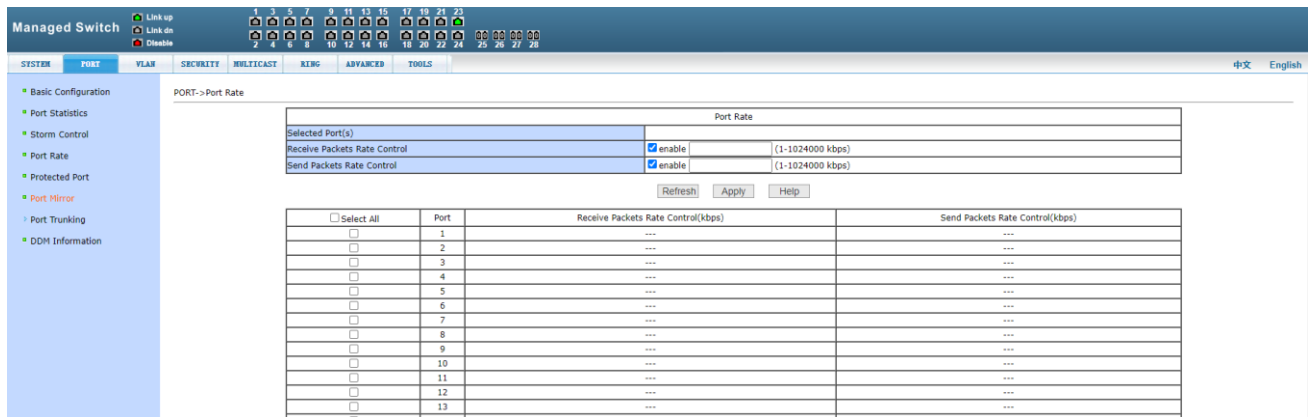


Figure 14, port speed limit page

### (5) Link aggregation configuration page

Figure 15 shows the link aggregation configuration page. The page lists all ports vertically and all aggregation groups horizontally. To add a port to an aggregation group, just click the radio box at the intersection of the row and column, and the aggregation method can be selected at the bottom of each aggregation group. To cancel the aggregation configuration of the specified port, click the leftmost radio box corresponding to the port.

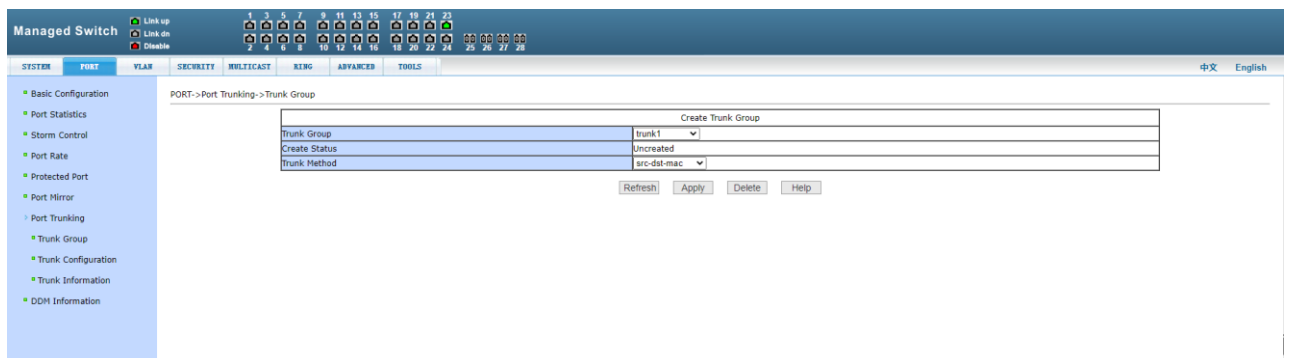


Figure 15, link aggregation configuration page

### (6) Port image configuration page

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Figure 16 shows the port mirroring configuration page, which allows users to configure port mirroring. Port mirroring is to listen to the output packets of the mirrored output port and the input packets of the mirrored input port through the mirror port. Only one mirror port can be selected, while multiple mirrored output ports and mirrored input ports can be selected. When configuring, select a mirror port first. Selecting "no mirroring" means canceling the mirror configuration. Then, select the port and direction to be mirrored from other ports. When the input port in the listening direction is selected, it means to listen to the received packets, and the out port means to listen to the sent packets. If both are checked, it means to listen to all the packets sent and received.

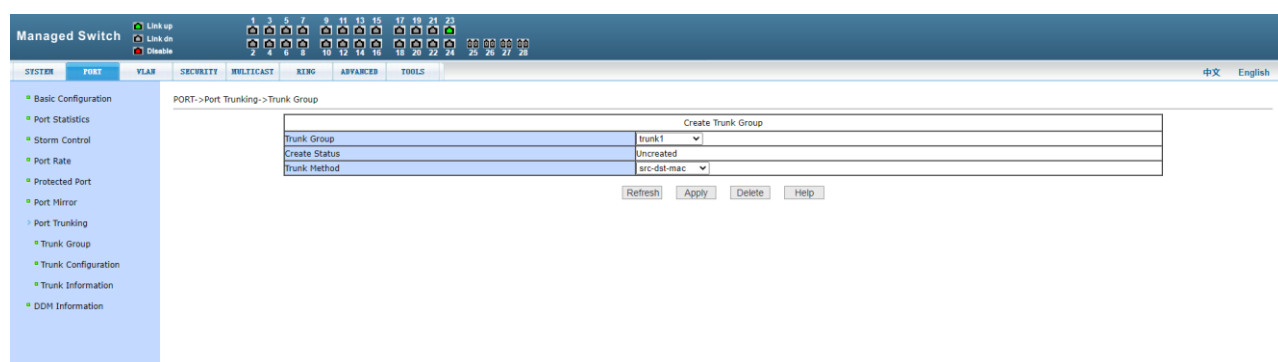


Figure 16, port image configuration page

## 3、VLAN CONFIGURATION

### (1) VLAN CONFIGURATION PAGE

Figure 17 shows the VLAN configuration page. This page allows users to create VLANs and display all VLAN information.

If you want to create a new VLAN, enter vid in the active line, ranging from 2 to 4094. The switch creates vlan1 by default, and vlan1 cannot be deleted.

If you want to delete a VLAN, click the corresponding delete link in the VLAN list. Click "delete all" button to delete all VLANs except vlan1.

The VLAN list shows all VLANs that have been created, and indicates the port members of each VLAN. A port cannot be a VLAN member, but can be a tagged or



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untagged member of a VLAN. The characters shown in front of the port on the page is as follows:

- T tagged                      The port is a tagged member of this VLAN
- U untagged                  The port is an untagged member of this VLAN

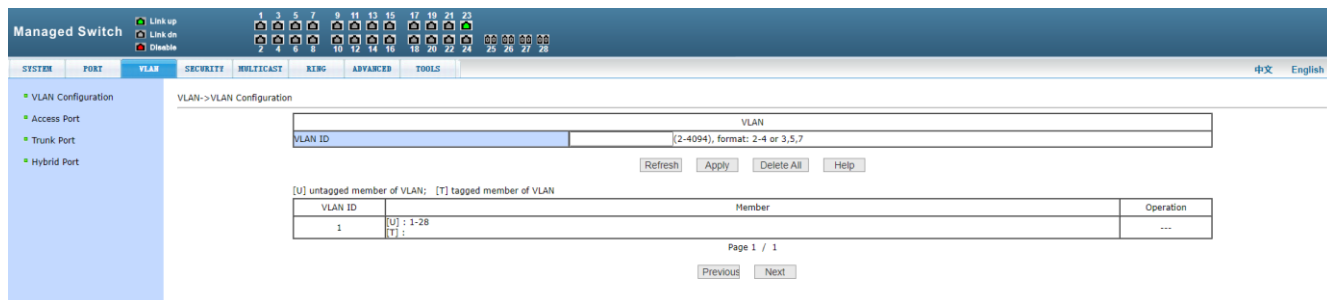


Figure 17, VLAN configuration page

### (2) Access port configuration page

Figure 18 shows the access port configuration page, showing and configuring the port access mode and VLAN. Click on the port / VLAN page to see the port list, which can be divided into two parts. If the port is in access mode, its VLAN can be displayed when it is selected. If other VLANs are selected and applied, the VLAN of the port is changed. If the port is not in access mode, the port will be changed to access mode and VLAN will be set. Note that only one VLAN can be selected in access mode.

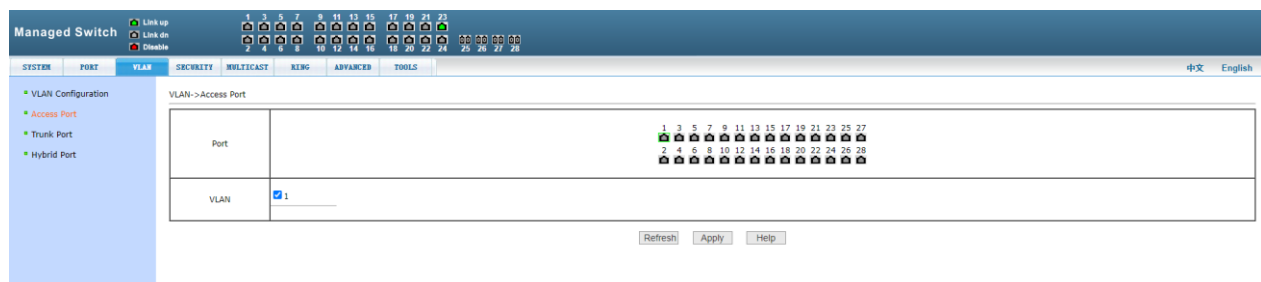


Figure 18, access port configuration page

### (3) Trunk port configuration page

Figure 19 shows the trunk port configuration page, showing and configuring the port trunk mode and the VLAN it belongs to. This page is divided into two parts: port list and VLAN list. Please refer to Section 2 (access port configuration page) for port operation. If the port is in trunk mode, its VLAN can be displayed when it is selected. If other VLANs are selected and applied, the VLAN of the port is changed. If the port is not in trunk mode, the port will be changed to trunk mode and VLAN will be set after configuration. In trunk mode, multiple VLANs can be selected. If you need to select a continuous group of VLANs, first select the first one, hold down the shift key, and then select the last one.

Figure 19, trunk port configuration page

### (4) Hybrid port configuration page

Figure 20 shows the configuration page of hybrid port, showing and configuring the port hybrid mode and VLAN. This page is divided into two parts: port list and VLAN list. Please refer to Section 2 (access port configuration page) for port operation. If the port is in hybrid mode, its VLAN can be displayed when it is selected. If other VLANs are selected and applied, the VLAN of the port is changed. If the port is not in hybrid mode, the port will be changed to hybrid mode and VLAN will be set after configuration. If the number of VLANs is selected by default, only one VLAN or tagged VLAN can be selected.

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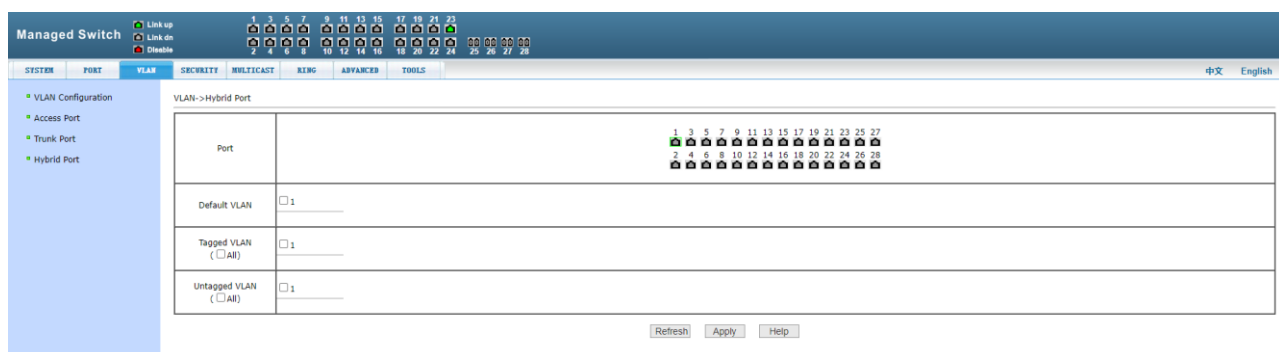


Figure 20, configuration page of hybrid port

## 4、SAFTY CONFIGURATION

### (1) MAC CONFIGURATION

#### ① Manual binding page of MAC address

Figure 21 shows the MAC configuration page. This page is used to realize the binding of port and MAC address.

The MAC item on the page is used to input the bound MAC address, and the VLAN ID item is used to enter the VLAN to which the MAC address belongs.

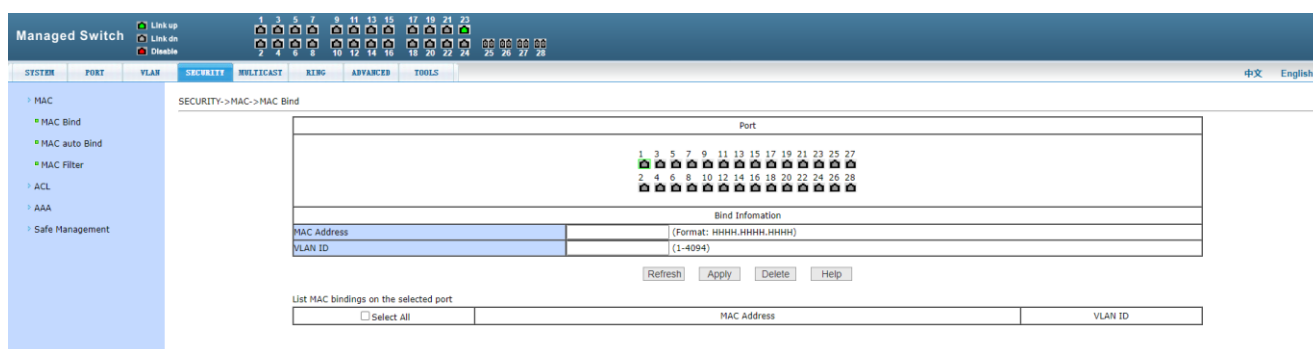


Figure 21, manual binding page of MAC address

#### ② MAC address auto binding page

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Figure 22 shows the MAC address auto binding page. This page is used to realize port auto binding MAC address.

Display the existing dynamic MAC address and VLAN of the port in the layer 2 hardware forwarding table. You can select an entry and convert it to a static binding.

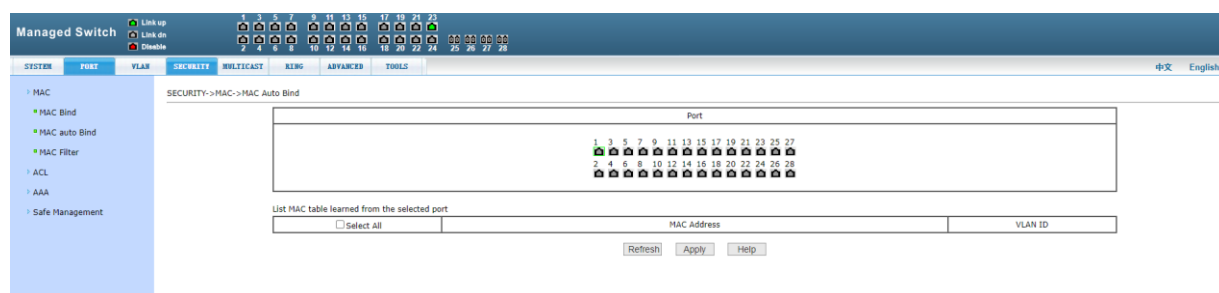


Figure 22, MAC address auto binding page

### ③ MAC address filtering configuration page

Figure 23 shows the MAC address filtering configuration page. This page is used to configure the port to filter MAC address.

The MAC item on the page is used to input the filtered MAC address, and the VLAN number item is used to enter the VLAN to which the MAC address belongs.

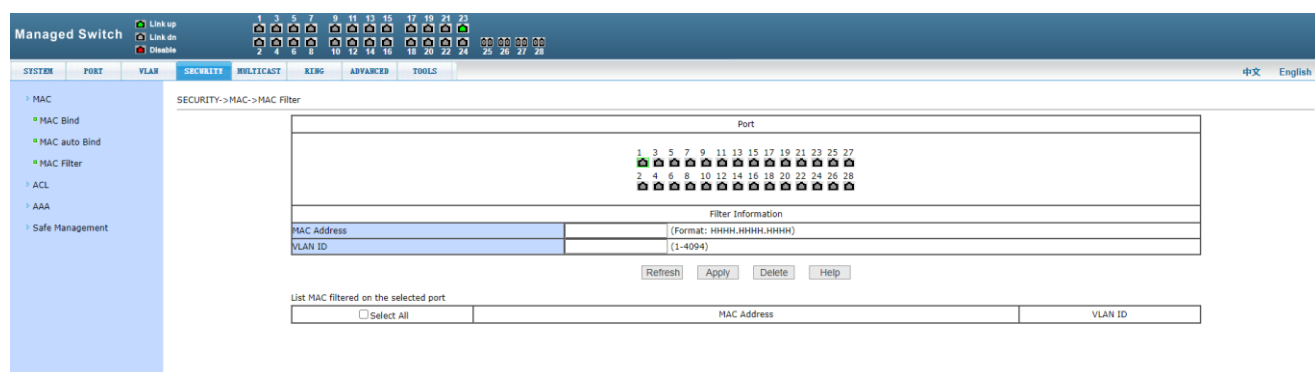


Figure 23, MAC address filtering configuration page

## (2) ACL CONFIGURATION

### ① Standard IP group ACL page

Figure 24 is the ACL page of standard IP group, through which users can establish the rule base of ACL standard IP. Users can select an ACL group number (ranging from 1-99 or 1300-1999) to create one or more rules in the group. The only fields that can be matched in a rule are the source IP address (masked).

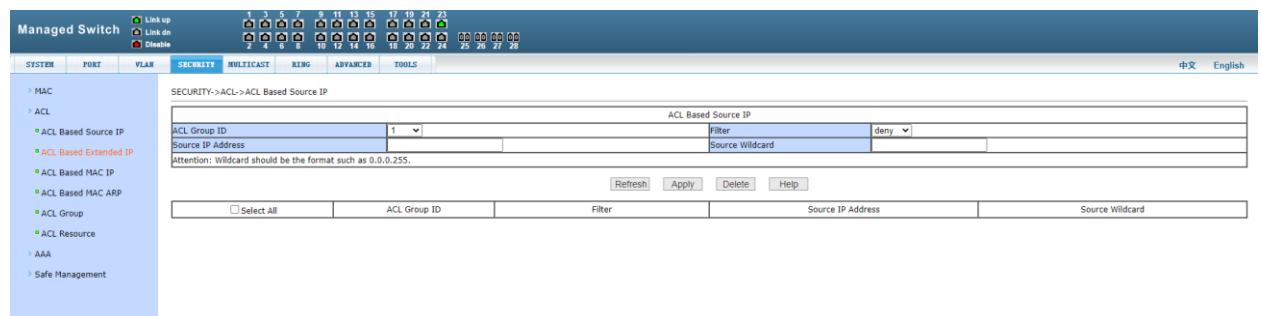


Figure 24, ACL page of standard IP group

When users configure rules, the source IP address should be masked, and the rules can match the set of IP addresses. The mask of the address is represented by the inverse code. If the rule is to match the IP address range from 192.168.0.0 to 192.168.0.255, the IP address can be 192.168.0.1, and its mask is 0. 0. 0. 255.

When users configure rules, each rule must have a filtering mode: allow or reject.

When a user creates a rule in a rule group, the system will automatically give the rule a rule number. When a rule in a rule group is deleted, other rules remain unchanged, and the system will automatically sort the rules in a rule group. If you want to delete the entire rule group, you can first select all and then click delete.

### ② Expand IP group ACL page

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Figure 25 shows the ACL page of the extended IP group, through which users can establish the rule base of ACL extended IP. Users can select an ACL group number (ranging from 100-199 or 2000-2699) to create one or more rules in the group. The fields that can be matched in a rule are active IP address (masked), destination IP address (masked), protocol type (such as ICMP, TCP, UDP, etc. ), source port and destination port (only valid for TCP and UDP protocols), and TCP control flag.

Managed Switch

Link up Link dn Disable

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

SYSTEM PORT VLAN SECURITY MULTICAST RING ADVANCED TOOLS 中文 English

MAC

ACL

ACL Based Source IP

ACL Based Extended IP

ACL Based MAC IP

ACL Based MAC ARP

ACL Group

ACL Resource

AAA

Safe Management

SECURITY->ACL->ACL Based Extended IP

ACL Based Extended IP

ACL Group ID 100 Filter deny

Source IP Source Wildcard

Destination IP Destination Wildcard

Protocol Type Source Port

Destination Port TCP Flag fin syn rst psh ack urg

Attention: Wildcard should be the format such as 0.0.0.255.

Refresh Apply Delete Help

All	Group ID	Filter	Source IP	Source Wildcard	Destination IP	Destination Wildcard	Protocol Type	Source Port	Destination Port	TCP Flag
-----	----------	--------	-----------	-----------------	----------------	----------------------	---------------	-------------	------------------	----------

Figure 25, expand IP group ACL page

When users configure rules, both the source IP address and the destination IP address need to be masked, and the rules can match the set of IP addresses. The mask of the address is represented by the inverse code. If the rule is to match the IP address range from 192.168.0.0 to 192.168.0.255, the IP address can be 192.168.0.1, and its mask is 0.0.0.255.

When users configure rules, each rule must have a filtering mode: allow or reject. .

When a user creates a rule in a rule group, the system will automatically give the rule a rule number. When a rule in a rule group is deleted, other rules remain unchanged, and the system will automatically sort the rules in a rule group. If you want to delete the entire rule group, you can first select all and then press the delete key.

### ③ Mac IP group ACL page

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Figure 26 is the ACL page of MAC IP group, through which users can establish ACL MAC IP rule base. Users can select an ACL group number (ranging from 700-799) to create one or more rules in the group. Fields that can be matched in a rule: active MAC address (with address matching bit), source IP address (with address matching bit), destination IP address (with address matching bit).

Managed Switch

Link up  
Link on  
Disable

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

SECURITY->ACL->ACL Based MAC IP

ACL Based MAC IP

ACL Group ID	700	Filter	deny
Source MAC		Source MAC Wildcard	
Source IP		Source IP Wildcard	
Destination IP		Destination IP Wildcard	

Attention: IP Wildcard should be the format such as 0.0.0.255. MAC Wildcard format should be HHHH.HHHH.HHHH

Refresh Apply Delete Help

<input type="checkbox"/> All	Group ID	Filter	Source MAC	Source MAC Wildcard	Source IP	Source IP Wildcard	Destination IP	Destination IP Wildcard
------------------------------	----------	--------	------------	---------------------	-----------	--------------------	----------------	-------------------------

Figure 26, MAC IP group ACL page

When the user configures the rule, the source MAC address, the source IP address and the destination IP address all need to carry on the address matching bit, the rule can match the set of MAC address and IP address. For example, if the rule matches the IP address range 192.168.0.0 to 192.168.0.255, the IP address can be 192.168.0.1 and its mask is 0.0.0.255.

When users configure rules, each rule must have a filtering mode: allow or reject.

When a user creates a rule in a rule group, the system will automatically give the rule a rule number. When a rule in a rule group is deleted, other rules remain unchanged, and the system will automatically sort the rules in a rule group. If you want to delete the entire rule group, you can first select all and then press the delete key.

### ④ Mac ARP group ACL page

Figure 27 is the ACL page of MAC ARP group, through which users can establish ACL MAC ARP rule base. Users can select an ACL group number (ranging from 1100 to 1199) to create one or more rules in the group. The fields that can be matched

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in a rule are ARP operation type, sending MAC address (with address matching bit), and sending IP address (with address matching bit) .

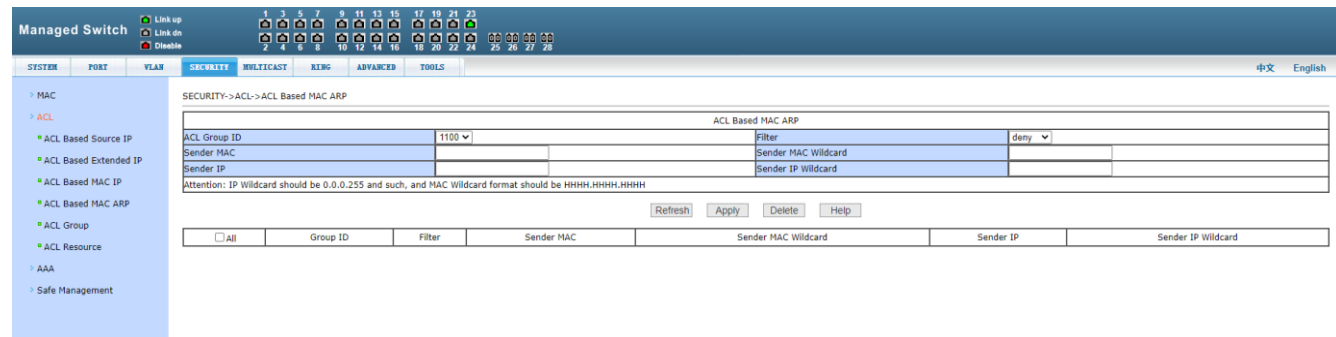


Figure 27, MAC ARP group ACL configuration page

When the user configures the rules, both the sending MAC address and the sending IP address should have address matching bits. The rules can match the set of MAC address and IP address. For example, if the rule matches the IP address range from 192.168.0.0 to 192.168.0.255, the IP address can be 192.168.0.1 and its mask is 0.0.0.255.

When users configure rules, each rule must have a filtering mode: allow or reject.

When a user creates a rule in a rule group, the system will automatically give the rule a rule number. When a rule in a rule group is deleted, other rules remain unchanged, and the system will automatically sort the rules in a rule group. If you want to delete the entire rule group, you can first select all and then press the delete key.

### ⑤ Port application ACL page

Figure 28 is the port application ACL page. Users can select an ACL group for a port through this page, write the rules in the ACL group into the port hardware logic, and make the port perform ACL filtering on the received packets according to these rules.

When selecting ACL group for port, you can select IP standard, IP extension, MAC IP, and MAC ARP ACL group. The selected ACL group must exist. Select from



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the ACL rule group list and press add key. To delete an ACL group, select an ACL group from the list of referenced rule groups and press the delete key.

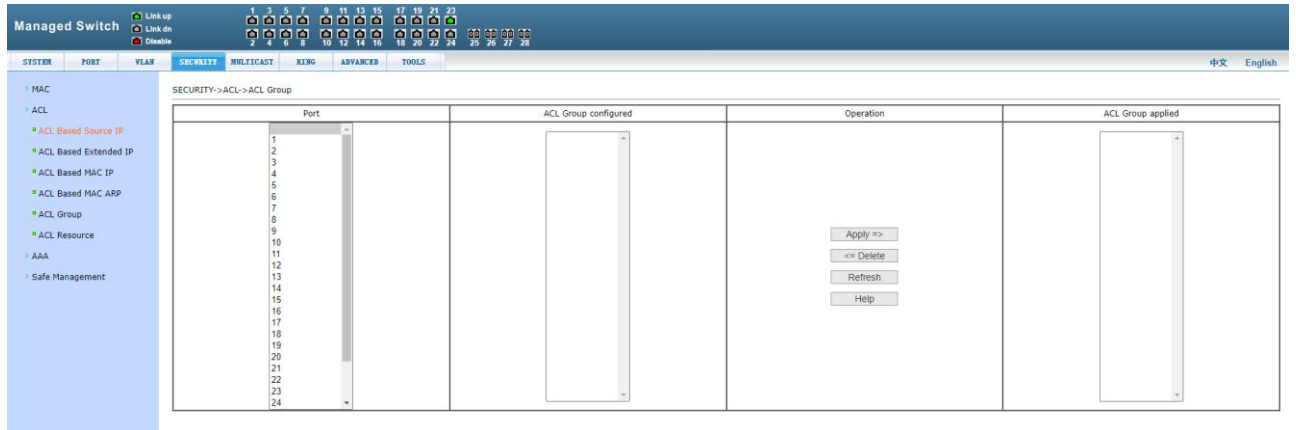


Figure 28, port application ACL page

### ⑥ ACL configuration information page

Figure 29 is the ACL configuration information page, which shows all the rules and reference information configured in the current ACL.

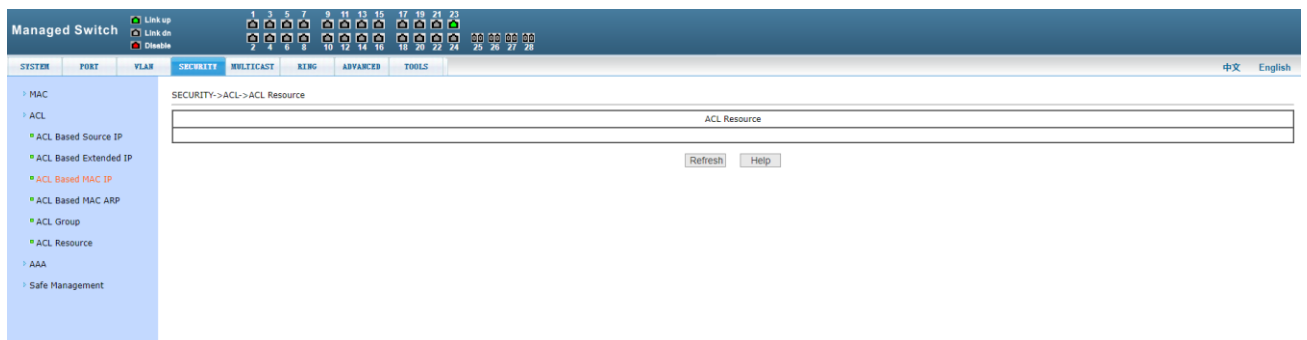


Figure 29, ACL configuration information page

## (3) AAA CONFIGURATION

### ① AAA Global configuration page

Figure 30 shows the AAA global configuration page. Users can configure AAA related information, including:

- Whether to start 802.1x protocol or not, it must be started when doing authentication and accounting.
- Whether to turn on the re-authentication function is not enabled by default. It is determined according to the actual situation when the authentication billing is made. Turning on the re authentication function will make users more reliable when using authentication billing, but will slightly increase the network traffic.
- Set the re authentication interval, which is valid only when the re authentication function is turned on. The default value is 3600 seconds. When doing authentication billing, set the value according to the actual situation, but the value should not be too small.
- The IP address of radius server must be set in authentication billing.
- The IP address of the alternate radius server. If there is a standby radius server, this field can be set.
- The shared key is used to set the encrypted shared password between the switch and the radius server. This field must be set during authentication and billing, and it should be the same as that on the radius serve.
- Whether to start billing or not, it is started by default. When doing authentication billing, it is generally required to start charging.

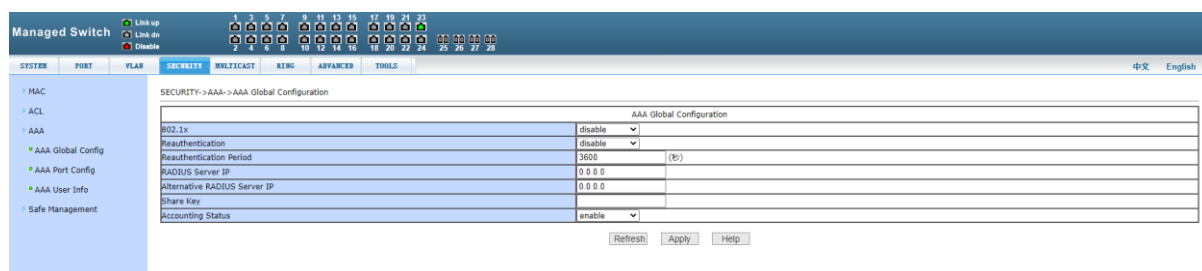


Figure 30, AAA global configuration page

## ② AAA Port configuration page

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Figure 31 is the AAA port configuration page. Through this page, users can configure the authentication port mode and the maximum number of hosts supported, and view the configuration of each port. To modify the port AAA configuration, users need to check the left side of the corresponding port or use the "select all" function. The selected port will be displayed at the top of the page, and several consecutive ports are represented by connection numbers. After successful setting, the selected port will be configured with the same parameters. There are four types of AAA port modes: n/a state, auto state, force authorized state, and force unauthorized state. When a port needs 802.1x authentication, the port should be set to auto state. If you can access the network without authentication, set the port to N/A state. The other two states are rarely used in practical applications.

The screenshot shows the 'AAA Port Configuration' page in the 'Managed Switch' web interface. The left sidebar contains a navigation menu with options: MAC, ACL, AAA, AAA Global Config, AAA Port Config (selected), AAA User Info, and Safe Management. The main content area is titled 'SECURITY->AAA->AAA Port Configuration'. It features a table with columns: Port, Port Mode, and Support Host Num. The table lists ports 1 through 13, all with 'N/A' mode and '256' support host num. Above the table, there are fields for 'Selected Port(s)', 'Port Mode' (set to 'Force-Unauthorized'), and 'Support Host Num' (set to '256'). There are also 'Refresh', 'Apply', and 'Help' buttons.

Port	Port Mode	Support Host Num
1	N/A	256
2	N/A	256
3	N/A	256
4	N/A	256
5	N/A	256
6	N/A	256
7	N/A	256
8	N/A	256
9	N/A	256
10	N/A	256
11	N/A	256
12	N/A	256
13	N/A	256

Figure 31, AAA port configuration page

When doing 802.1x authentication, the maximum number of hosts accessed by the port is 256 by default. Users can modify this field to support 256 hosts at most.

### ③ AAA User information page

Figure 32 is the AAA user information page, through which users can view the status information of all users accessed under a certain port.

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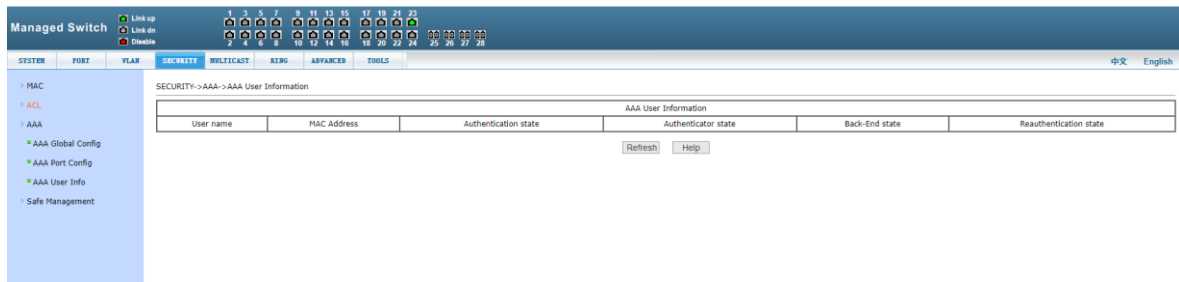


Figure 32, AAA user information page

### (4) Local management security configuration

#### ① Management rights configuration page

Figure 33 is the management authority configuration page. Through the configuration of this page, the administrator can control the network management services Telnet, web and SNMP, enable or disable these services, connect these services with ACL group of IP standards, implement source IP address control, and control host access to these service.

By default, Telnet, web and SNMP services are open, and ACL filtering is not performed. That is to say, all hosts can access the three services of the switch. If the administrator does not want to provide one or more services to other users for security, one or more services can be shut down. If the administrator wants only a specific host to access one or more services, one or more services can be filtered by ACL. When a service wants to perform ACL filtering, it is necessary to open the service and select an ACL group (1-99) of IP standard. At this time, the ACL group must exist.

It should be noted that if the administrator controls the web service (such as closing the web service) on this page, the user may no longer be able to use the web page. At this time, the user can log in to the switch and control the web service through other ways, so that the user can use the web page (such as opening the web service).

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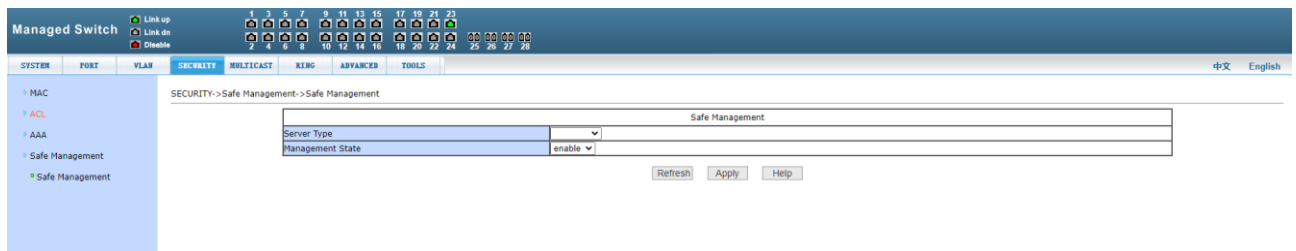


Figure 33, management rights new configuration page

## 5、 Multicast configuration

### (1) IGMP SNOOPING CONFIGURATION

#### ① IGMP SNOOPING CONFIGURATION PAGE

Figure 34 shows the IGMP snooping configuration page. Users can enable IGMP snooping through this page.

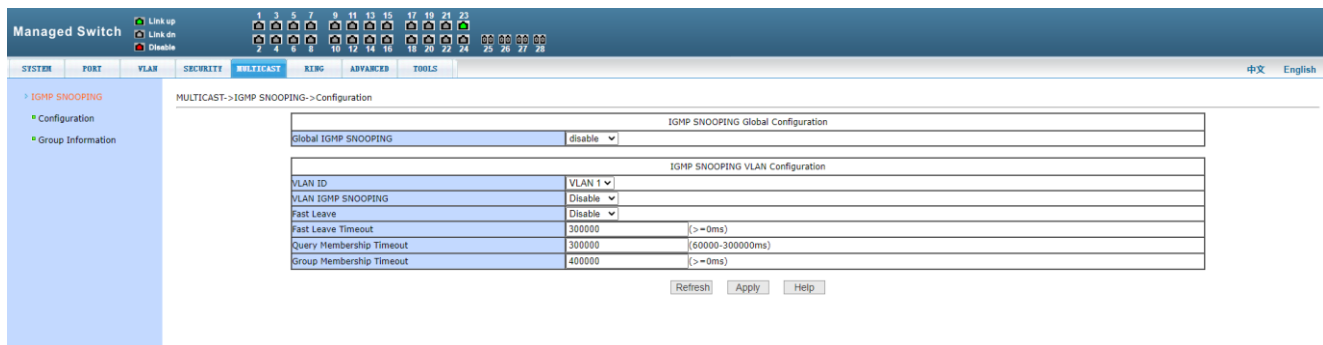


Figure 34, IGMP snooping configuration page

#### ② Multicast group information page

Figure 35 is the multicast group information page, through which users can view IGMP snooping multicast information.

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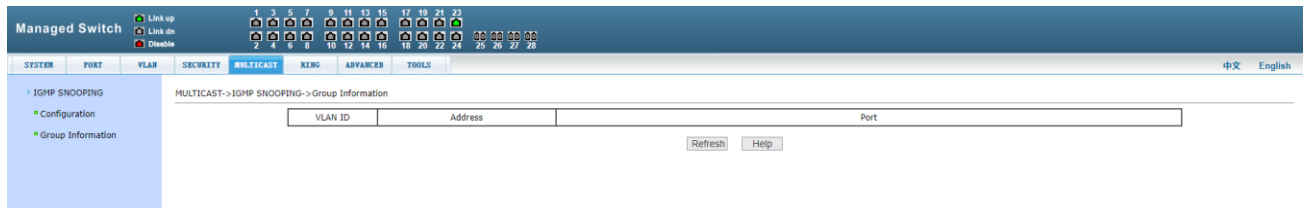


Figure 35, multicast group information page

## 6、Reliability Application

### (1) Spanning tree configuration

#### ① Spanning tree global configuration page

Figure 36 shows the spanning tree global configuration page, through which users can configure the global spanning tree parameters.

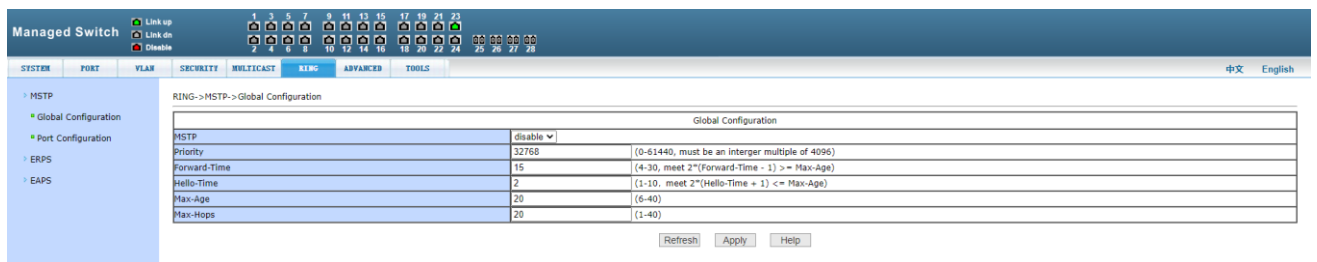


Figure 36, global configuration page of spanning tree

#### ② Spanning tree port configuration page

Figure 37 shows the port configuration page of spanning tree. Users can view the specific status of MSTP through this page.

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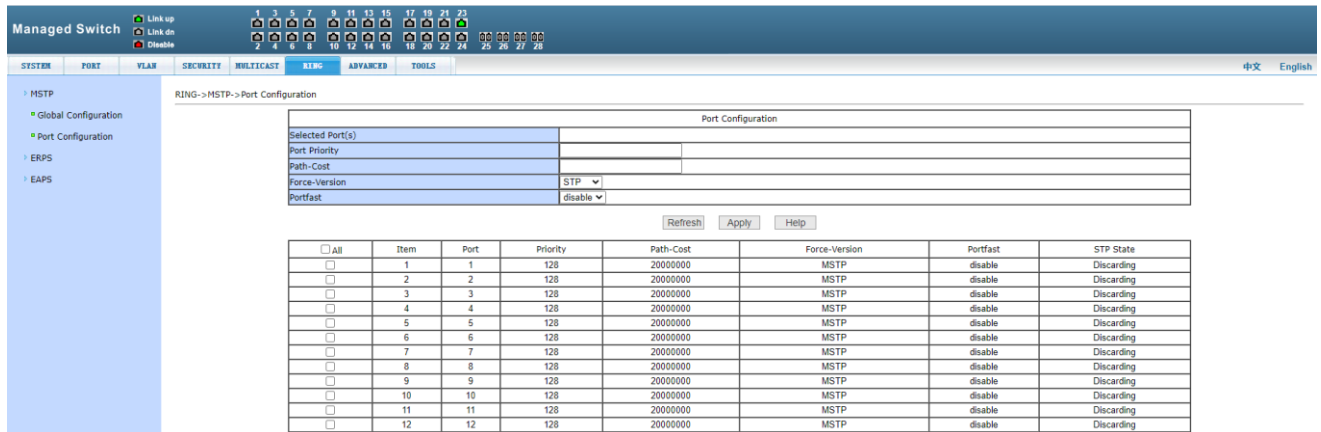


Figure 37, spanning tree port configuration page

## (2) ERPS CONFIGURAION

### ① ERPs predefined configuration page

Figure 38 shows the ERPs predefined configuration page, which enables the ERPs predefined configuration. When the ERPs predefined configuration is enabled, you can specify the node type: primary or transport.

Specific predefined configuration: ERPs instance number is 1, ERPs change number is 1, ring mode is main ring mode, protocol VLAN is vlan3001, data VLAN is vlan1, RPL port is 51, RL port is 52, recovery behavior is recoverable, hold off time is 0, guard time is 500 ms, WTR time is 5 minutes, WTB time is 5 seconds, and protocol message sending time is 5 seconds.

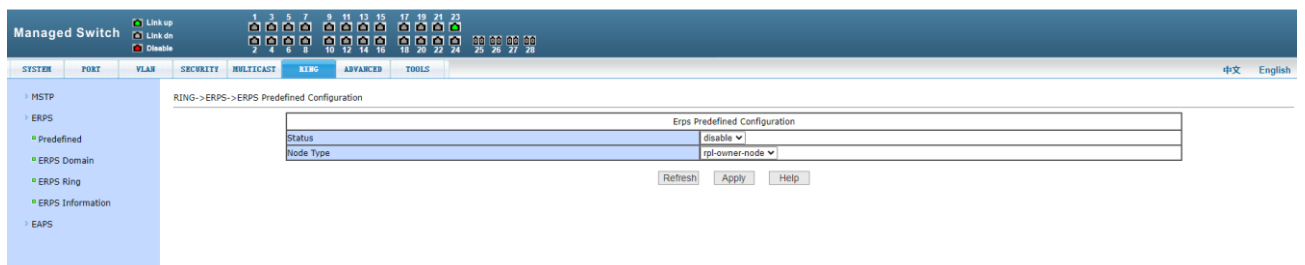


Figure 38, ERPs predefined configuration page

## ② ERPs instance configuration page

Figure 39 is the ERPs instance configuration page, which can be used to configure ERPs instances. When the instance is not created, click apply to create and specify the role; when the instance has been created but there is no associated ring, the role can be modified; if the instance has been created and associated with a ring, the instance cannot be modified. Click “Delete” to delete the selected instance. You can configure up to 8 instances.

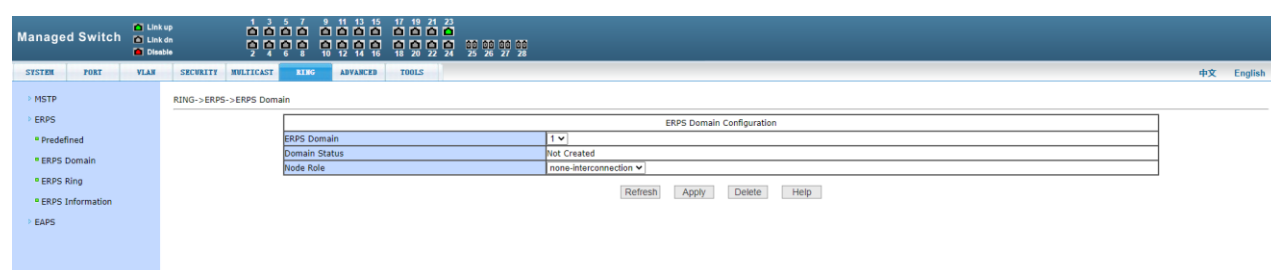


Figure 39, ERPs instance configuration page

## ③ ERPs ring configuration page

Figure 40 shows the ERPs ring configuration page, which allows you to create and configure ERPs rings. Select a ring. When the ring is not created, click the Apply button to create the ring and set the configuration information. If it has been created, the configuration information can be modified. Click the delete button to delete the selected ring. Rings must and can only be associated with one instance, and a maximum of 32 rings can be configured. When the ring fault is detected, click the manual recovery button to recover.



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The screenshot shows the 'Managed Switch' web interface with the 'RING' tab selected. The left sidebar contains a tree view with 'MSTP', 'ERPS', 'Predefined', 'ERPS Domain', 'ERPS Ring', 'ERPS Information', and 'EAPS'. The main content area is titled 'RING->ERPS->ERPS Ring' and displays the 'ERPS Ring Configuration' form. The form includes fields for 'ERPS Ring' (set to 1), 'Ring Status' (Not Created), 'Domain', 'Ring Mode', 'Node Mode', 'Raps VLAN' (0), 'Traffic VLAN' (format 2.4.6), 'RPL Port', 'RL Port', 'Revertive Behaviour' (revertive), 'Hold-off Time' (0), 'Guard Time' (500), 'WTR Time' (5), 'WTR Time' (5), 'Raps-send Time' (5), 'ERPS Ring Enable' (disable), 'Forced Switch RPL Port', 'Forced Switch RL Port', and 'Manual Switch Port'. At the bottom of the form are buttons for 'Refresh', 'Apply', 'Delete', 'Recover', and 'Help'.

Figure 40, ERPs ring configuration page

### ④ ERPS MESSENGE PAGE

Figure 41 shows the ERPs information page. Selecting the ring number will display the configuration and status information of the relevant ERPs ring.

The screenshot shows the 'Managed Switch' web interface with the 'RING' tab selected. The left sidebar is the same as in Figure 40. The main content area is titled 'RING->ERPS->ERPS Information' and displays the 'ERPS Ring Information' form. The form includes a dropdown for 'ERPS Ring' (set to 1) and a section for 'ERPS Ring Information'. At the bottom of the form are buttons for 'Refresh' and 'Help'.

Figure 41, ERPs information page

## 7、Advanced configuration

### (1) IP BASIC CONFIGURATION

#### ① VLAN PORT CONFIGURAION PAGE

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Figure 42 is the VLAN interface configuration page, through which users can configure the IP address of the interface, delete the IP address of the interface and view the interface information.

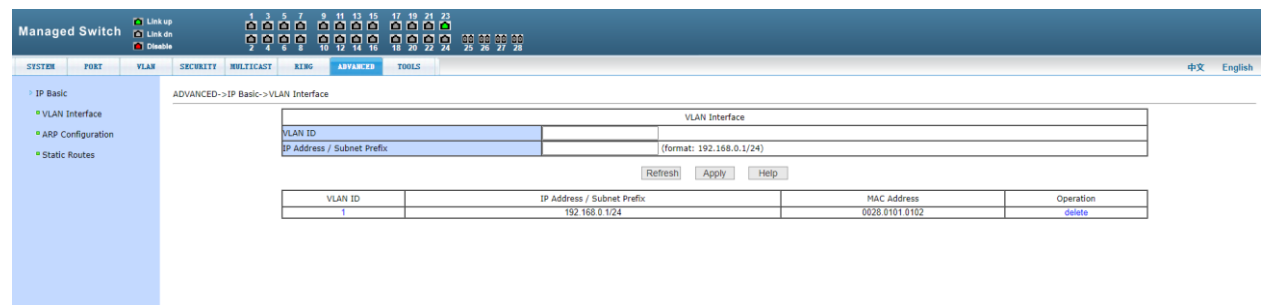


Figure 42, VLAN interface configuration page

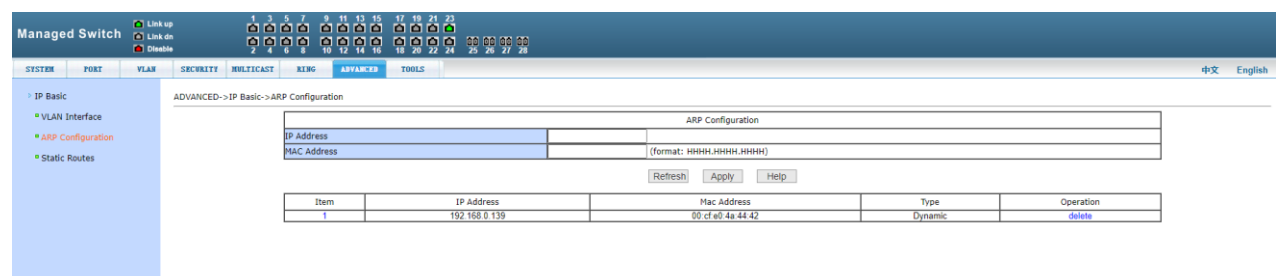
This switch has a vlan1 interface by default, which cannot be deleted. A VLAN can only be configured with one interface.

## ② ARP CONFIGURATION PAGE

Figure 43 is the ARP configuration page, which can display all the information of the ARP table of the switch. At the same time, users can configure static ARP entries, delete ARP entries, and modify dynamic ARP entries to static ARP entries.

When configuring a static ARP entry, the user needs to input IP address and MAC address. MAC address must be unicast MAC address, and then click Apply button.

When the user is deleting an ARP entry, click the corresponding delete link in the list.



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Figure 43, ARP configuration page

### ③ Static route configuration page

Figure 44 is the static route configuration page, through which users can add or delete static routes of switches. By default, the switch does not have a static route configured. Users can configure the default route through this page, that is, the route with destination address / subnet prefix of 0.0.0.0/0.

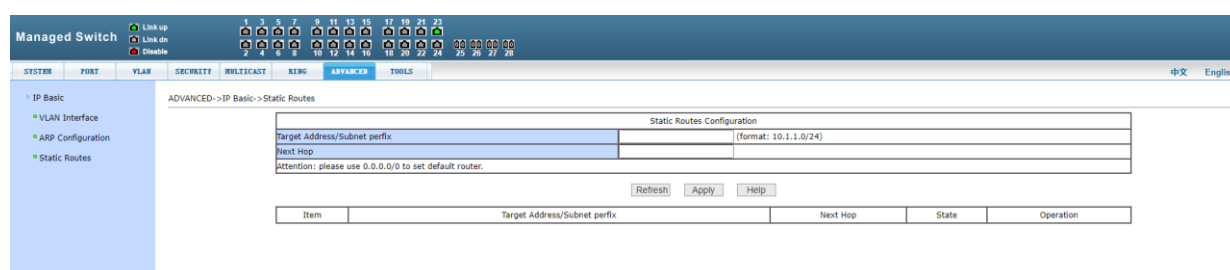


Figure 44, static route configuration page

## 8、SYSTEM TOOL

### (1) Saved configuration page

Figure 45 shows the save configuration page. Through this page, users can view the current configuration of the switch. The Save button stores the current configuration of the system to the configuration file. Note that the storage operation will erase the flash chip, and this may take a certain amount of time. When the user has made the configuration on the page and hopes that the configuration will not be lost after the switch is restarted, the user must click the Save button in the current configuration page before exiting the page.

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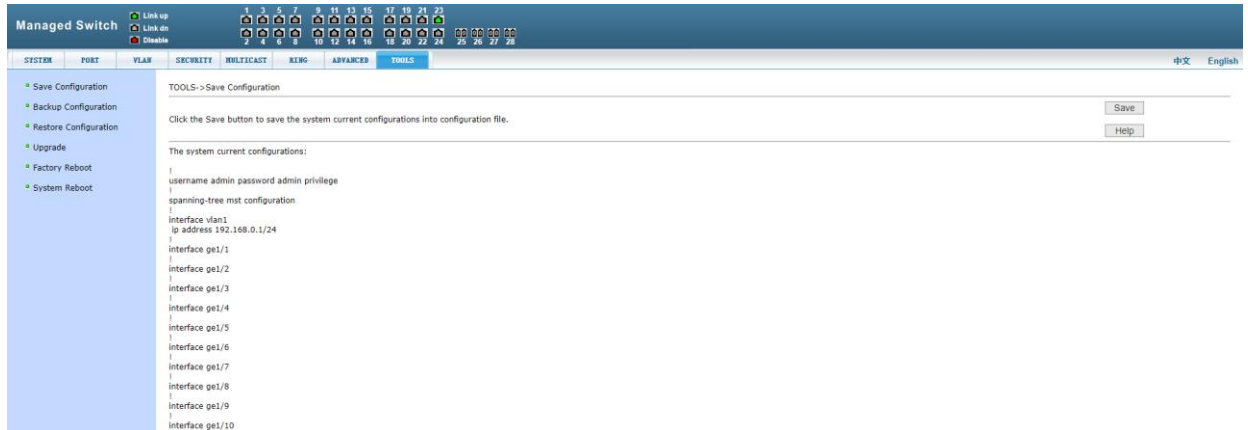


Figure 45, save configuration page

### (2) Backup profile page

Figure 46 shows the backup profile page. This page allows the user to view the initial configuration of the system. The initial configuration is actually the configuration file in flash. When there is no configuration file in flash, the default configuration is used when the system starts. Click the Backup button, and a dialog box will pop up. The user can select the path to save the directory and save the configuration file. The file name of the downloaded configuration file is by default switch.cfg.



Figure 46, backup profile page

### (3) Restore profile page

Figure 47 shows the recovery profile page, through which the user can upload the configuration file to the switch. Click the Browse button to select the directory

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path of the uploaded configuration file on the PC. Click the upload button to upload the configuration file. The suffix of the configuration file must be \*.cfg. Before the transfer result page returns, please do not click on other pages or restart the switch; otherwise, it will cause file transfer failure and system crash.

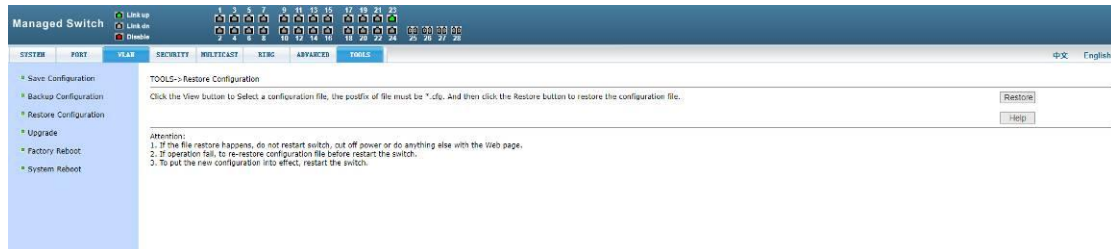


Figure 47, restore profile page

### (4) Software upgrade page

Figure 48 is the software upgrade page, through which users can upload image files to the switch. Click the Browse button to select the directory path of the uploaded image file on the PC. Click the upload button to upload the image file. It must be provided by the manufacturer and the suffix of the file name must be \*.img. Before the transfer result page returns, please do not click on other pages or restart the switch; otherwise, it will cause file transfer failure and system crash.

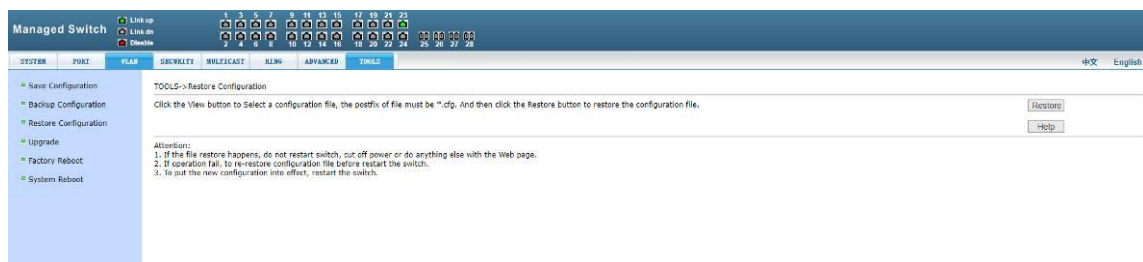


Figure 48, software upgrade page

### (5) Restore factory configuration page

Figure 49 shows the restore factory configuration page. This page allows the user to delete the configuration file in flash to restore to the factory configuration. Click the restore factory configuration button, a dialog box will pop up to prompt the

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user whether to confirm. After restoring the factory configuration, the exchange machine will restart automatically to make the factory configuration effective. Please use the default IP address and password when logging in next time.



Figure 49, restore factory configuration page

### (5) Restart page

Figure 50 is the restart page through which the user restarts the switch. When you click the restart button, a dialog box will pop up to prompt the user whether to restart the switch. If so, press the OK key, otherwise press the cancel key. You will no longer be able to open web pages when you restart.

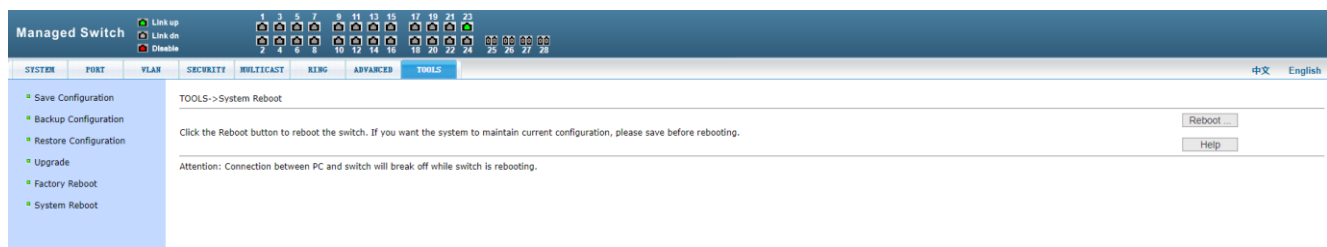


Figure 50, restart page

## **PURELINK VIP-NET-4804PL3-1G**

### **Warranty**

PureLink Five (5) Year Limited Warranty for PureStream™ Branded Products Only

Dtrovision, LLC. (hereinafter "PureLink") warrants its HDTools and PureStream™ branded products (hereinafter "Product") purchased directly from PureLink or Dealer shall be free from defects in workmanship and materials, under normal use and service, for a period of five (5) years on parts and five (5) years on labor. Any repaired or replaced equipment related to Product shall be covered only under the remaining portion of the warranty. This warranty has no relationship to and exists independently of any warranty offered by Dealer. This warranty is a limited warranty and gives you specific legal rights. You may also have other rights which vary from state to state.

### **TERMS & CONDITIONS**

PureLink shall repair or replace the Product if it develops a material fault during the period of warranty, on condition that i) the Product has only been subject to normal use in a domestic or commercial environment in a manner consistent with its specification and functionality, ii) the Product has been cared for reasonably and only subjected to reasonable wear and tear, iii) the defect has not been caused by willful or negligent abuse or neglect, or any accident or improper installation procedure, iv) the serial number of the Product has not been altered or removed. This warranty only applies to the original purchaser, and shall be the exclusive remedy to the original purchaser. PureLink shall not be liable for any damages whatsoever caused by Product or the failure of Product to perform, including incidental or consequential damages. PureLink shall not be liable for any claim made by a third party or made by the purchaser for a third party. Except as expressly set forth in this warranty, PureLink makes no other warranties, expressed or implied, including any implied warranties of merchantability and fitness for a particular purpose. PureLink expressly disclaims all warranties not satisfied in this limited warranty. Any implied warranties that may be imposed by law are limited to the terms of this limited warranty. This warranty statement supersedes all previous warranties.

### **WARRANTY RETURNS/REPAIRS/EXCHANGES**

No merchandise may be returned without prior authorization from PureLink, and a Return Materials Authorization (RMA) number. Failure to comply with these conditions will result in rejection of the returned merchandise. Any warranty service on Products must be arranged through Dealer. Authorized returns must be shipped freight prepaid and fully insured to PureLink, Fair Lawn, NJ USA, with the RMA number clearly marked on the outside of all shipping boxes and containers. PureLink reserves the right at its sole discretion to refuse any shipments arriving freight collect or without an RMA number. Any authorized returned merchandise must be accompanied by a note describing the reason for return, along with contact information including name, phone number, return mailing and shipping addresses, e-mail address, and RMA number. On any products returned and accepted with an RMA number, return freight charges following repair of items under warranty shall be paid by PureLink, shipping by the standard ground carrier of its choice.

## **PURELINK VIP-NET-4804PL3-1G**

### **ADVANCE WARRANTY REPLACEMENTS**

PureLink's advance replacement service offers a Replacement Unit upon request - free of charge for eligible products purchased less than one (1) year of the warranty claim. Products purchased more than one (1) year prior to the warranty claim do not qualify for advance replacement services. Advance replacement requests must be validated by a member of PureLink's Technical Support Team. Replacement units may be new or refurbished and are subject to availability. PureLink is responsible for shipping the Replacement Unit to your designated location by standard ground service. All other shipping methods will be the responsibility of the Dealer. Original Unit Return – the Original Unit must be returned within thirty (30) calendar days of the return authorization date. Failure to return the Original Unit within this period will be subject to a minimum 15% re-stocking fee. Dealer is solely responsible for the shipping of the Original Unit to PureLink.

### **TO MAKE A WARRANTY CLAIM**

To make a warranty claim, promptly notify PureLink within the warranty periods described above by calling PureLink's Technical Support Department at 1-201-488-3232. PureLink, in its sole discretion, will determine what action, if any, is required under this warranty. Most problems can be corrected over the phone through close cooperation between Customer and a PureLink technician. To better enable PureLink to address a warranty claim, please have the Product's serial and model numbers. If PureLink, in its sole discretion, determines that an on-site visit or other remedial action is necessary, PureLink may send a representative to Customer's site.

### **CUSTOMER SERVICE**

Technical support inquiries can be submitted electronically through the PureLink website at [www.purelinkav.com](http://www.purelinkav.com). For immediate assistance please contact PureLink's Customer Care Team at +1 (201) 488-3232.