

Ruijie XS-S1960-H Series Switches

Web-Based Configuration Guide, Release 11.4(1)B12P17

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Preface

Thank you for using our products.

Audience

This manual is intended for:

- Network engineers
- Technical support and servicing engineers
- Network administrators

Obtaining Technical Assistance

- Ruijie Networks Website: <u>https://www.ruijienetworks.com/</u>
- Technical Support Website: <u>https://ruijienetworks.com/support</u>
- Case Portal: <u>http://caseportal.ruijienetworks.com</u>
- Community: <u>http://community.ruijienetworks.com</u>
- Technical Support Email: <u>service_rj@ruijienetworks.com</u>
- Skype: <u>service_rj@ruijienetworks.com</u>

Related Documents

Documents	Description
Command Reference	Describes the related configuration commands, including command modes, parameter descriptions, usage guides, and related examples.
Hardware Installation and Reference Guide	Describes the functional and physical features and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.

Conventions

This manual uses the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in boldface .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ x y z }	Alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.

Symbols

() Means reader take note. Notes contain helpful suggestions or references.

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

1 Web-based Configuration

1.1 Overview

Users access the Web management system (eWeb) of switches through a browser (for example Google Chrome) to manage the switches.

The eWeb consists of the Web server and Web client. The Web server is integrated into the switch and is used to receive and process requests from the client (reading Web files or executing commands), and return the processing results to the client. The Web client is usually a Web browser, such as Google Chrome.

1 This document applies only to XS-S19-H series switches.	
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1.2 Typical Application

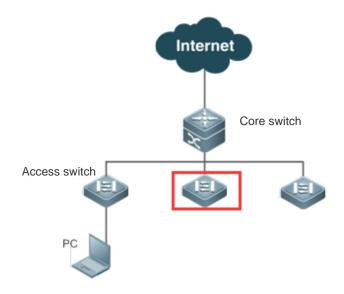
Typical Application	Description
Managing Devices via eWeb	After switches are configured, you can access the eWeb through a browser.

1.2.1 Managing Devices via eWeb

Scenario

As shown in Figure 1, you can access the eWeb of an access or aggregation switch through a browser to manage and configure the switch.

Figure 1



Remarks The device enclosed in the red rectangle in the preceding figure is the accessed switch. If the switch can be pinged successfully from the PC, you can access the eWeb of the switch.

Deployment

U Configuration Environment Requirements

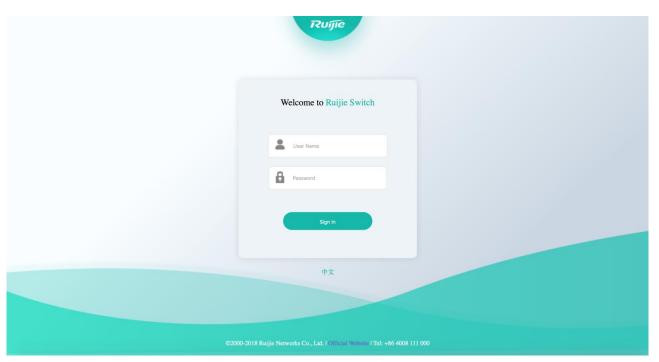
Client requirements:

- The administrator can log in to the eWeb from the browser of the Web client to manage switches. Clients refer to PCs or other mobile terminals such as laptops.
- Browser: Google Chrome (recommended), Firefox, and Safari are supported. Exceptions such as garbles or format errors
 may occur if an unsupported browser is used.
- Resolution: It is recommended to set the resolution to 1024 x 768, 1280 x 1024, 1440 x 960, or 1920 x 1080. If other resolutions are used, the page fonts and formats may not be aligned and the UI is not artistic, or other exceptions may occur.
- Web configuration and command line interface (CLI) configuration can be performed at the same time. After CLI configuration is complete, enter the write command to save the configuration. If a web page is opened, refresh the page to ensure synchronization between web and CLI configurations.

Logging In to the eWeb

Enter the switch's management IP address (http://192.168.1.200 by default) in the address bar of a browser and press **Enter** to open the login page. You can select Chinese or English on the login page.

Figure 2 Login Page



Specify the username and password and click **Sign In**. The following table describes the default username and password.

Default Username/Password	Permission Description
admin/admin	Super administrator with all permissions

After authentication is successful, the eWeb home page is displayed, as shown in Figure 3.

Figure 3 eWeb Home Page

Ruífie			XS-51960-24GTASEP-UP-H	Uptime I	0D:02H:05I
960-24GT4SFP-UP-H Detail >>	CPU & Memory Usage		Flash Usage	Temperature	
Dashboard Port VLAN Diagnosis	3% CPU Usage 47% Memory Usage		6.58%		42°c
More	Hardware Status Power Running Status: Normal	Traffic Throughput 0.01% 0.01%	> PoE Status 33.0 w Used	> Alarms Major Normal	0 >
	Fan Running Status: Normal	Input Output	Total: 370.0 W Used: 8.92%	Minor	620 >

1.3 eWeb

Basic Concepts

U Icons and Buttons on Graphical User Interfaces (GUIs)

Icon/Key	Description
<i>I</i>	Edit. After you click the icon, you can edit the selected record.
面	Delete
	Function enabling/disabling icon
	Available port. After you click or select the icon for a port, the port status is changed to Selected .

<u> </u>	Unavailable port
1	Selected port
<u>1</u>	AG Port. The digit in the port indicates the aggregation port number.
<u>.</u>	Trunk port, displayed on the panel of the VLAN settings page
Save	Save button, for submitting and saving input information
Add	For adding settings
Delete	For deleting settings
All Invert Cancel	Panel port batch processing buttons, in the lower right corner of the panel
	Note: These buttons are available only on panels where multiple ports can be selected.
*	Mandatory item. If an input box carries this symbol, the item is mandatory.

System Operations

Port panel

🕂 Available 📄 Unavailable 📄 Selected 🚹 AG Port		Copper SFP
	25 26 27 28	
Note: Click the left mouse button to select multiple ports.	All Invert Cancel	

Port panel operation

Click the port icon on the panel or drag the mouse to select multiple ports to change the port status from **Available** to **Selected**. Then, set selected ports, for example, add port description, port mirroring, and port rate limit.

Feature

The following table describes feature configurations of the first-level and second-level menus in the left navigation tree of the eWeb.

Feature	Description
Search	Allows keyword-based global searches, to enter the configuration page of a function quickly.
Help	Provides five technical service modes, including Skype, email, and official website.
Language	Supports switching between Chinese and English.
Wizard	Supports simple configuration through the configuration wizard.

Dashboard	Displays port information and overall device running status.				
Dort	Sets basic port information, port aggregation, port mirroring, port rate limit, and storm				
Port	suppression.				
VLAN	Sets virtual local area networks (VLANs), trunk ports, and IP addresses.				
Diagnosis	Performs the ping, traceroute, or cable detection operations.				
MAC Address	Sets the static and filtering addresses.				
Routing	Sets routes.				
ARP Entry	Sets Address Resolution Protocol (ARP) entries.				
	Allocates Dynamic Host Configuration Protocol (DHCP) and static addresses, and sets the				
DHCP Server	client list.				
DHCP Relay	Sets the DHCP relay.				
	Sets the time range, access control list (ACL), ACL application, classification, policy, and				
ACL & QoS	stream.				
STP & RLDP	Sets the global basic information of Spanning Tree Protocol (STP), STP ports, and RLDP.				
NFPP	Displays content related to NFPP guard.				
Port Protection	Sets port protection.				
Port Security	Sets basic port security information and security binding.				
IP Source Guard	Sets ports and user binding.				
Anti ARP Spoofing	Sets gateway ARP spoofing, ARP check, and dynamic ARP inspection (DAI).				
IGMP Snooping	Sets Internet Group Management Protocol (IGMP) snooping.				
DHCP Snooping	Sets DHCP snooping.				
PoE	Sets global power over Ethernet (PoE) and content related to port PoE.				
DNS	Sets static domain name server (DNS).				
Convice	Sets Web, Telnet, Secure Shell (SSH), and Simple Network Management Protocol (SNMP)				
Service	services.				
System Log	Sets the log server and queries system logs.				
Time & NTP	Sets the system time, Network Time Protocol (NTP) key, and NTP server.				
System Restart	Restarts the device.				
Restore to Default	Restores to the factory settings.				
Backup	Backs up the current configurations.				
System Upgrade	Performs local upgrade and web package online upgrade.				

1.3.1 Search

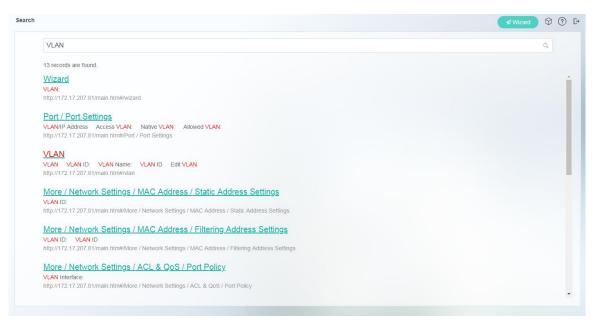
The Search box is always displayed in the upper right corner of the eWeb home page, as shown in Figure 4.

Figure 4 Search Box

Dashboard			Q 🛛 🔊 🗐 Wizard	\$? ₽
Device Panel			Uptime OD	:00H:25M
CPU & Memory Usage		Flash Usage	Temperature	
7% CPU Usage 49% Memory Usage		5.30%		36°c
Hardware Status Traffic Throughp	ut >	PoE Status	Alarms	
Power Running Status:	0.01%		Major	0 >
Fan Running Status: Normal	Output	(Do not support PoE)	Minor	7 >

Enter the keyword to be searched in the Search box and press **Enter** or click the search icon. The search results are displayed, as shown in Figure 5.

Figure 5 Search Results



Click a title or link in the search results to enter the configuration page of the corresponding function.

1.3.2 Help

The Help icon is always displayed in the upper right corner of the eWeb home page, and five technical service modes are provided. After you click the Help icon, the following five technical service modes are displayed:

- 1. Live Chat (with the Skype icon)
- After you click Live Chat, the online Skype chat window is displayed.
- 2. Mail-to (with the Mail-to icon)

After you click **Mail-to**, the Mail-to window of the eWeb is displayed.

- 3. Ruijie Official Website (http://ruijienetworks.com/)
- 4. Ruijie Case Portal (http://caseportal.ruijienetworks.com)
- 5. FAQ (http:// community.ruijienetworks.com)

Figure 6 Help



1.3.3 Language

The Language icon is always displayed in the upper right corner of the eWeb home page. Switching between Chinese and English is supported. You can select either language on the eWeb home page or the login page.

Figure 7 Language

Configuration Guide

hboard					Q	izard 🕥 🕐 [
evice Panel					Upt	tim English 简体中文 12
		5 419 ¥20 421 ¥22 423 ¥24	XS-S1960-24GT4SFP-UF			
PU & Memory Usage			Flash Usage	Temper	ature	-
12% CPU Usage	hamma	m	4.50%			40°c
	humme	~~~~ 	4.50%)		40°c
CPU Usage 47% Memory Usage	Traffic Throughput	~~~~	4.50%	> Alarms		40°c
CPU Usage /	/	0.01%			Aajor	40°c
CPU Usage 47% Memory Usage , rdware Status	Traffic Throughput		> PoE Status	Ν	fajor Iormal	

1.3.4 Wizard

The Wizard icon is always displayed in the upper right corner of the eWeb home page. When you use the eWeb for the first time, a welcome page is displayed. Click **Yes** and configure **Password**, **Management IP**, **Device Location**, **Remote Control**, and **Cloud Management** in sequence on the **Config Wizard** page. The **Complete** page displays configured information. Finally, click **Finish**.

Figure 8 Welcome

Welcome to eWeb system

It is recommended to configure the basic information through Config Wizard. Do you want to enter Config Wizard?

Do not show this again	No	Yes

Figure 9 Password

Config Wi	zard				×
1—	2	3	4	5	6
Password	Management IP	Device Location	Remote Control	Cloud Management	Complete
	Change your password Web Password:	l and click on Ne	kt, or click on <mark>Skip</mark> .		
	New Pass	word:		ø	
		Cancel	Next >		
Figure 10 Man	agement IP				

Configuration Guide

Config Wiz	ard					×
1	2		3		5	6
Password	Manage	ment IP	Device Location	Remote Control	Cloud Management	Complete
	Change the n VLAN: IP Address:	1 DHCP Static IP Add IP Mas	IP Address	click on Next .		
			< Back	Next >		

You can select **DHCP** for **IP Address** to obtain a dynamic IP address or configure a static management IP address.

After you change **Static IP Address** to **DHCP** and click **Next**, the following information is displayed, prompting you to log in to the device over a serial port to obtain the new IP address. After you click **OK**, the **Device Location** page is displayed.

Figure 11 Prompt

Configuration	Guide
---------------	-------

Config Wiz	zard				×
1	2	3		5	6
Password	Management IP	Device Location	Remote Control	Cloud Managemen	t Complete
	After finishing config the switch by connec address into the addr	ting the PC to the co ess bar of the brows	onsole port of the	switch and enter the	IP
Figure 40 Da	- in London	Cancle	ок		
Figure 12 De	vice Location				
Config Wiz	zard				×
0-	2	3			6
Password	Management IP	Device Location	Remote Control	Cloud Management	Complete
	To find the device loca displayed on the devic Location Description:		-	-	00
		< Back	Next >		
Figure 13 Re	mote Control				

Con	figuration Guide	Э			Web-based	Configuration
o <i>a</i>						
Config Wiz	zard					\times
1	2				5	6
Password	Managemen	t IP Device L	ocation Rei	mote Control	Cloud Management	Complete
	If you want to cor a login account, c			lease select a	login method and set	
	Login Method:	elnet SSH				
	Login Account: 🔘	Use Web account (a	admin)			
		Set a new account				
	Acc	ount:				
	Pas	sword:				
			< Back	ext >		Co
nfigure the Te	Inet and SSH service	es and the service	e passwords.			

Figure 14 Cloud Management

Configuration Guide

Config Wi	zard						×
1	2)	3	4			6
Password	Managem	nent IP	Device Location	Remote Control	Cloud Manag	gement	Complete
Ruijie MACC service is enabled by default. If you want to manage this device on Ruijie MACC, please log in at http://cloud.ruijienetworks.com/ and add the SN of this device. If you do not want to manage this device on Ruijie MACC, please change the URL of the server. You can also disable Ruijie MACC service or click on Skip to keep the configuration unchanged.							
Ruijie Could Manage:		UR DN	L Address:	http://118.190.126. 172.16.2.26 Ping Test	198/service	•	
			< Back	Next >			

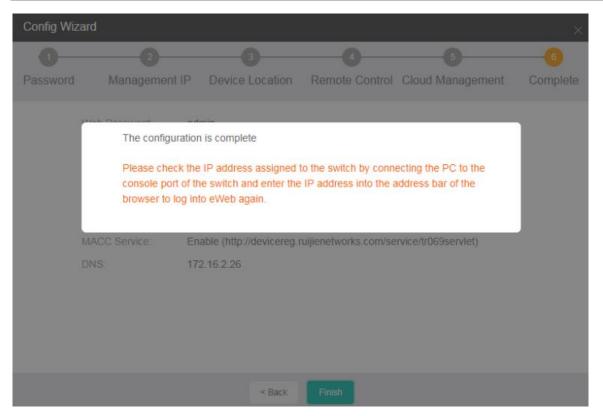
By default, Ruijie MACC is configured. You can change **URL Address** and **DNS Server** as required and click **Ping Test** to check whether the device can connect to the cloud management system.

Figure 15 Complete

Config Wiz	zard				×
1	2	3	4	5	6
Password	Management	IP Device Location	Remote Control	Cloud Management	Complete
	Web Password:	admin			
	Management IP:	DHCP			
	Location Description:				
	Login Method:	Support SSH and Telnet			
	Login Account:	Log in with Web account			
	MACC Service:	Enable (http://cloudtest.r	uijienetworks.com/se	ervice/tr069servlet)	
	DNS:	172.16.2.26 (Dynamic)			
		< Back	Finish		

Configured information is displayed. You can click **Finish** to deliver the configurations. When the management IP mode and IP address are not changed, the **Config Wizard** page disappears. When **Static IP Address** is changed to **DHCP**, the following information is displayed, prompting you to log in to the device through a serial port and view the new IP address.

Figure 16



When **DHCP** is changed to **Static IP Address**, the following information is displayed. Click the specified static IP address to switch to the new IP address.

Figure 17

Config Wiz	zard				×
1					6
Password	Management	IP Device Location	Remote Control	Cloud Management	Complete
	Mab Decoverd	admin			
	The configu	ation is complete			
	Please enter again.	<u>172.17.207.69</u> into the ad	dress bar of the brow	ser and log into eWeb	
	MACC Service:	Enable (https://cloudtest.	ruijienetworks.com/se	ervice/tr069servlet)	
	DNS:	8.8.8.8			
			_		
		< Back	Finish		

1.3.5 Dashboard

The eWeb home page displays basic device information, port status, CPU and memory usage changes, flash usage, temperature, power, fan, PoE status, device throughput, basic port information and statistics, and alarm information.

Figure 18 shows the eWeb home page.

Figure 18 eWeb Home Page

Ruíjie	Dashboard			🔍 🔍 Wizaro	0 0 F
	Device Panel			Uptime	0D:02H:05
51960-24GT4SFP-UP-H			X5-5165-240745FP-UP-H		
Detail >>	CPU & Memory Usage		Flash Usage	Temperature	
Dashboard	3%				
Port	CPU Usage	Le long Malland Martine	6.58%		42°c
VLAN	47%				
Diagnosis	memory Usage				
More	Hardware Status	Traffic Throughput	> PoE Status	> Alarms	
	Power Running Status:	0.01% 0.01%	33.0 W Used	Major	0 >
	Normal		•	Normal	18 >
	Fan Running Status: Normal		Total: 370.0 W Used: 8.92%	Minor	620 >
	Norman	Input Output			

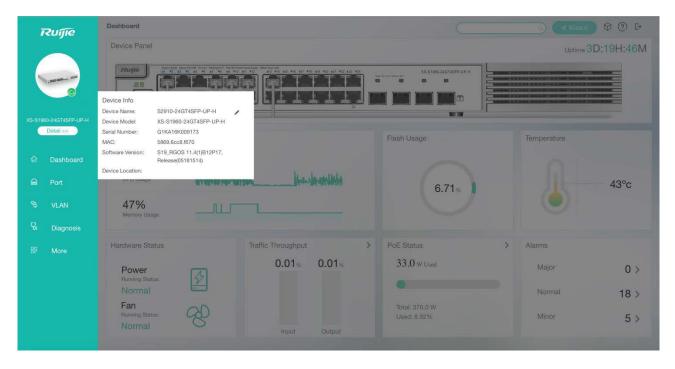
Point to the cloud icon in the lower right corner of the switch picture in the left navigation tree to check whether the switch is connected to the configured cloud.

Figure 19 Cloud Status

Ruijie	Dashboard			Q (1 Wiz	and) 🕸 🕐 🕩
	Device Panel			Uptin	ne 4D:00H:17M
S-S1960-10G Connect XS-S1960-10GT2SEP-P-H Detail >>	ed to MACC (http://cloudtest.ruijienetworks.com/service				
ගි Dashboard	CPU & Memory Usage		Flash Usage	Temperature	
⊖ Port	5% CPU Usage	hund daman had ment	7.18%		41°c
왕 VLAN 양 Diagnosis	47% Memory Usage				
88 More	Hardware Status	Traffic Throughput	> PoE Status	> Alarms	
	Power Running Status:	0.01% 0.01%	0.0 W Used	Major	0>
	Fan Running Status:		Total: 125.0 W Used: 0.00%	Minor	9>
		Input Output			

Point to **Detail** to view basic device information.

Figure 20 Basic Device Information



Device Panel: displays the online statuses of ports. When you point to an online port, detailed information about the port can be displayed. You can click the PoE icon on the left of the panel to switch between the switching and PoE modes.



Figure 21 Port Details

You can click > in the **Traffic Throughput** area to view the port status and data traffic statistics.

Figure 22 Port Traffic Statistics

Po	ort Info							3	
	Refresh								
10-24G Detai	Port	Status (Real speed)	Ingress	Egress	InOctets/OutOctets	UnderSize/OverSize	CRC/FCS Error	Collision Count	
	Gi0/1	Connected (1000M)	10159 bps	27943 bps	302278554/2479623 68	0/0	0/0	0	
Dat	Gi0/2	Not Connected	0 bps	0 bps	0/0	0/0	0/0	0	
Por	Gi0/3	Not Connected	0 bps	0 bps	0/0	0/0	0/0	0	3°c
WL.	Gi0/4	Not Connected	0 bps	0 bps	0/0	0/0	0/0	0	
Di	Gi0/5	Not Connected	0 bps	0 bps	0/0	0/0	0/0	0	
Mc	Gi0/6	Connected (1000M)	4144 bps	3397 bps	25949744/92939877	0/0	0/0	0	
	Gi0/7	Connected (1000M)	935 bps	2261 bps	16409587/82780522	0/0	0/0	0	0
	Gi0/8	Not Connected	0 bps	0 bps	0/0	0/0	0/0	0	18

You can click > of different severities in the **Alarms** area to view detailed information about the corresponding alarm severities.



Ruíjie	Dashboard	a) 💓 Wizard 😵 🕐 🗗
	Device Panel	Uptime 3D:20H:03M
	Alarm Detail	×
XS-S1920-2407-(SFP-UP-H) Detail 5> Detail 5> Detail 5> Port Port VLAN Q. Diagnosis	Pum 16 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 16 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/3, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/3, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/3, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/3, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/3, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:44-38: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:44-39: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 07:45-39: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/1, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29: S4LNK-3-UPDOWN: Interface GigabiEthernet 0/0, changed state to up. Tum 15 06:45:29:	perature 44°c
IP More	Pow	Jajor 0 >
	Nor	vormal 18 >
	Fan Runnin Nom	dinor 5 >

Click > in the **PoE Status** area to view PoE details.

Figure 24 PoE Details

 \times

0.0 W

Overall POE status statistics

Total:	125.0 W	Avaliable:	125.0 W
Consumption:	0.0 W	Remain:	125.0 W

Peak:

Powered Ports: 0

1.3.6 Port

On the Port page, you can set basic port information, aggregation ports, and port mirroring.

0.0 W

N Port Settings

Figure 25 Port Settings

Average:

	Port List								
· · · · · · · · · · · · · · · · · · ·	Batch Configu	ration							
	Action	Port	Status	Speed	Duplex	Interface	VLAN/IP Address	Desc	EEE
Detail >>	<i>Ĩ</i>	Gi0/1	Enable	Auto	Auto	ACCESS	Access VLAN: 1		Disable
	Ĩ	Gi0/2	Enable	Auto	Auto	ACCESS	Access VLAN: 1	**	Disable
Dashboard	<i>Ĩ</i>	Gi0/3	Enable	Auto	Auto	ACCESS	Access VLAN: 1	322	Disable
Port	<i>i</i>	Gi0/4	Enable	Auto	Auto	ACCESS	Access VLAN: 1	-	Disable
VLAN	<i>i</i>	Gi0/5	Enable	Auto	Auto	ACCESS	Access VLAN: 1	-	Disable
Diagnosis	<i>i</i>	Gi0/6	Enable	Auto	Auto	ACCESS	Access VLAN: 1		Disable
More	<i>i</i>	Gi0/7	Enable	Auto	Auto	ACCESS	Access VLAN: 1	942 1	Disable
	<i>Ĩ</i>	Gi0/8	Enable	Auto	Auto	ACCESS	Access VLAN: 1	ш.	Disable
	<i>i</i>	Gi0/9	Enable	Auto	Auto	ACCESS	Access VLAN: 1	~	Disable
	<i>i</i>	Gi0/10	Enable	Auto	Auto	ACCESS	Access VLAN: 1		Disable

Batch Configuration •

Click Batch Configuration. The Batch Configuration page is displayed. You can scroll down to view configurable items.

Specify Status, Speed, Duplex, Rate Limit, and Storm Control. No Change indicates that the original configuration is retained. Select the required port and click Save to complete configuration. During batch settings, you can specify No Change to implement batch settings of one or more items.

Figure 26 Batch Configuration

Basic						
Batch Configuration Status:	No Change		Interface:	No Change	*	
Action Duplex:	No Change					
Gio/1 Speed:	No Change					
Description:	No Change					
Advanced						
Cii0/4	No Change 🔹					
/ GI0/5	To enable EEE function, the peer-end port must enable EEE function as we					
Rate Limit						
Ingress Rate Limit:	No Change					
		Range(64-1000000 Kbp	os)(The value			
		varies with port types.)				
Egress Rate Limit:	Enable Auto	varies with port types.)	e Cancel			
Egress Rate Limit:		Save	Cancel	Access VLAN: 1 Annees MLAN: 1 VLAN/IP Address	Desc	Disable
	No Change 👻	Save		Ampee VI ANE 1		Disable
Storm Control	No Change	Save	Interface	Annee VI AN: 1 VLAN/IP Address	n Desc n	Disabi
Storm Control	No Change	Id Duplex Auto	Interface	Annee VI AN: 1 VLAN/IP Address	 Desc 	Disabi
Storm Control	No Change Spen Statuse Spen No Change Aut	Id Duplex Auto	Interface ACCESS ACCESS	Armees VI AN- 1 VLAN/IP Address Access VLAN: 1 Access VLAN: 1	 Desc 	Dientvie
Storm Control Type: Select Port: Select Port:	No Change	Save Image: Save	Interface ACCESS ACCESS ACCESS ACCESS	Armees VI AN- 1 VLAN/IP Address Access VLAN: 1 Access VLAN: 1	The second secon	Dientyle
Storm Control Type: Select Port: Select Port:	No Change	Save	ACCESS ACCESS ACCESS ACCESS ACCESS	Access VLAN: 1		Disabi
Storm Control Type: Select Port: Called Control Called Co	No Change	Save	ACCESS ACCESS ACCESS ACCESS ACCESS <u>C</u> C	Access VLAN: 1		Dientvie
Storm Control Type: Select Port: Called Control Called Co	No Change Image: Statute Species Statute Species Automatic state No Change Automatic state Automatic state Enable Enable Automatic state Enable Selected Automatic state allable Selected Automatic state 7 9 11 13 15 17 19 3 12 14 16 18 20 18	Save	ACCESS ACCESS ACCESS ACCESS ACCESS <u>C</u> C	Access VLAN: 1 VLAN/IP Address Access VLAN: 1 Access VLAN: 1 Access VLAN: 1 Access VLAN: 1 Copper SFP V AN: 1 V AN: 1		Disabi

Editing Ports

Click the Edit icon of a port in the **Action** column of **Port List**. The port configuration information is displayed. After you edit the information, click **Save**. After "Configuration succeeded!" is displayed, the editing operation is complete. The port status, duplex mode, speed mode, port type, rate limit, and storm suppression can be configured. You can edit not only physical ports but also aggregation ports and member ports of an aggregation port.

Figure 27 Editing Ports

rt: Gi0/4								
Basic								
Status:		Enable	•	Interface:		Switch Port	•	
Duplex:		Auto	•	Link Type:		Access	•	
Speed:		Auto	-	Access VL	AN:	1		
Description	cina i					Range: 1-4094		
Advanced								
EEE:		Disable						
		To enable EEE function port must enable EEE f						
Rate Limit								
Ingress Ra	te Limit:							
		Range(64-1000000 Kbp varies with port types.)						
Egress Rat	e Limit:							
		Range(64-1000000 Kbp varies with port types.) Enable	os)(The value					
Storm Con	trol							
Type:		No Change	•					

↘ Aggregate Port

Figure 28 shows the **Aggregate Port** page.

Figure 28 Aggregate Port

Ruijie	Port Settings Aggregate Port Port Mirroring			२) 💜 Wizard	00
	Note: In order to provide increased bandwidth and redundancy, multiple physical ports (mem and the aggregate port load balances traffic across these physical ports.	iber ports) are combined into one lo	logical port (aggregate port). An ag	gregate port contains up to eigh	t member ports,
960-24GT4SFP-UP-H Detail >>	Global Configuration				
Dashboard	Src MAC and Dest MAC It is used to distribute traffic. Save Restore to Default				
Port	Aggregation Port List				
Diagnosis	Aggregate Port ID Interface IPv4 Address	Mask	Load-balance	Port Included	Action
More		No Data			
				Total 0 iten	

• Adding Aggregation Ports

Click Add. The Add page is displayed. Enter the aggregation port number, select the port type, traffic balance algorithm, and member ports, and click **Save**. After "Add operation succeeded!" is displayed, an aggregation port is successfully added. The successfully added aggregation port is displayed in **Aggregation Port List**.

Figure 29 Add

Total 2 items < 🚺 🗦

Add						×	r 1
Ago	gregate Port ID:	Range: 1-	128	*			
Inte	erface:	Switc	h Port 🔿 Routed Po	ort			
Loa	ad-balance:	Src M	AC and Dest MA	.C ≖			
Sel	ect Port:						
	Available Unar		AG Port		5 Cot	oper SFP	
	Note: Click the left mou	se button to selec	t multiple ports.		All Ir	nvert Cancel	
igure 30	Aggregation Port L	ist	Save	Cancel			
Aggreg	Delete						
	Aggregate Port ID	Interface	IPv4 Address	Mask	Load-balance	Port Included	Action
	1	Switch Port			Src MAC and Dest MAC	Gi0/19-20	<i>î</i> Ü
	2	Switch Port			Src MAC and Dest MAC	Gi0/23-24	<i>î</i> Ш

• Editing Aggregation Ports

Click the edit icon of a port in the **Action** column of **Aggregation Port List**. The **Edit Aggregate** page is displayed. Modify the port type, traffic balance algorithm, or member port, and click **Save**. After "Edit operation succeeded!" is displayed, an aggregation port is successfully edited.

Figure 31 Edit Aggregate

 \times

Edit Aggreate

	1 *	
	Range: 1-128	
nterface:	Switch Port Routed Port	
.oad-balance:	Src MAC and Dest MAC -	
Select Port:		
🔁 Available 📃 Unava	ilable 💼 Selected 🖸 AG Port	Copper SFP
	7 9 11 13 15 17 19 21 23 <u>7 7 7 7 7 7 7 7 7 7 7 7 7</u>	
	3 1 1 1 2 1 1 8 10 12 14 16 18 20 22 24 25 26 27 28	
Note: Click the left means	button to select multiple ports.	All Invert Cancel

• Deleting Aggregation Ports

Click the delete icon of a port in the Action column of Aggregation Port List. The deletion confirmation dialog box is displayed. After you click **OK**, the aggregation port is deleted. The deleted aggregation port is no longer displayed in Aggregation Port List.

Batch Deleting Aggregation Ports

Select the aggregation ports to be deleted in **Aggregation Port List** and click **Delete**. The deletion confirmation dialog box is displayed. After you click **OK**, the aggregation ports are deleted. The deleted aggregation ports are no longer displayed in **Aggregation Port List**.

Ports with the ARP check function, anti-gateway ARP spoofing, or the MAC VLAN function enabled and ports monitored in port mirroring cannot be added to an aggregation port, and these ports are Unavailable on the panel. When you point to Unavailable of a port, a message "This port is enabled with..." is displayed indicating that these functions are enabled for the port and the port cannot be selected.

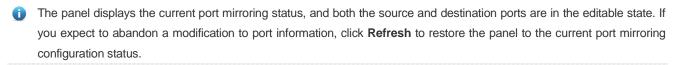
Dert Mirroring

Figure 32 shows the **Port Mirroring** page.

Figure 32 Port Mirroring

Ruíjie	Port Settings Aggregate Port Port Mirroring
	Note: Port minoring is the capability to send a copy of network packets seen on the source port to the destination port for analysis by a network analyzer. Traffic on multiple source ports can be minored to one single destination port. Tip: A source port cannot be a destination port.
	Port Mirroring:
S-S1960-24GT4SFP-UP-H	Source Port: (You can select multiple ports. However, the device performance may be influenced.)
	Copper SFP
🛆 Dashboard	1 3 5 7 9 11 13 15 17 19 21 23
Port	Image: Constraint of the state of
S VLAN	Note: Click the left mouse button to select multiple ports. All Invert Cancel
2 Diagnosis	Destination Port: (Only one port can be selected.)
문 More	CAvailable 💼 Unavailable 💼 Selected ①AG Port Copper
	1 3 5 7 9 11 13 15 17 19 21 23 <u> 立 立 立 立 立 立 立 立 立 立 立 立 立 立 立 立 立 立 </u>
	Cancel
	Save Refresh

Only one mirrored port can be set on the eWeb. Enable **Port Mirroring**, specify **Source Port** and **Destination Port**, and click **Save**. Port mirroring is successfully configured after "Save operation succeeded!" is displayed.



A member port of an aggregation port cannot function as a source or destination port, and the source and destination ports cannot be the same port.

1.3.7 VLAN

Figure 33 shows the **VLAN** page.

Figure 33 VLAN

VLAN ID	VLAN Name	IPv4 Address	IPv4 Mask	IPv6 Address/Mask	Port	Action
1	VLAN0001	172.17.207.69	255.255.255.192		Gi0/1-18,Gi0/21- 22,Gi0/25-28,Ag1-2	Ĩ
100	VLAN0100					<i>î</i> 🔟
200	VLAN0200					<i>î</i> 🔟
300	VLAN0300					<i>î</i> 🔟
					Total 4 items	3 < 1

Adding VLANs

Click Add. The Add page is displayed. Specify VLAN ID and other information (optional) and click Save. After "Add operation succeeded!" is displayed, the added VLAN is displayed in VLAN List. If the selected port is an access port on the switch, the access VLAN of the port is changed to the configured VLAN. If the selected port is a trunk port on the switch, the configured VLAN is added to Allowed VLAN.

Figure 34 Add

VLAN ID:	*	
	Range: 1-4094	
VLAN Name:		
IPv4:	None	
IPv6:	None	
Select Port:		
Select Port:		
Available	Unavailable 🚍 Selected 517 AG Port 57 Trunk F	Port Copper SF
		Port Copper SF
Available	- <u> </u>	Port Copper SF
Available	- <u> </u>	
Available	5 7 9 11 13 15 17 19 21 23 1 13 15 17 19 21 23 1 13 15 17 19 21 23 1 15 17 19 21 23 1 15 17 19 21 23 1 15 17 19 21 23 1 15 17 19 21 23 1 10 12 14 16 18 20 22 24	25 26 27 28

Editing VLANs

Click the edit icon of a VLAN in the Action column of VLAN List. The VLAN information is displayed. Edit the information, and click Save. After "Edit operation succeeded!" is displayed, the editing operation is complete. Information of the VLAN in VLAN List is updated.

- Deleting VLANs
- 1. Select multiple records in VLAN List and click Delete to batch delete the data records.

2. Click the edit icon of a VLAN in the **Action** column of **VLAN List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

VLAN1 is the default management VLAN. It can only be modified and cannot be deleted. When modifying the IP address of VLAN1, ensure that the new IP address is reachable. After the modification is successful, the login page is displayed and you need to log in to the eWeb again. If switching to the login page fails and a message indicating that the web page cannot be found is displayed, the specified IP address may be unreachable. Check the network connection.

1.3.8 Diagnosis

The Diagnosis page consists of three parts: Ping, Traceroute, and Cable Detection.

N Ping

Figure 35 shows the **Ping** page.

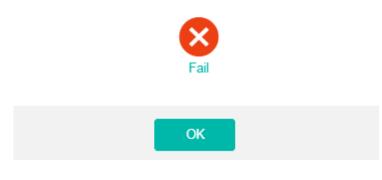
Figure 35 Ping

c IP or Interface:	VLAN 1-172.17.207.69 🔻
Dest IP or Domain Name:	
	IP example: 192.168.1.1. Domain name example: www.ruijienetworks.com
Timeout (s):	2
	Range: 1-10
Repeat Count:	5 Range: 1-100
	Ping

Specify Src IP or Interface, enter Dest IP or Domain Name and click Ping. The detection result is displayed in the text box. If no detection result is returned for more than 5 minutes, the Fail dialog box is displayed.

Figure 36 Fail

Fail



****Traceroute

Figure 37 shows the **Traceroute** page.

Figure 37 Traceroute

Configuration Guide

IP example: 192.168.1.1. Domain name example: www.ruljienetworks.com	Ping Traceroute	Cable Detection		
imeout (s): Range: 1-10	Dest IP or Domain Name:		•	
Range: 1-10		name example:		
	Timeout (s):	3		
Traceroute		Range: 1-10		
		Traceroute		

Specify **Dest IP or Domain Name** and other information and click **Traceroute**. The detection result is displayed in the text box later. If no detection result is returned for more than 5 minutes, the **Fail** dialog box same as that in Figure 36 is displayed.

**** Cable Detection

Figure 38 shows the **Cable Detection** page.

Figure 38 Cable Detection

Ping	Traceroute	Cable Detection		
Note: On	ly A and B twisted-pairs	will be detected by the 100M port. The	e length deviation is less th	nan 10 meters.
Select Po	ort:			
∑] Av	ailable 📃 Unavailable	Selected 1 AG Port		Copper SFP
<u>Av</u>	ailable 🛄 Unavailable			Copper SFP
<u>Av</u>		11 13 15 17 19 21 23 11 13 15 17 19 21 23 11 13 15 17 19 21 23 11 12 12 12 12 12 12 11 13 15 17 19 21 23 11 12 12 12 12 12 12 11 13 15 17 19 21 23 12 13 15 17 19 21 23 13 15 12 12 12 12 12 13 15 15 12 12 12 12 14 15 15 17 19 12 12 15 15 15 15 15 12 12	25 26 27 28	Copper SFP

Select an available port on the panel and click **Detect**. After the detection confirmation dialog box is displayed, click **OK**. The detection result is displayed in the table below **Detect** later.

Figure 39 Cable Detection Result

Ping Traceroute Cable Detection		
Note: Only A and B twisted-pairs will be detected by the 100M port	. The length deviation is less th	an 10 meters.
Select Port:		
Available Image: Non-Walk Image: Selected Image: AG Port 1 3 5 7 9 11 13 15 17 19 21 2 Image: Image		Cancel
Port: (A / B / C / D represent four cable pairs)	State	Meters
Gi0/20:A	Open	0
Gi0/20:B	Open	0
Gi0/20:C	Open	0
Gi0/20:D	Open	0
		Total 4 items 🤇 🚹 🔊

1.3.9 Network Settings

The first-level menu **More** includes three second-level menus: **Network Settings**, **Security Settings**, and **System Settings**. This section mainly introduces **Network Settings**.

1.3.9.1 MAC Address

The MAC Address page consists of two parts: Static Address Settings and Filtering Address Settings.

Static Address Settings

Figure 40 shows the **Static Address Settings** page.

Figure 40 Static Address Settings

/ Network Settings / MAC Address			Q √ Wizard Ø ⑦
Static Address Settings Fi	Itering Address Settings		
	he MAC address inside the data frame. If you configur prwards it to the specified port. With 802.1X authentica		ually, after you add a static address, the switch that receives the on exemption by binding MAC address with port.
Add Delete			
Port	MAC Address	VLAN ID	Action
Gi0/25	0000.0000.0001	10	匝

Adding Static Addresses

Click Add. The Add page is displayed. Specify MAC Address, VLAN ID, and Port and click Save to set a static address. After "Add operation succeeded!" is displayed, the newly added address is displayed in the static address list.

Figure 41 Add

Add			>
MAC Address:		ź	
	Format: 4422.6622.8866		
VLAN ID:		*	
	Range: 1-4094		
Select Port:			
🔄 Available 📑 Unavai	able 📃 Selected 🚹 AG Port		Copper SFP
	10 11 12		
			Cancel
	_		
	Save	Cancel	

• Deleting Static Addresses

1. Click the delete icon of a static address in the **Action** column of the MAC address list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted static address is no longer displayed in the MAC address list.

2. Select multiple records in the MAC address list and click **Delete** to batch delete the data records.

Setting Address Settings

Figure 42 shows the Filtering Address Settings page.

Figure 42 Filtering Address Settings

Configuration Guide

Static Address Settings Filtering	Address Settings	
Static Address Settings	Address Settings	
	ddress inside the data frame. If a switch receives a packet with th g a filter address the same as the MAC address of ARP packets.	he source/destination MAC address which is configured as a filter address, it discards the
packet. Tou can prevent the Americation by configurin	y a חונפי מטטיפט חופ אמרופ מצינויפ אווירט מטטיפט טו ארדי אמטיפט.	
Add Delete		
MAC Address	VLAN ID	Action
0000.0000.0006	100	<i>i</i>

Adding Filtering Addresses

Click Add. The Add page is displayed. Specify MAC Address and VLAN ID and click OK to set a filtering address. After "Add operation succeeded!" is displayed, the filtering address is displayed in the filtering address list.

Figure 43 Add

*	
Format: 4422.6622.8866	
* Range: 1-4094	
	Format: 4422.6622.8866

Editing Filtering Addresses

Click the edit icon of a filtering address in the **Action** column of the filtering address list. The filtering address information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting Filtering Addresses

1. Click the delete icon of a filtering address in the **Action** column of the filtering address list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted filtering address is no longer displayed in the filtering address list.

2. Select multiple records in the filtering address list and click **Delete** to batch delete the data records.

1.3.9.2 Routing

The Routing page enables you to manage routes.

Figure 44 shows the Routing page.

Figure 44 Routing

ork Settings / Routing		vill take effect when the host rou	ite fails. The backup route	with a smaller number has a l	۹)	√ Wizard 🕅 🧐 🤇
 ic Route Add Defa]				
Dest Subnet	Submask 255.255.255.255	Next Hop Address	Egress Port	Routing Primary Route	Type Static Route	Action

Adding Static Routes

Click Add Static Route. The Add Static Route page is displayed. Specify mandatory parameters IP Type, Dest Subnet, Submask, and Next Hop Address, and click Save. After "Add operation succeeded!" is displayed, the added route is displayed in Route List.

Figure 45 Add Static Route

 \times

Add Static Route

Dest Subnet:		*
Submask:		*
Egress Port:	Please select egress Port	
Next Hop Address:		*
Routing:	Primary Route -	

Editing Routes

Click the edit icon of a route in the **Action** column of the route list. The route information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting Routes

1. Select multiple records in the route list and click **Delete** to batch delete the data records.

2. Click the delete icon of a route in the **Action** column of the route list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted route is no longer displayed in the route list.

Add Default Route

Click Add Default Route. The Add Default Route page is displayed. Specify mandatory parameters IP Type and Next Hop Address, and click Save. After "Add operation succeeded!" is displayed, the added default route is displayed in the route list.

Routes are classified into active and standby routes. When a primary route becomes invalid, a backup route takes over services. Backup routes are selected based on their priorities. The priority of backup route 1 is higher than that of backup route 2.

Figure 46 Add Default Route

 \times

Add Default Route

Egress Port:	Please select egress Port	•
Next Hop Address:		•
Routing:	Primary Route	•
Routing:	Primary Route	•

1.3.9.3 ARP Entry

Figure 47 ARP Entry

ynamic Bind	ling>>Static Binding Remove stat	ic Binding Manual Binding Delet	te Refresh	IP o
	IP	MAC	Туре	Action
	172.17.207.65	5869.6c62.9fa2	Dynamic Binding	Dynamic Binding>>Static Binding
	172.17.207.69	5869.6cc8.f671	Local ARP Entry	Dynamic Binding>>Static Binding

- Dynamic Binding>>Static Binding
- 1. Select multiple dynamic data records in the ARP entry list and batch set them as static binding records.

2. Click **Dynamic Binding>>Static Binding** in the **Action** column of the ARP entry list. After "Operation succeeded!" is displayed, static binding is successful.

- Remove Static Binding
- 1. Select multiple static binding data records in the ARP entry list and click Remove static Binding.

2. Click **Remove static Binding** in the **Action** column of the ARP entry list. After "Operation succeeded!" is displayed, static binding is removed.

Manual Binding

Click Manual Binding. The Manual Binding page is displayed. Specify mandatory parameters IP and MAC address, and click Save. After "Operation succeeded!" is displayed, the manual binding record is displayed in the ARP entry list.

Figure 48 Manual Binding

Manual Binding	\times
IP:	*
MAC:	*
	Format: 4422.6622.8866 Save Cancel

• Delete

Select multiple dynamic or static binding data records in the ARP entry list to batch delete the data records.

Refresh

Click **Refresh** to update the current ARP entry list.

1.3.9.4 DHCP Server

The DHCP Server page consists of three parts: DHCP Settings, Static Address, and Client List.

DHCP Settings

Figure 49 shows the **DHCP Settings** page.

Figure 49 DHCP Settings

HCP Settings	Static Address Clie	nt List			
Note: After the DHCP Serv	vice is enabled, <u>the DHCP Relay</u> will t	e automatically enabled.			
онср:					
Excluded Address	Range				
		•	excluded address rang	ill not be allocated to the cli le is formatted as 1.1.1.1–1.1.1 spaces indicates that only the	1.30.
Save	+ Add More				
Address Pool List	ete				
Name	IP Address Range	Default Gateway	Lease Time	DNS	Action
			No Data		
					Total 0 item 🤇 🚹 🚿

Enabling DHCP

Enable the DHCP function. After "Enable operation succeeded!" is displayed, the global DHCP function is enabled.

• Configuring Excluded Addresses

Excluded addresses are not allocated to the clients.

You can add or delete excluded addresses in Excluded Address Range.

Adding DHCP Address Pools

In Address Pool List, click Add. The Add DHCP Address Pool page is displayed. Specify mandatory parameters Name, IP, Mask, Default Gateway, and Lease Time, and click Save. After "Add operation succeeded!" is displayed, the added DCHP address pool is displayed in Address Pool List.

Figure 50 Add DHCP Address Pool

 \times

Add DHCP Address Pool

Name:	*
IP:	*
Mask:	*
Default Gateway:	•
Lease Time:	8 hour(s) 👻 *
DNS:	
	+ Add More
	Save Cancel

• Editing DHCP Address Pools

Click the edit icon of an address pool in the Action column of Address Pool List. The DHCP address pool information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting DHCP Address Pools

1. Select multiple records in Address Pool List and click Delete to batch delete the data records.

2. Click the delete icon of an address pool in the Action column of Address Pool List. In the displayed deletion confirmation dialog box, click OK. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted DHCP address pool is no longer displayed in Address Pool List.

Static Address

Figure 51 shows the **Static Address** page.

Figure 51 Static Address

Client Name	Client IP	Netmask	Gateway	MAC	DNS Server	Action
1	2.2.2.2	255.255.255.0		0000.0001.0002		<i>î</i> Ш

Adding Static Addresses

Click Add. The Add page is displayed. Specify mandatory parameters Client Name, Client IP, Netmask, and MAC, and click Save. After "Add operation succeeded!" is displayed, the added static address is displayed in the static address list.

Figure 52 Add

*
*
*
Format: 4422.6622.8866

• Editing Static Addresses

Click the edit icon of a static address in the **Action** column of the static address list. The static address information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting Static Addresses
- 1. Select multiple records in the static address list and click **Delete** to batch delete the data records.

2. Click the delete icon of a static address in the **Action** column of the static address list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted static address is no longer displayed in the static address list.

U Client List

Figure 53 shows the Client List page.

Figure 53 Client List

Bind MAC	to Dynamic IP Delet	te			IP	Q
	IP	MAC Address	Lease Time	Allocation Type	Action	
			No Data			

• IP Address-based Searches

Enter an IP address in the search box and click the search icon to query the IP address.

• Bind MAC to Dynamic IP

Select multiple records in **Client List** and click **Bind MAC to Dynamic IP** to bind MAC addresses to dynamic IP addresses.

1.3.9.5 DHCP Relay

The DHCP Relay page consists of two parts: DHCPv4 Relay and DHCPv6 Relay.

DHCPv4 Relay

Figure 54 shows the **DCHPv4 Relay** page.

Figure 54 DCHPv4 Relay

utomatically enabled.	ind replies between clients and servers when they are not on the same p	vysical subnet. After the DHCP relay is enabled, the DHCP Server will be
HCP Relay:		
Global Configuration		
DHCPv4 Server Address:		
	+ Add More	
	Save	
nterface-based Configuration		
Add Delete		
Layer 3 Interface	DHCPv4 Server Address	Action

Enabling DHCP Relay

Enable the DHCP Relay function. After "Enable operation succeeded!" is displayed, the global DHCP function and DHCP Relay function are enabled.

Global Configuration

Multiple global DHCPv4 server addresses can be added. Content related to the DHCPv4 relay is not displayed when the DHCP Relay function is disabled and is displayed when DHCP Relay function is enabled.

Interface-based Configuration

1. Click Add. The Add page is displayed. Specify Layer 3 Interface and DHCPv4 Server Address, and click Save. After "Add operation succeeded!" is displayed, the added DCHPv4 server address is displayed in Interface-based Configuration List.

Figure 55 Add DCHPv4 Server Address

Layer 3 Interface:	Gi0/3 • *	
DHCPv4 Server Address:	*	
	+ Add More	

2. Click the edit icon of a DHCPv4 server address in the **Action** column of **Interface-based Configuration List**. The DHCPv4 server address information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

3. Select multiple records in Interface-based Configuration List and click Delete to batch delete the data records.

4. Click the delete icon of a DHCPv4 server address in the **Action** column of **Interface-based Configuration List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted DHCPv4 server address is no longer displayed in **Interface-based Configuration List**.

DHCPv6 Relay

Figure 56 shows the **DCHPv6 Relay** page.

Figure 56 DCHPv6 Relay

ote: DHCP relay age	nt is used to forward requests and replies be	atween clients and servers when they are not on the same phys	ical subnet.	
Add	Delete			
Layer 3	Interface	DHCPv6 Server Address	Action	
Vlan 1		12:154:58:a1:23:34:43:19	<i>i</i> 🔟	

Adding DHCPv6 Server Addresses

Click Add. The Add DHCPv6 Server Address page is displayed. Specify Layer 3 Interface and DHCPv6 Server Address, and click Save. After "Add operation succeeded!" is displayed, the added DHCPv6 server address is displayed in DHCPv6 Relay List.

Figure 57 Add DCHPv6 Server Address

Add DHCPv6 Server Address		\times
Layer 3 Interface:	Gi0/3 -	
DHCPv6 Server Address:	*	
	For example, 12:154:58:a1:23:34:43:19	
	+ Add More	
	Save	

Editing DHCPv6 Server Addresses

Click the edit icon of a DHCPv6 server address in the **Action** column of **DHCPv6 Relay List**. The DHCPv6 server address information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting DHCPv6 Server Addresses
- 1. Select multiple records in DHCPv6 Relay List and click Delete to batch delete the data records.

2. Click the delete icon of a DHCPv6 server address in the **Action** column of **DHCPv6 Relay List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted DHCPv6 server address is no longer displayed in **DHCPv6 Relay List**.

1.3.9.6 ACL & QoS

The ACL & QoS page consists of the four parts: Time Range, ACL, QoS Policy, and Port Policy.

**** Time Range

Figure 58 shows the **Time Range** page.

Figure 58 Time Range

Add	Delete			
_ Tim	ne Range Name	Time Period	Status	Action
1		Monday (2:00-3:00)	Inactive	<i>i</i>

• Adding Time Ranges

Click Add. The Add page is displayed. Specify Time Range Name and Time Period, and click Save. After "Add operation succeeded!" is displayed, the added time range is displayed in Time Range List.

Figure 59 Add

Add		\times
Time Range Name:	1 Range: 1-32 Bytes	
Time Period:	Monday × ▼ 02:00 ④ ~ 03:00 ④ *	
	+ Add More	
	Save	

• Editing Time Ranges

Click the edit icon of a time range in the Action column of **Time Range List**. The time range information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting Time Ranges
- 1. Select multiple records in Time Range List and click Delete to batch delete the data records.

2. Click the delete icon of a time range in the **Action** column of **Time Range List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted time range is no longer displayed in **Time Range List**.

ACL

Figure 60 shows the ACL page.

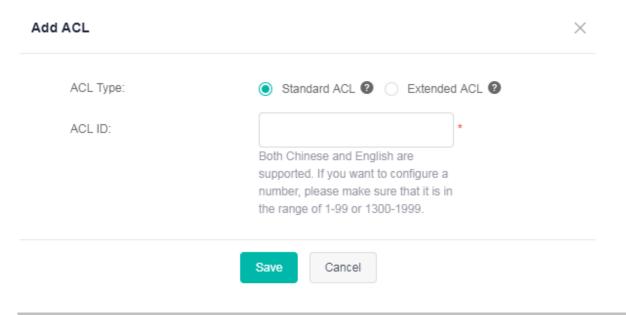
Figure 60 ACL

CL List 🕂									
ACL ID: 1									
1									
Rules									
le List	¥	_							
Add	Delete								
j I	NO. 5	Src IP / Wildcard	SrcPort	Access Control	Protocol	Dest IP / Wildcard	Dest port	Active Time	Action

Adding ACLs

Click the + icon on the right of ACL List. The Add ACL page is displayed. Specify ACL Type and ACL ID, and click Save. After "Add operation succeeded!" is displayed, the added ACL is displayed in ACL List.

Figure 61 Add ACL



Deleting ACLs

Click the delete icon on the right of **ACL ID**. After the deletion confirmation dialog box is displayed, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

Adding ACL Rules

Click Add in Rule List. The Add Rule page is displayed. Specify ACL Control, Protocol, IP, and Active Time, and click Save. After "Add operation succeeded!" is displayed, the added ACL rule is displayed in Rule List.

Figure 62 Add Rule

ule (ACL ID: 2334, ACL Type:	extended AGL)	
ACL Control:	Permit Deny	
Protocol:	IP •	
Source IP Filter:	 Any IP(For all IP) Single IP Mask Configuration Wildcard 	
Destination IP Filter:	 Any IP(For all IP) Single IP Mask Configuration Wildcard 	
Active Time:	Select [Add Time Range]	

Editing ACL Rules

Click the edit icon of an ACL rule in the **Action** column of **Rule List**. The ACL rule information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting ACL Rules
- 1. Select multiple records in **Rule List** and click **Delete** to batch delete the data records.

2. Click the delete icon of an ACL rule in the **Action** column of **Rule List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted ACL rule is no longer displayed in **Rule List**.

QoS Policy

Figure 63 shows the **QoS Policy** page.

Figure 63 QoS Policy

S Policy List	+				
Name: 1 1 Rules					
le List					
Add (Delete ACL ID	Bandwidth (Kbps)	Burst Traffic (KBytes)	Bandwidth Violation Disposal	Action

Adding QoS Policies

Click the + icon on the right of **QoS Policy List**. The **Add Policy** page is displayed. Specify **Policy Name**, and click **Save**. After "Add operation succeeded!" is displayed, the added QoS policy is displayed in **QoS Policy List**.

Figure 64 Add Policy

Add Policy		\times
Policy Name:	Range: 1-31 Bytes	
	Cancel	

Deleting QoS Policies

Click the delete icon on the right of **Name** of an existing QoS policy. After the deletion confirmation dialog box is displayed, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

Adding QoS Rules

Click Add in Rule List. The Add QoS Rule page is displayed. Specify ACL ID, Bandwidth, Burst Traffic, and Bandwidth Violation Disposal, and click Save. After "Add operation succeeded!" is displayed, the added QoS rule is displayed in Rule List.

Figure 65 Add QoS Rule

Id QoS Rule (Policy Name: 1)		>
ACL ID:	1	
Bandwidth:	* Range: 64-33554432 Kbps	
Burst Traffic:	Range: 4-8192 KBytes	
Bandwidth Violation Disposal:	DropDSCP Priority:	
	Save	

Editing QoS Rules

Click the edit icon of a QoS rule in the **Action** column of **Rule List**. The QoS rule information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting QoS Rules

1. Select multiple records in Rule List and click Delete to batch delete the data records.

2. Click the delete icon of a QoS rule in the **Action** column of **Rule List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted QoS rule is no longer displayed in **Rule List**.

V Port Policy

Figure 66 shows the **Port Policy** page.

Figure 66 Port Policy

Note: The policy i		ingress and egress flows (ingress and egress flows	of one port must be in the same trust more	de but they can be configured with differe	nt policies).
Add	Delete				
	Port	ACL/QoS policy	Direction	Trust Mode	Action
	Gi0/25	[ACL] 1	in		<i>i</i> 🔟
	Gi0/26	[QoS] 1	Input	dscp	匝

Adding Port Policies

1. Click Add. The Add page is displayed. If ACL is selected for **Policy**, specify **Direction**, **Port** and **VLAN Interface** (optional), and click **Save**. After "Add operation succeeded!" is displayed, the added port policy is displayed in **Port Policy**.

Figure 67 Adding Port Policy Based ACL

Add		×
Policy:	ACL • 56 •	
Direction:	Input 💌	
Select Port:		
Available Unavailable 1 3 5 7 1 1 5 7 1 1 1 7 1 1 1 7 1 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 4 6 8 9 10		Copper SFP
Note: Click the left mouse butto	on to select multiple ports.	All Invert Cancel
VLAN Interface:	VLAN 1 VLAN 20 VLAN 100	
	Save Cancel	

2. Click Add. The Add page is displayed. If **QoS** is selected for **Policy**, specify **Direction**, **Trust Mode**, and **Port**, and click **Save**. After "Add operation succeeded!" is displayed, the added port policy is displayed in **Port Policy**.

Figure 68 Adding Port Policy Based QoS

Add			×
Policy:	QoS 🔻 632 💌		
Direction:	Input -		
Trust Mode:	Untrusted -		
Select Port:			
$ \begin{array}{c} \hline \\ & \\ \hline \\ \\ & \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ \\ & \\ \hline \\ \\ \hline \\ \\ \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \\ \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \hline \\ \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline \hline \\ \hline \\ \hline \hline \\ \hline $	3 D D 11 12		Copper SFP
Note: Click the left mouse but	n to select multiple ports.		All Invert Cancel
	Save	el	

Editing Port Policies

Only ACL-based port policies can be edited.

Click the edit icon of a port policy in the **Action** column of **Port Policy List**. The port policy information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

• Deleting Port Policies

1. Select multiple records in **Port Policy List** and click **Delete** to batch delete the data records.

2. Click the delete icon of a port policy in the **Action** column of **Port Policy List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted port policy is no longer displayed in **Port Policy**.

1.3.9.7 STP & RLDP

The STP & RLDP page consists of three parts: Global Configuration, STP Port Settings, and RLDP.

Global Configuration

Figure 69 Global Configuration

STP Mode:	MSTP	-		
MST Name:		MST Version:	0	
	Range: 1-32 Bytes		(Range: 0-65535; Default: 0)	
Advanced Settings	~			
Priority:	8	Hello Time:	2	
	(Range: 0-15; Default: 8)		(Range: 1-10s; Default: 2s)	
Aging Time:	20	Forward Delay:	15	
	(Range: 6-40s; Default: 20s)		(Range: 4-30s; Default: 15s)	
	Save			
T Settings		nable STP again after configuration iso as to	o ensure the stability and convergence of network topology.	
	ole STP before configuring an instance and e	name off again and companies, or as t		
	ole STP before configuring an instance and e			
Add Delete)		Priority	Action
Add Delete	IN STP before configuring an instance and e	VLAN Range	Priority	Action

You can configure global STP parameters. When **MSTP** is selected for **STP Mode**, you can perform MST settings.

Adding Instances

Click Add in MST Settings. The Add page is displayed.

Figure 70 Add

Add		\times
Instance Value:	Range: 1-64	
VLAN Range:	* Range: 1-4094; Example: 11, 22, 33-	
Priority:	44, 55 8 (Range: 0-15; Default: 8)	
	Save Cancel	

Specify Instance Value, VLAN Range, and Priority, and click Save. After "Add operation succeeded!" is displayed, the instance configuration information is displayed in Instance List.

Editing Instances

Click the edit icon of an instance in the **Action** column of **Instance List**. The instance information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting Instances

1. Select multiple records in **Instance List** and click **Delete** to batch delete the data records.

2. Click the delete icon of an instance in the **Action** column of **Instance List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

Instance 0 is the default instance and cannot be edited or deleted.

STP Port Settings

Figure 71 STP Port Settings

rt Settings						
Port & Status	Port Fast	BPDU Guard	Protection Mode	Connection Mode	Instance Cost Priority	Action
Gi0/24,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/23,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/20,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/19,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/28,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/27,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/26,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/25,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/22,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
Gi0/21,Down	Disabled	Disabled	Null	point-to-point	0 0 128	Ĩ
					Total 28 iter	ns < 123

Batch Configuration

Click Batch Configuration. The Batch Configuration page is displayed. Specify Protection Mode, Port Fast, BPDU Guard, Connection Mode, and Port Priority and select ports for batch configuration.

Figure 72 Batch Configuration

tection Mode:	Null	 Port Fast: 	Disabled	
DU Guard:	Up	 Connection Mod 	de: auto	,
t Priority:				
	[+ Add	1	
ect Port:				
Available	Unavailable 📄 Selected	AG Port	Copper SF	Р
	199999 20 199999 21	5 17 19 21 23 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	27 28	
Note: Click the left	i mouse button to select mult	iple ports.	All Invert Cano	el

• Editing Settings

Click the edit icon of an STP port in the **Action** column of **STP Port Settings**. The port information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

↘ RLDP

Figure 73 RLDP

Configuration Guide

TP RLDP				
Tips: 1. Enabling RLDP on the	on Protocol) enables you to detect link failure qu port can avoid broadcast storm caused by loops	. It is recommended to enable RLDP on the	port connected to the PC.	
	anal link detection requires the ports on both end	is of the link to be enabled with RLDP. It is n	ecommended to configure RLDP to monitor the link between	two switches.
LDP:				
Global Configuration				
Detection Interval	3			
	Range: 2-15s			
Detection Count:	2			
	Range: 2-10			
Errdisable Recover	(Range: 30-86400s; Default: 300)			
	Save			
RLDP Port Configurat	ion			
Batch Configuration	Delete			
	Port	Detection Type	Troubleshooting	Action
		No	Data	

1. Global Configuration

Enable the RLDP function. After "Enable operation succeeded!" is displayed, the global RLDP function is enabled. Disable the RLDP function. After "Disable operation succeeded!" is displayed, the global RLDP function is disabled.

When the RLDP function is enabled, edit **Detection Interval**, **Detection Count**, and **Errdisable Recovery**, and click **Save**. After "Save operation succeeded!" is displayed, the configuration is complete.

- 2. RLDP Port Configuration
- Batch Configuration

Click Batch Configuration. The Batch Configuration page is displayed. Specify Detection Mode, Troubleshooting, and Port, and click Save. After "Add operation succeeded!" is displayed, selected ports can be configured in batches, and the configuration information is displayed in RLDP Port Configuration.

Figure 74 Batch Configuration

Batch Configuration

h Configuration		
Detection Mode:	Unidirectional Link Detection -	
Troubleshooting:	Warning -	
Select Port:		
	navailable 🔄 Selected 🛐 AG Port 5 7 9 11 13 15 17 19 21 23	Copper SFP
	3 [2] [2] [2] [2] [2] [2] [2] [2] [2] [2]	
	ouse button to select multiple ports.	All Invert Cancel

3. Editing RLDP Port Settings

Click the edit icon of an RLDP port in the Action column of RLDP Port Configuration. The RLDP port information is displayed. After you edit the information, click Save. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Figure 75 RLDP Port List

Detection Mode:	Unidirectional Link Detection <	
Troubleshooting:	Warning	

4. **Deleting RLDP Port Settings**

1. Select multiple records in RLDP Port Configuration and click Delete to batch delete the data records.

2. Click the edit icon of an RLDP port in the Action column of RLDP Port Configuration. In the displayed deletion confirmation dialog box, click OK. After "Delete operation succeeded!" is displayed, the deletion is complete.

1.3.10 Security Settings

The first-level menu More includes three second-level menus: Network Settings, Security Settings, and System Settings.

This section mainly describes Security Settings.

1.3.10.1 NFPP

Basic Settings

Figure 76 Basic Settings

Basic Settings NFPP Log
Please select a guard function.
ARP-guard Enable ARP-guard, so as to prevent a large number of invalid ARP packets from attacking the device. ARP-guard List
IP-guard Enable IP-guard, so as to prevent hackers from scanning the entire network and consuming bandwidth. IP-guard List
ICMP-guard Enable ICMP-guard, so as to prevent a large number of invalid ICMP packets from consuming bandwidth and CPU resources. ICMP-guard List
DHCP-guard Enable DHCP-guard, so as to prevent malicious requests from exhausting DHCP pools and leaving legitimate users unable to access the Internet. DHCP-guard List
DHCPv6-guard Enable DHCPv6-guard, so as to prevent malicious requests from exhausting DHCPv6 pools and leaving legitimate users unable to access the Internet. DHCPv6-guard List
DD-guard Enable ND-guard, so as to prevent Neighbor Discovery packets from consuming bandwidth.
Save Restore to Default

Different guard functions can be enabled or disabled. When a guard function is disabled, the disablement confirmation dialog box is displayed. Click **OK** and **Save**. After "Save operation succeeded!" is displayed, the configuration is complete. To restore the default settings, click **Restore to Default**.

NFPP Log

Figure 77 NFPP Log

IP	MAC	Reason	Time
172.17.207.65	5869.6c62.9fa2	Scan was detected	2018-6-26 10:3:59

After NFPP guard functions are enabled and a device is attacked, the corresponding attack record is displayed in logs.

1.3.10.2 Port Protection

Figure 78 shows the **Port Protection** page.

Figure 78 Port Protection

er Politickel porti can not construite die with each other. The selected ports on th act Port		
Diversion and Conversion and Selected 🖽 AG Part		
99777 9 9 9 9 9		
Note: Click the left mouse button to select multiple ports.	As Invest Cancel	

Select a port on the panel and click **Save** to set a port as a protection port. After the confirmation dialog box is displayed, click **OK**. After "Save operation succeeded!" is displayed, the configuration is complete.

1.3.10.3 Port Security

Basic Settings

Figure 79 Basic Settings

		or the following three purposes, 1, to an interface to prevent the user of			
Add	Delete				
1	Port	Max Secure Address	Aging Time	Violation Management	Action
			No Data		

Adding Security Ports

Click Add, specify Max Secure Address, Aging Time, and Violation Management, select a port, and click Save. After "Add operation succeeded!" is displayed, the added port is displayed in the security port list.

Figure 80 Add

Max Secure Address:	128 *	
	(Range: 1-128; Default: 128)	
Aging Time:	0 *	
	(Range: 0-1440 mins; Default: 0)	
Violation Management:	Protection -	
Select Port:		
Available 📃 Unav		Copper SF
	7 9 11 13 15 17 19 21 23 같았다 다다다다	
	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.6 2.7 2.6 8 10 12 14 16 18 20 22 24 25 26 27 2.6	3
Note: Click the left mous	e button to select multiple ports.	All Invert Cano

• Editing Security Ports

Click the edit icon of a security port in the **Action** column of the security port list. The security port information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Deleting Security Ports

1. Select multiple records in the security port list and click **Delete** to batch delete the data records.

2. Click the delete icon of a security port in the **Action** column of the security port list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

Security Binding

Figure 81 Security Binding

inter Part Second	Ry in sheet to allow only the packed when	a searce MAC address is consistent with t	the section address to enter the particle.		
Add)	Delete				
<u>e</u> 1:	Port	IP	MAC Address	VLAN ID	Action
			No Data		

Adding Addresses

Click Add. The Add Address page is displayed. Specify IPv4/IPv6, MAC, and VLAN ID, select a port, and click Save. After "Add operation succeeded!" is displayed, the added address is displayed in the security binding address list.

Figure 82 Add Address

Add Address		×
IPv4/ IPv6:	*	
MAC:		
VLAN ID:	Format as 4422.6622.8866 Range: 1-4094	
Select Port:		
🖳 Available 💼 Unavailable	e 💼 Selected 🛐 AG Port 🔄 SFP	
	9 11 13 15 17 19 21 23 12 12 12 12 12 12 14 16 18 20 22 24 25 26 27 28	
	Cancel	
L	Save Cancel	

• Editing Security Binding Addresses

Click the edit icon of a security binding address in the **Action** column of the security binding address list. The binding information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

• Deleting Security Binding Addresses

1. Select multiple records in the security binding address list and click **Delete** to batch delete the data records.

2. Click the delete icon of a security binding address in the **Action** column of the security binding address list. In the displayed deletion confirmation dialog box, click **Save**. After "Delete operation succeeded!" is displayed, the deletion is complete.

1.3.10.4 IP Source Guard

The IP Source Guard page consists of two parts: Port Settings and User Binding.

IP Source Guard prevents users from setting IP addresses by themselves or changing the source IP address. Users need to obtain IP addresses in dynamic DHCP mode. Otherwise, network connection fails.

After the **IP Source Guard** function is enabled for a port, the port filters all non-DHCP IP packets. After the static IP address bound by the user is configured, the port allows IP packets from the statically bound IP address.

Nort Settings

Figure 83 Port Settings

C P Same	- Gaund in sparsed in card	analos with CHOP Shanping. Part	Canad IP Notice Guard takes all	ed on only the unitable part en	and with D-CP langung. Otherwi	te, IP Saurce Guard ribes ruit sa	e effect.
A85	Delete						
1							
	Port	Filter Type	Filter Status	IP Address	MAC Address	VLAN ID	Action
				No Data			

Adding Ports

Click Add. The Add Port page is displayed. Specify Filter Type, select a port, and click Save. After "Add operation succeeded!" is displayed, the added port is displayed in the IP source guard port list.

Figure 84 Add Port

Add Port			×
Filter Type:	IP •		
Select Port:			
Available 🔛 Unavailable	Selected 1 AG Port		Copper SFP
2 4 6 8 10 Note: Click the left mouse butto		25 26 27 28	All Invert Cancel
	Save	I	

Deleting Ports

1. Select multiple records in the IP source guard port list and click **Delete** to batch delete the data records.

2. Click the delete icon of a port in the **Action** column of the IP source guard port list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

User binding ports are also displayed in the IP source guard port list, but they cannot be edited or deleted.

User Binding

Figure 85 User Binding

et flue UP Singste	Guard-enabled puri Mere all mat-Di	HCF IF paciety. After configured with the state	IP address, the port shows specified IP parties	e to pant through.	
A00	Delete				
	MAC Address	IP Address	VLAN ID	Port	Action
			No Data		
					head term

• Adding User Bindings

Click Add. The Add page is displayed. Specify MAC Address, IP Address, and VLAN ID, select a port, and click Save. After "Add operation succeeded!" is displayed, the user binding port is displayed in the user binding port list and IP source guard port list.

Figure 86 Add

MAC Address:	*	
P Address:	Format: 4422.6622.8866	
/LAN ID:	•	
Gelect Port:	Range: 1-4094	
Available 📃 U	navailable 🚍 Selected ฎ AG Port	Copper SFP
	5 7 9 11 13 15 17 19 21 23 같았었다. 다다다다다 고도도도 도도도도도	
2 4		Cancel
	Save	

Editing User Bindings

Click the edit icon of a user binding port in the **Action** column of the user binding port list. The user binding information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

• Deleting User Bindings

1. Select multiple records in the user binding port list and click **Delete** to batch delete the data records.

2. Click the delete icon of a user binding port in the **Action** column of the user binding port list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

1.3.10.5 Anti ARP Spoofing

The Anti ARP Spoofing page consists of three parts: Anti-ARP-Spoofing, ARP Check, and DAI Settings.

Anti-ARP-Spoofing

Figure 87 Anti-ARP-Spoofing

nti-ARP-Spoofir	ng ARP Check DAI Settings		
	andy the part connected to the cleant to prevent AMP speeding.		
A00 D	elete		
	Filter Port	. (P	Action
		No Data	
			1014 D dem (C)

Adding Filtering Ports

Click Add. The Add Port page is displayed. Specify IP, select a port, and click Save. After "Add operation succeeded!" is displayed, the added port is displayed in the filtering port list.

IP:			*	
Select Port:				
- Available -		Valanted III AC Dart		
Available		Selected [1] AG Port		Copper s
	<u>ئىمە</u> ت			
		14 16 18 20 22 24	25 26 27 28	
Note: Click the le	ft mouse button to se	elect multiple ports.		All Invert Ca

Editing Filtering Ports

Click the edit icon of a port in the **Action** column of the filtering port list. The filtering port information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting Filtering Ports
- 1. Select multiple records in the filtering port list and click **Delete** to batch delete the data records.

2. Click the delete icon of a filtering port in the **Action** column of the filtering port list. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete.

ARP Check

Figure 88 ARP Check

er ARP Clerk is used to the all ARP packets on the legislar port and decard locality ARP	addeds. It cast effectively prevent IAOP Spinnling and improve releases stability	
act Port		
Available 🚆Unavailable 🚆 Belected 🏦 AO Port		
1217 1217 1217 1217 2225 125 125 125 127 225 155 125 125 125 125 125		
Note: Click the left mouse button to select multiple ports,	A fivet Cancel	

Select a port on the panel and click Save. After "Save operation succeeded!" is displayed, the ARP check function is enabled.

(i) The panel displays ports with the ARP check function enabled and the ports are in the editable state. If you expect to abandon a modification to port information, click **Display ARP Check Port** to restore the panel to the current ARP check configuration status.

A The ARP check function cannot be enabled for DHCP snooping trusted ports.

DAI Settings

Figure 89 DAI Settings

	o ngiy pachitis to discard localit AUP paciety.	
AI-enabled VLAN		
+Add (vian52 =) (vian56 =)		
 Packets received on the busined part only CDU important an valid HMP packets. 		
usted Port		
ect Port.		
A A A A A A A A A A A A A A A A A A A		
Asiste		

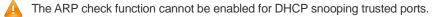
1. DAI-enabled VLANs

Click +Add, specify VLAN, and click ✓. After the confirmation dialog box is displayed, click OK. After "Add operation succeeded!" is displayed, the addition is complete.

2. Trusted Ports

Select a port on the panel and click Save. After "Save operation succeeded!" is displayed, the DAI trust function is enabled.

The panel displays ports with the DAI trusted port function enabled, and the ports are in the editable state. If you expect to abandon a modification to port information, click **Display Trusted Port** to restore the panel to the current DAI trusted port configuration status.



1.3.10.6 IGMP Snooping

Figure 90 shows the **IGMP Snooping** page.

Figure 90 IGMP Snooping

ver forholden PPL		R parts, causing store and consuming much ba	ndwidle, it's the tenanties is used to find out	on which port there is an IGBD subscriber and or	dy sould KintP traffic to the post, no as to
VP Snoop	oing:				
MP Profi	le List				
Add	Delete				
	IGMP Profile ID	Multicast Address	Policy Action	Application Port	Action
			No Data		

• Enabling/Disabling IGMP Snooping

Enable the IGMP Snooping function. After "Enable operation succeeded!" is displayed, **IGMP Profile List** is displayed.

Disable the IGMP Snooping function. After the confirmation dialog box is displayed, click **OK**. After "Disable operation succeeded!" is displayed, IGMP Snooping is disabled.

Adding IGMP Profiles

Click Add. The Add page is displayed. Specify IGMP Profile ID, Multicast Range, Policy Action, and other information (optional), and click Save. After "Add operation succeeded!" is displayed, the added IGMP profile is displayed in IGMP Profile List.

Figure 91 Add

IGMP Profile ID:	*	
	Range: 1-1024	
Multicast Range:	*-	*
	Range: 224.0.0.0-239.255.255.255	
Policy Action:	PERMIT O DENY	
Select Port:		
Available 📃 U	navailable 📃 Selected 🖸 AG Port	Copper 🔤 S
	5 7 9 11 13 15 17 19 21 23 ጉርጉርጉርጉርጉ ርጉርጉርጉርጉርጉርጉ	
	Image: Second	
Note: Click the left m	ouse button to select multiple ports.	All Invert Can

• Editing IGMP Profiles

Click the edit icon of an IGMP profile in the Action column of IGMP Profile List. The IGMP profile information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting IGMP Profiles
- 1. Select multiple records in IGMP Profile List and click Delete to batch delete the data records.

2. Click the delete icon of an IGMP profile in the Action column of IGMP Profile List. In the displayed deletion confirmation dialog box, click OK. After "Delete operation succeeded!" is displayed, the deletion is complete.

1.3.10.7 DHCP Snooping

Figure 92 shows the **DHCP Snooping** page.

Figure 92 DHCP Snooping

DHCP Snooping			
Note: DHCP tempore is used to The DHCP particle received on an activated part from exhibite cost. The The part connected to the DHCP serve in configural as a holded part periods.	the national of Browski, The D+CP response	paired is bewenned to the method post. The DHCP only particle a forwarded only if it is for	en 4 trabail
DHCP Snooping:			
💭 Available 🙍 Linavailable 🚆 Belected 竝 AG Port			
Note: Click the left mouse sution to select multiple ports:	At must Cancel		
Save Display Trusted Port			

Ports connected to the DHCP server need to be set as DHCP trusted ports. The DHCP server works improperly over non-trusted ports. Selected ports on the panel are DHCP trusted ports. You can select ports on the panel and click **Save**. After "Save operation succeeded!" is displayed, the configuration is complete.

The panel displays ports with the DHCP trusted port function enabled, and the ports are in the editable state. If you expect to abandon a modification to port information, click **Display Trusted Port** to restore the panel to the current DHCP trusted port configuration status.

1.3.11 System Settings

1.3.11.1 PoE

The **PoE** page consists of two parts: **PoE Time Range** and **PoE Settings**. The **PoE** page is available only for devices that support the PoE function.

Det Time Range

Figure 93 PoE Time Range

Add	Delete				
	Time Range Name	Time Period	Status	Action	
	1	Monday (2:00-3:00)	Inactive	<i>i</i> 🔟	

• Adding Time Ranges

Click Add. The Add page is displayed. Specify Time Range Name and Time Period, and click Save. After "Add operation succeeded!" is displayed, the added time range is displayed in Time Range List.

Figure 94 Add

Time Range Name:	1 *	
	Range: 1-32 Bytes	
Time Period:	Monday × ■ 02:00 ④ 03:00 ④ *	
	+ Add More	

• Editing Time Ranges

Click the edit icon of a time range in the **Action** column of **Time Range List**. The time range information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

- Deleting Time Ranges
- 1. Select multiple records in Time Range List and click Delete to batch delete the data records.

2. Click the delete icon of a time range in the Action column of Time Range List. In the displayed deletion confirmation dialog box, click OK. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted time range is no longer displayed in Time Range List.

Det Settings

The PoE Settings page consists of two parts: Global Configuration and Port Settings.

Global Configuration

Figure 95 Global Configuration

PoE Time Range	PoE Settings			
Global Configurati	ion			
Alarm Notification	Threshold:	 9996		
Not Interrupt PoE	During Reboot:			
Sav	ve 👔			

Set Alarm Notification Threshold and Not Interrupt PoE During Reboot, and click Save. After "Save operation succeeded!" is displayed, the configuration is complete.

Nort Settings

Figure 96 Port Settings

Batch Conf	guration											
Port	Control	Status	Priority	Max Power	Curr Power	Avg Power	Peak Power	Curr Current	Port Voltage	Trouble Cause	PD Class	Action
Gi0/1	enable	off	low	29	0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	1.
Gi0/2	enable	off	low		0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	L
Gi0/3	enable	off	low	а.	0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	1
Gi0/4	enable	off	kow	- 12	0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	i.
Gi0/5	enable	off	kow	3	0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	i.
Gi0/5	enable	off	law		0.0W	0.0W	0.0W	0mA	0.0V	None	N/A	i.
Gi0/7	enable	off	low	22	0.0W	0.0W	0.0W	Amū	0.0V	None	N/A	I.
Gi0/8	enable	off	low.	Э	0.0W	0.0W	0.0W	OmA	0.0V	None	N/A	L.

Batch Configuration

Click Batch Configuration. The Batch Configuration page is displayed. Select required ports, specify PoE Control, PoE Priority, Maximum Power, and Go Offline Time, and click Save. After "Save operation succeeded!" is displayed, the configuration is complete.

Figure 97 Batch Configuration

PoE Control:	No Change	•	
PoE Priority:	No Change	•	
laximum Power:	No Change	•	
		Range: 0.0-60.0 w	
Go Offline Time:	No Change	 Time Range Settings 	
Available 📃 Ui	available 📜 Selected 517 AG Port		Copper SFP
1 3	5 7 9 11 13 15 17 19 21 2020日 120日120日 3日日日 13日日13日13日		
	5 8 10 12 14 16 18 20 22	24 25 26 27 28	

Editing Ports

Click the edit icon of a port in the **Action** column of **Port List**. The port information is displayed. After you edit the information, click **Save**. After "Edit operation succeeded!" is displayed, the editing operation is complete.

Figure	98	PoE	Settings
--------	----	-----	----------

PoE Settings Gi0/1			\times
PoE Control:	Enable	*	
PoE Priority:	Low	Ŧ	
Maximum Power:			
	Range: 0.0-60.0 w		
Go Offline Time:	Never	Time Range Settings	
	Save	Cancel	

1.3.11.2 DNS

Figure 99 shows the **DNS** page.

Figure 99 DNS

	The IP address is formatted as 192.168.1.1. The IPv6 address is formatted as 12:154:58:a1:23:34:43:19.
+ Add More	

Enable the DNS function, specify **DNS Server**, and click **Save**. After "Save operation succeeded!" is displayed, the configuration is complete. A maximum of six DNS records can be configured.

1.3.11.3 Service

Five services, including Web Server (http), Web Server (https), SSH Server, Telnet Server, and SNMP-agent can be configured on the Service page.

Figure 100 shows the **Service** page.

Figure 100 Service

Service Settings:		
Web Server (http):	Port:	80
		(Range: 80, 1025-65535; Default: 80)
Web Server (https):	Port:	443
		(Range: 443, 1025-65535; Default: 443)
SSH Server:		
Telnet Server:		
SNMP-agent:	SNMP Version:	○ V2c
	Device Location:	Beijing
	User Name:	Beijing
	Encryption String:	*****
	Authentication Password:	*****
	Trap Password:	Beljing
		The Trap password should be the same as the User Name.
	Trap Recipient IPs:	1.1.1.1,2.2.2.3
		You can configure up to 10 Trap

Set the service statuses. In the **SNMP-agent** area, set mandatory parameters **SNMP Version**, **User Name** (v3), **SNMP Password** (v2), **Trap Password**, and **Trap Recipient IPs**, and click **Save**. After "Save operation succeeded!" is displayed, the configuration is complete.

1.3.11.4 System Log

The System Log page consists of two parts: Log Server Settings and Display System Log.

Log Server Settings

Figure 101 shows the Log Server Settings page.

Figure 101 Log Server Settings

g:			
al Configuration			
Server IP:		*	The IP address is formatted as
	+ Add More]	192.168.1.1.
Log Level:	6–Informational		
	Save		

1. Enable the Syslog function. After "Enable operation succeeded!" is displayed, the Syslog function is enabled. Disable the Syslog function. After "Disable operation succeeded!" is displayed, the Syslog function is disabled.

2. Set the system log server IP address and log level parameters, and click **Save**. After "Save operation succeeded!" is displayed, the setting is complete. The device sends logs to the corresponding server.

A maximum of five system log servers can be configured.

Display System Log

Figure 102 shows the **Display System Log** page.

Figure 102 Display System Log

Log Server Settings Display System Log

System Log	Export Log Refresh
Syslog logging: enabled	
Console logging: level debugging, 62 messages logged	
Monitor logging: level debugging, 0 messages logged	
Buffer logging: level debugging, 62 messages logged	
Standard format:false	
Timestamp debug messages: datetime	
Timestamp log messages: datetime	
Sequence-number log messages: disable	
Sysname log messages: disable	
Count log messages: disable	
Trap logging: level informational, 0 message lines logged,0 fail	
logging to 1.1.1.1	
Log Buffer (Total 131072 Bytes): have written 6279,	
*Jun 15 07:43:16: %LOCAL_DP-5-LC_PROB: Board information in this chassis has been collected.	
*Jun 15 07:43:16: %SWITCH-6-INSTALL: Install chassis XS-S1960-24GT4SFP-UP-H on switch 1	
*Jun 15 07:43:16: %DP-6-MASTER: Module in slot 0 has translated to master.	
*Jun 15 07:43:21: %DEV_MONITOR-5-CARD_POWER_ON: The power enough, card in slot 0 will be controlled to power on auto	omatically.
*Jun 15 07:43:21: %DP-6-POWER_OK: Power 1 ok.	
*Jun 15 07:43:21: %DP-6-FAN_OK: Fan 1/1 ok.	
*Jun 15 07:43:23: %DP-5-PROB: Board probing has completed.	

The text box displays current log information. You can click **Export Log** to export log information and click **Refresh** to refresh the log information.

1.3.11.5 Time & NTP

The Time & NTP page consists of two parts: System Time and NTP Settings.

System Time

Figure 103 shows the **System Time** page.

Figure 103 System Time

Configuration Guide

System Time	NTP Settings
System Time:	2018-06-20 16:18:12
Reset Time:	Manual Setting Select date
	Automatically synchronize with an Internet time server (Please make sure that you have configured the correct DNS Server).
Time Zone:	UTC+8 (Beijing, CCT)
	Save

The System Time page displays the current system time. You can manually set the system time.

Alternatively, you can select Automatically synchronize with an Internet time server and set Time Zone to set the time.

Select either mode and click **Save**. After "Save operation succeeded!" is displayed, the configuration is complete.

Click Configure DNS Server on the Tip page to switch to the DNS configuration page.

Figure 104 Tip

Tip × Save operation succeeded! To synchronize the time, please make sure that the DNS server has been configured properly.

Check DNS Server

NTP Settings

Figure 105 shows the **NTP Settings** page.

Figure 105 NTP Settings

Configuration Guide

	of for clock synchronization betw P on server, please enable it on (
2. If the encrypted time syn	chronization is enabled on serve	r, please enable NTF	on device first and set a password	for it.	
TP Authentication Setti	ng				
NTP Authentication:					
Key ID / Key String:	1	1	1	 (Key ID Range: 1-4294967295; Key String Range: 1-31 Bytes) 	
	2	1	3		
	[+ Add N	ore		
	Save				
TP Server List					
TP Server List					
Add Delete	Server Address	:	specified Src Interface	Key ID	Action
Add Delete NTP 5	Server Address e.google.com		specified Src Interface	Key ID	Action <i>是</i> Ш
Add Delete NTP 5		2			

• Adding NTP Authentication Entries

Enable the NTP Authentication function, specify **Key ID/Key String**, and click **Save**. After "Save operation succeeded!" is displayed, the specified **Key ID/Key String** is displayed in the **Key ID/Key String** area.

• Editing NTP Authentication Entries

Click **Add more** to add new NTP authentication configurations or directly modify existing configurations. After you edit the information, click **Save**. After "Save operation succeeded!" is displayed, the editing operation is successful.

• Deleting NTP Authentication Entries

Select the delete icon behind **Key ID/Key String**, and click **Save**. After "Save operation succeeded!" is displayed, the deletion is successful. The deleted NTP authentication configuration is no longer displayed in the list.

Adding NTP Servers

Click Add. The Add NTP Server page is displayed. Specify NTP Server Address and Key ID (existed), and click Save. After "Add operation succeeded!" is displayed, the added NTP server is displayed in NTP Server List.

Figure 106 Add NTP Server

d NTP Server		×
NTP Server Address:	*	
	IP example: 192.168.1.1. Domain name example: www.ruijienetworks.com	
Key ID:		
Specified Src Interface:		
	None	
	O VLAN	
	 Interface 	

Editing NTP Servers

Click the edit icon of an NTP server in the Action column of NTP Server List. The NTP server information is displayed. After you edit the information, click Save. After "Edit operation succeeded!" is displayed, the editing operation is complete.

• Deleting Time Ranges

1. Select multiple records in NTP Server List and click Delete to batch delete the data records.

2. Click the delete icon of an NTP server in the **Action** column of **NTP Server List**. In the displayed deletion confirmation dialog box, click **OK**. After "Delete operation succeeded!" is displayed, the deletion is complete. The deleted NTP server is no longer displayed in **NTP Server List**.

1.3.11.6 System Restart

Figure 107 Restart

Restart

Note: Click 'Restart' to restart the device. The page will be refreshed after restart. Please wait...

Restart			

Click **Restart**. A restart confirmation dialog box is displayed. After you click **OK**, the device restarts. The restart process takes a few minutes. Please wait. The login page will be displayed after the device is restarted.

1.3.11.7 Restore to Default

- 1. Click Export Current Configuration in Note to export current configurations.
- 2. Click Restore to Default to clear the configurations and restore the factory settings.

Figure 108 shows the **Restore to Default** page.

Figure 108 Restore to Default

Restore to Default	
Note: After the device is reset to the factory default settings, all configurations will be removed. Please Export Current Configuration before resetting the device.	
Restore to Default	

1.3.11.8 Backup

Backup

- 1. Click **Export** to export the current configurations.
- 2. Click **Refresh** to refresh the current configurations.

Figure 109 shows the **Backup** page.

Figure 109 Backup

Backup Restore

urrent Configuration	Export	Refresh
Building configuration		
Current configuration: 3067 bytes		
version S19_RGOS 11.4(1)B12P17, Release(05181514)		
hostname S2910-24GT4SFP-UP-H		
1		
mac-address-table filtering 0000.0000.0006 vlan 100		
mac-address-table static 0000.0000.0002 vlan 24 interface GigabitEthernet 0/27		
no spanning-tree		
!		
username admin privilege 15 password admin		
username admin login mode ssh		
username admin login mode telnet		
cwmp		
acs url http://cloudtest.ruijienetworks.com/service/tr069servlet		
cpe inform interval 180		
timer cpe-timeout 90		
service dhcp		

• Restore

After the configurations are imported, the device needs to be restarted for the configurations to take effect.

Click **file** and select the **config.txt** file. Click **Import** to import the configurations. After a restart confirmation dialog box is displayed, click **OK** to restart the device. After the device is restarted, the login page will be displayed.

Figure 110 shows the **Restore** page.

Figure 110 Restore

Backup	Restore	
Note: Please		uration, please restart the device on this page. Otherwise, the configuration will not take effect.
	File Name:	file Import

1.3.11.9 System Upgrade

The **System Upgrade** page consists of two parts: main program upgrade and Web package online upgrade.

Figure 111 shows the System Upgrade page.

Figure 111 System Upgrade

System Upgrade			
Note: Please download the corresponding	software version from the official website , and	d then upgrade the device with the following tips.	
	sion (main program or Web package) matches the	te device model. start the device until an upgrade succeeded message is displayed.	
2. The page may have no response	during upgrade. Please do not power on or rest	san ne bevice unui an upgrade succeeded message is displayed.	
	File Name:	file Upgrade Cancel	
			1

Main program upgrade

Click **file**, select a locally saved bin file, and click **Upgrade** to upgrade the main program. After the main program is successfully upgraded, the login page is displayed.

Figure 112 Successful Main Program Upgrade





2. Web package online upgrade

Click **file**, select a locally saved UPD file, and click **Upgrade** to upgrade the web package. After the web package is successfully upgraded, refresh the page for the new eWeb system to take effect.

Figure 113 Successful Web Package Upgrade

Please download the corresponding software version from the official website, and then upgrade the device with the following tips. 1. Make sure that the software version (main program or Web package) matches the device model. 2. The page may have no response during upgrade. Please do not power off or restart the device until an upgrade succeeded message is displayed.	
u ny page may isira na tanàna aming apanana i name ao isira panas ana ana ana ana ana ana ana ana ana	
File Name: file Upgrade Cancel	
•	