

Ruijie RG-CS86 Series Switches CS86_RGOS 12.6(2)B0103

Web-based Configuration Guide

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Preface

Intended Audience

This document is intended for:

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

Technical Support

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

Conventions

1. Conversions

Convention	Description
Bold font	Commands, command options, and keywords are in bold font.
Italic font	Arguments for which you supply values are in <i>italic</i> font.
[]	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.
&<1-n>	The argument before the sign (&) can be input for consecutive 1- n times.
//	Double slashes at the beginning of a line of code indicate a comment line.

2. Signs

The signs used in this document are described as follows:

Warning

An alert that calls attention to important rules and information that if not understood or followed can result in data loss or equipment damage.

A Caution

An alert that calls attention to essential information that if not understood or followed can result in function failure or performance degradation.

1 Note

An alert that contains additional or supplementary information that if not understood or followed will not lead to serious consequences.

Specification

An alert that contains a description of product or version support.

3. Note

The manual offers configuration information (including model, port type and command line interface) for indicative purpose only. In case of any discrepancy or inconsistency between the manual and the actual version, the actual version prevails.

1 RG-INC-EMB User Guide

1.1 Overview

This document describes how to use the eWeb management system. You can use the eWeb management system to configure common settings for switches.

You can access the eWeb management system through a browser (such as Google Chrome) to manage switches.

Note

This document only applies to the eWeb management system of the CS86 series, and is compatible with the RG-INC-EMB_1.22 version.

1.2 Typical Applications

Typical Application	Description
Managing Switches Through	After switches are properly configured, you can access the eWeb
the eWeb Management	management system through a browser to manage these switches.
System	

1.2.1 Managing Switches Through the eWeb Management System

Configuration Environment Requirements

Client requirements:

- 1. Client: A client refers to a PC or a mobile terminal such as a laptop. A network administrator can log in to the eWeb graphical user interface (GUI) of a switch from the client's browser to manage switches.
- 2. Browser: Google Chrome is recommended. Exceptions such as garbled characters or formatting errors may occur if an unsupported browser is used. If an exception occurs due to the use of an old version of Google Chrome, you are advised to upgrade it to the latest version.
- 3. Resolution: You are advised to set the resolution to 1600 x 900 or 1920 x 1080. If other resolutions are used, font and formatting issues may occur.

1.3 eWeb Management System

1.3.1 Logging In

Enter the switch IP address in your browser's address bar. Make sure that the IP address is reachable. The login page is displayed.

Ruffie INC	
	English 🗸
	Log In
	Piesse enter the username.
- 34 24	Please enter the password.
	Log In
Rulje Networks Cu., Ltd. © 2022 #0289688954955495 (2004) Sectore 2023 #0289688954955495 (2004) Sectore 2024 Recommended browser: Dougle Chrome: Recommended treeser:	nical support phone number. 4008111000 subdum; 1440-900.

- 1. Enter the username and password and click **Log In**. The main interface of the eWeb management system is displayed.
- 2. If you cannot remember your username or password, click Forgot Password?
- 3. If you need customer service assistance, contact local technical support.
- 4. To prevent login through brute-force cracking, your account will be locked for 10 minutes after 5 failed attempts. You cannot log in during the locking period.

Ruffie INC	
	English ~
	L admin
	Log in
Ruije Networks Ca. 1.54. © 2022. 922/RBRSO-1695-076 Copyright @2021. Tech Recommended Investor: Oxigite Distance Recommended in	nical support plane number. 4003111000 subdar: 1446-900

🚺 Note

To use the eWeb management system, ensure that the rg-web component has been installed on the switch and the web service has been enabled (if the web service is not enabled, run the enable service web-server command in config mode to enable it). Otherwise, the login page is not displayed. In most situations, the rgweb component is integrated in the rgos.bin system by default. However, if it is not installed, you can install it by installing the upgrade file mentioned in this release note of the eWeb management system.

1.3.2 Main Interface

The main interface of the eWeb management system is displayed.

Ruffe INC Home Configuration ~ 08	M × System ×	Quick Setup English 🗸 🛞 admin •
Ruijie Model:CS	Select Device:	
Management IP MAC Address	13.3 % Current CPU Usage	52.0 % Current Memory Usage
Software Version RG-INC-EMB_1.22_Build20230329	96	96
Hardware 1.00 Version	80 -	80 -
S/N G1QL50A000778 System Time 2023-04-10 14:41:32	40-	40 - 20 -
Start Time 2023-03-31 22:28:09	0 14:40:36 14:40:51 14:41:06 14:41:21	0
Up Since 9d16h13min17s		
Select Panel 🚹 Aggregate Port 💼 up 🗂 shutdown	VSL Port	Copper Port Doptical Port
$\begin{array}{c}1\\1\\2\\2\\4\\6\\8\\10\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\2\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\16\\18\\12\\12\\14\\14\\16\\18\\12\\12\\14\\14\\16\\18\\12\\14\\14\\16\\18\\12\\12\\14\\14\\16\\18\\12\\14\\14\\16\\18\\12\\12\\14\\14\\16\\18\\12\\14\\14\\11\\14\\16\\18\\14\\14\\18\\14\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\18\\$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Port Role: 🗊 TRUNK 🛎 Layer 3 Interface		

1. Header

This area displays the links to common functions, including Quick Setup, Change Password, and Exit. You can click these links to switch to specific configuration pages.

RUTTE INC Home Configuration ~	O&M \vee System \vee	Quick Setup English V (2) admin •
Ruijie Model:	Select Device:	admin Change Password
Management IP MAC Address Software Version	Current CPU Usage	52.2 % Current Memory Usage

- Change Password: After you click Change Password, the Change Password page is displayed. You can enter the old password and the new password to reset the password.
- Exit: When device management is complete, you can click Exit to exit the main interface and return to the login page.

2. Navigation Menu

This area displays main tabs of the eWeb management system.

Ruffe INC Home Configuration ^ O	&M ~ System ~	Quick Setup English \vee 🛞 admin •
Network Interfaced - Switches - F DHCP - IP Address Ass	Admin Vouters Log docking network management gmment	
Management IP MAC Address	Security and Stability Loop Guard	Current Memory Usage
Software Version		
WEB Version	100 -	100 -
Hardware Version 1.00	80 -	80 -
S/N G1RW21P000028	40 -	40 -
System Time 2021-11-15 24:47:07	20 -	20 -
Start Time 2021-11-12 03:40:34	000046:10 00046:20 00046:30 00046:40 00046:50 00047:00	0
Up Since 2d21h6min33s		
Select Panel 🗗 Aggregate Port 💼 up 🗂 shutdown 💽 :	3VL Interface	Copper Port Optical Interface
1 3 5 7 9 11 13 15 17 11 1 <td>21 23 25 27 29 31 33 35 37 39 41 43 45 47 1 <t< td=""><td>49 51 53 55 </td></t<></td>	21 23 25 27 29 31 33 35 37 39 41 43 45 47 1 <t< td=""><td>49 51 53 55 </td></t<>	49 51 53 55
Port Role: 🕐 TRUNK 🗷 Layer 3 Interface		

3. Main Operation Area

In this area, you can perform configurations on the eWeb management system. When you click the shortcut menu at the top of the page, the detailed configuration page is displayed.

1.3.3 Quick Setup

The switch is not configured when you log in to the eWeb management system for the first time. To simplify the configuration, you can use the **Quick Setup** wizard to configure common settings for the switch.

Note

You can click **Quick Setup** in the upper-right corner of the main interface of the eWeb management system to open the **Quick Setup** wizard.

1. Quick Setup

Layer 2 Mode

There are four steps in this mode.

(1) Device Management

Ruffe INC Home Configurate	Quick Setup	×	Quick Setup English \vee 🛞 admin •
0	O O O O O O O O O O O O O O O O O O O	 Security 	
Management IP MAC Address	Mode Matching O Layer 2 Mode C Layer 3 Mode		
Software Version	Management Interface O MGMTport as management Interface VLANport as management Interface		
Hardware Version 1.00	* Management Interface Mgmt 0 V		
S/N G1RW21P000028 System Time 2021-11-15 24:48:47	* (P Address 10.110.60.158		
Start Time 2021-11-12 03:40:34	* Subnet Mask 255 255 255 0		00;48:10 00;48:20 00;48:30 00;48:40
Up Since 2d21h8min13s	* Gabreaty 172.28.17.1		
Select Panel 🚹 Aggregate Port 🧰 up 🗂 shutdowr	* DNS Server 114.114.114.114		Copper Port D Optical Interface
	ResetTime O PCTime O Custom		
2 4 6 8 10 12 14 16 1	Time Zone: UTC+8 (Beijing Time, Chini \vee		
Port Role: TRUNK @ Layer 3 Interface	System Character Set: 0BK ~		
Temperature			Normal Abnormal
Card Slot V Card Slot Name Current Alarm Temp Temp	Ed	Next	Hardware S/N Status Version
Air Intake Ve 28 55	65 Pwr-1 NA N/A N/A M/A	Fan-1 M1EFAN II-	F 1.00 10000000014 🕒

(2) Client Interface

9	elect Device: 1/0 S6150-48VS8CQ-X	\sim	
ick Setup			
\checkmark	2	3	4
Device Management	Client Interface	Switch Interface	Security
Note: Terminals are PCs, printers, monitor	s, APs, etc.		
Client Interface			+ Add
Interface Number Interface Status	VLAN	Port Description	Action
TF0/1 V Enable	Range: [1-4094]		1 Delete
Exit			Previous Next

(3) Switch Interface

Quick Setup	ECELEVICE. No outportoodood	× ;		×
Device Management	Client Interface	3 Switch Interfa	ace	Security
Note: The interface to the downlink access s	witch.			
Switch Interface				+ Add
Interface Number Interface Status	Allowed VLAN	Native VLAN	Port Description	Action
TF0/1 V Enable	Format of VLAN Range: 3, 5-7	Range: [1-4094]		i Delete
Exit				Previous Next

(4) Security

lick Setup				
Device Management	Client I	nterface	Switch Interface	4 Security
Note: Enable the default route fu	nction, which will automatically o	enerate the default route	pointing to the routing port, and if there	are multiple routing ports, the priority will be
automatically configured accord	ng to the entry serial number.			
Default Route:	Enable			
SPT Loop Guard Mechanism:	Z Enable			
Optimized Configuration of Edge	Enable			
Port				
Enable RLDP Loop Guard for	Enable			
Client Interface				
Exit				Previous Finish

Layer 3 Mode

There are six steps in this mode.

The first four steps are the same as those in Layer 2 mode, so only the last two steps are described here.

(1) Router Interface (Layer 3 Mode)

ick Setup	S	elect Device: 1/0	I S6150-48VS8CQ-X	\checkmark			
Device Manage	ment Client	Interface	Switch Interface	Security	5 Router Interface	Downlink Port Configu	ration
Note:The routing p	ort is used when the sv	vitch is Laver 3 and ne	eds to interconnect with t	he unlink device (router o	r other Laver 3 device) for La	iver 3 and the interface mu	ist be
a Layer 3 interface	at this time.						+ Add
Interface Numb er	Interface Status	IPv4 Address	Mas	k	Port Description	Action	
TF0/1 ~	Enable	IP Address Form	mat: 192.168.1.1	5.255.255.0		💼 Delete	
					_		
Exit						Previous Next	1

(2) Downlink Port Configuration (Layer 3 Mode)

ick Setup	Select Device	til 1/0 30130-40¥300@-A ⊻			
o		⊘			6
Device Management	Client Interface	Switch Interface	Security	Router Interface	Downlink Port
					Configuration
Allowed VLAN	Gateway Status	IPv4 Address	Mask	Port Description	Action
Range: [1-4094]	Enable	IP Address Format: 192.168.1.1	255.255.255.0		💼 Delete
Exit				Prev	ious Finish

1.3.4 Home Page

After you log in to the eWeb management system, you will be automatically redirected to the home page. Or, you can click **Home** in the navigation menu to switch to the home page.

On this page, you can view the CPU, memory usage, system version, current system time, and other information of the switch. By analyzing the trend of Top 5 interface traffic, you can identify common network problems on this page and quickly resolve these problems.

1. Switch Overview

At the top of the home page, you can view the switch name, model, management IP address, MAC address, software version, hardware version, serial number, system time, startup time, and uptime. You can reset the system time on the **System Time** page by choosing **O&M** > **Basic Configuration** > **System Time**.

Ruijie Model:	
Management IP	10.110.57.210
MAC Address	0074.9ce4.3221
Software Versior	
WEB Version	RG-INC-EMB_1.22_Build20230329
Hardware Version	1.00
S/N	G1QL50A000778
System Time	2023-04-10 14:49:43
Start Time	2023-03-31 22:28:09
Up Since	9d16h21min28s

2. Interfaces

In the upper part of the home page is the interface panel where interface information is displayed. The panel shows the basic interface configurations, such as interface type, state, aggregated interface, and virtual switching link (SVL) interface.



3. CPU/Memory Usage

The CPU and memory usage of the switch is displayed at the top of the home page.

CPU: indicates the CPU usage of the switch service module.

Memory: indicates the memory usage of the switch service module.

1/0 1/0 1/0 1/0 1/0 1/0 1/0 1/0 1/0 1/0		52.1 %		
Current CPU Usage		Current Me	emory Usage	
96		%		
100		100		
80 -		80 -		
60 -		60 -		
40		40		
20	2	20		
201		20-		
0 14:50:11 14:50:26 14:50:41 14:50:56		0 14:50:11 14:50	26 14:50:41	14:50:56

4. Temperature/Power Module/Fan

The middle part of the home page displays the temperature, power module status, fan status of the switch at different positions.

Temperature			Norm	nal 🛑 Abnormal	Power Mo	dule		N	ormal 🔴	Abnormal	Fan			Normal	Abnormal
Card Slot	Name	Current Temp	Alarm Temp	Shutdown Temp	Power	Model	Hardware Version	S/N	Power (W)	Statı	Fan	Model	Hardware Version	S/N	Status
0	Air Intake Ve nt(air_inlet)	28	55	65	Pwr-1	N/A	N/A	N/A	N/A	•	Fan-1	M1EFAN II- F	1.00	100000000 0014	•
0	Air Exhaust V ent(air_outle	32	68	78	Pwr-2	0I II-F	13	131324	550	•	Fan-2	M1EFAN II- F	1.00	100000000 0014	•
-	0									—		M1EFAN II-		10000000	

In the **Temperature** panel, you can view the temperature of a card slot by selecting a card clot from the **Card Slot** drop-down list box.

5. Bandwidth



You can click **More** in the **Top 5 Interface Bandwidth Utilization** panel to query more details about interface bandwidth utilization.

< Bad	(Back 😋 Refrest) 🗶 Clear 🕅 Clear All											
	Name	Inbound Bandwidth Usage	Outbound Bandwidth Usage	Port bandwidth	Packet not complete/too large	CRC/FCS error packets	Number of Conflicts					
	Gi3/21	0.01%	0.01%	1000M	0/0	0/0	0					
	Gi3/23	0.01%	0.01%	1000M	0/0	0/0	0					
	Gi3/24	0.02%	0.01%	1000M	0/0	0/0	0					
Total	3					10/page ~	< 1 > Go to 1					

Back: returns to the home page.

Refresh: re-queries the interface bandwidth utilization.

Clear: deletes statistics about a selected interface, such as the number of error packets and conflicting count.

Clear All: deletes statistics about all interfaces, such as the number of error packets and conflicting count.

1.3.5 Configuration

1. Port Management

Port Configuration

Ruíjie INC	Home	Configuration	08M ~	System	~				Quick Setup	English \vee 🛞 admin
Port Mgt	Port	Network		Admin						
VLAN Management	Pc	Interfaced · Sw	Interfaced · Switches · Routers		Log docking network management					
Static Route	+		is a sharginiterit	Security	and Stability					
	Lay	er 3 Interface		Loop oddi'd						
		Port	Port Sta	te	IP Address		Subnet Mask	IPv6 Address	Port Description	Action
		VLAN1	Enable							🖉 Edit 📋 Delete
	Total 1								10/page ~ <	> Go to 1
	Lay	er 2 Interface	Please select line care	d. ~						
		Port	Port State		Port Type	Access VLA	N Native VLAN	Permit VLAN	Port Description	Action
		TF0/1	Enable		TRUNK		1	3		🖉 Edit 🗎 Details
		TF0/2	Enable		ACCESS	1				🖉 Edit 🗎 Details
		TF0/3	Enable		ACCESS	1				🖉 Edit 🗎 Details
		TF0/4	Enable		ACCESS	1				🖉 Edit 🗎 Details
		TF0/5	Enable		ACCESS	1				🖉 Edit 🗎 Details
		TF0/6	Enable		ACCESS	1				🖉 Edit 🗎 Details

• Configuring multiple ports

ort Mgt							
Port Settings Aggrega	ite Port	Configure Multiple Ports				×	
+ Configure Multiple Ports	+ Add S	Port State: Enable	~				
Layer 3 Interface ① Click <configure Multiple Ports VLAN1</configure 		Port Description: Please t	Enter		 Set configuration pa 	arameters in the	
		Port Mode: Access	Port ~)	Configure Multiple Ports window.		
Total 1		* Access VLAN Please f	Enter	Range: 1 - 4,094			
Layer 2 Interface Ple	ase select I	~ Adv	anced Settings				
Port	Po	Select Port:	_			_	
TF0/1	E	Select Panel 1 Aggregate Port	SVL Interface			Copper Port Optical Interface	
TF0/2	Er				25 27 29 31 33	35 37 39 41 43 45	
TF0/3	Er		2 L L L 2 14 16 18	20 22 24	26 28 30 32 34	36 38 40 42 44 46	
TF0/4	E	Port Role: TRUNK Select All Invert Clear		Tip:You can sele	ct multiple ports by holding down the	e left mouse button and dragging the mouse.	
TF0/5	Er			ок	ancel ③ Click <ok>. T the Layer 2 inter</ok>	he result will be displayed in face list.	
TF0/6	Er.	50	100200				

• Adding an SVI

	Add	SVI Interface		
Port Settings Age	gregate Port Port Mirrorin	② Set co	onfiguration parameter	rs in the Add SVI Interface window.
+ Configure Multiple P	+ Add SVI Interface	Port State:	Enable	~
Layer 3 Interface	① Click <add interface<="" svi="" td=""><td>Port Description:</td><td>Please Enter</td><td></td></add>	Port Description:	Please Enter	
Port	Port	* VLAN ID:	Plazas Enter	Panae: 1 4 094
VLAN1	Ena	YEARID.	Fiease ciner	Range. 1 - 4,034
Total 1		* IPv4 Address:	Please Enter	
Layer 2 Interface	Please select line card.	* Subnet Mask:	Please Enter	
Port	Port State			
TF0/1	Enable	IPv6 Address/Mask:	Please Enter	
TF0/2	Enable	③ C in th	lick <ok>. The result when the second terms of the second se</ok>	will be displayed OK Cancel
750/0	Carble	400500		

• Editing a Layer 3 interface

Port Mgt	端口:TF0/3 ② Set cor	nfiguration parameters in the displayed window	×		
Port Settings Aggregate	Port State:	Enable ~			
+ Configure Multiple Ports					
Layer 3 Interface	Port Description:	111			
Port	Port Mode:	Layer 3 Interface		Port Description	Action
TF0/3	Port Attribute:	Access Port		111	Z Edit 🗇 Delete
VLAN1		Trunk Port			(1) CIICK <edit> 2 Edit</edit>
Total 2	* IPv4 Address:	Layer 3 Interface		10/page ~ <	1 > Go to 1
Layer 2 Interface Pleas	* Subnet Mask:	255.255.255.0			
Port Port	IPv6 Address/Mask:	Please Enter	VLAN	Port Description	Action
TF0/1 Enal					🖉 Edit 🗎 Details
TF0/2 Enal		Grancel Settings (Click < OK>. If it is a 1 Cancel result in the Layer 3 interest of the content	ayer 3 interface list.		ess & Edit 🗎 Details
TF0/4 Enat		port, you can view the r	esult in th		l st. ℤ Edit 🗎 Details

• Deleting a Layer 3 interface

Port Mgt							
Port Settings Age	gregate Port Port Mirror	ring Rate Limit					
+ Configure Multiple Pe	orts + Add SVI Interface						
Layer 3 Interface							
Port	Port State	IP Address	Subne	t Mask	IPv6 Address	Port Description	Action
TF0/3	Enable	Error ② Click <ok> deleted from t</ok>	. The interfact	e will be 🗙		① Click <d 111</d 	elete> & Edit Tolete
VLAN1	Enable	Are you sure you want	to delete?				🖉 Edit 💼 Delete
Total 2			Ca	псе		10/page ~ < 1	> Go to 1
Layer 2 Interface	Please select line card.						
Port	Port State	Port Type	Access VLAN	Native VLAN	Permit VLAN	Port Description	Action

• Editing a Layer 2 interface

	TF0/3		Edit Layer 2 Interface			×	111	🖉 Edit 🗊 Delete
	VLAN1		② Set configuration p	arameters in the Edit La	ayer 2 Interface window.			🖉 Edit 🛅 Delete
т	otal 2		Port State:	Enable ~			10/page ~ < 1	> Go to 1
1	Layer 2 Interface	Pleas	Port Description:	Please Enter				
	Port	Port	Port Mode:	Trunk Port ^		VLAN	Port Description	Action
	TF0/1	Enat		Access Part	,			🖉 Edit 🗎 Details
	TF0/2	Enat	Port Attribute:	Trunk Port				🖉 Edit 🗎 Details
	TF0/4	Enat	* Native VLAN	Layer 3 Interface				🖉 Edit 🗎 Details
	TF0/5	Enat	* Allowed VLAN:	3	VLAN ID is 1 - 4,094.			🖉 Edit 🗎 Details
	TF0/6	Enat		V Advanced Settings				🖉 Edit 🗎 Details
	TF0/7	Enat		OK Cancel	③ Click <ok>. If it is a tr the result in the Layer 2 i interface. vou can view tl</ok>	unk or acc nterface L he result i		ew
	TF0/8	Enat	ole ACCE	ESS 1				🖉 Edit 🗎 Details

• A Layer 2 interface details

Layer 2 Interface	Pleas	端囗: TF0/2	×			
Port	Port			VLAN	Port Description	Action
TF0/1	Enat	Port State:Enable				🖉 Edit 🗎 Details
TF0/2	Enat	Set Rate:Auto-Negotiation				🖉 Edit 🗎 Details
TF0/4	Enat	Actual Rate:Unknown				🖉 Edit 🗎 Details
TF0/5	Enat	Set Operating Mode:Auto- Nerotiation				🖉 Edit 🗎 Details
TF0/6	Enat					🖉 Edit 🗎 Details
TF0/7	Enat	Actual Operating Mode:Unknown				🖉 Edit 🗎 Details
TF0/8	Enat	Port Attribute:Optical Interface				🖉 Edit 🗎 Details
TF0/9	Enat					🖉 Edit 🗎 Details
TF0/10	Enat					🖉 Edit 🗎 Details
TF0/11	Enat	OK				🖉 Edit 🗎 Details

Click Details. You can view detailed information about a selected port.

Port Aggregation

Note

To increase bandwidth or provide redundancy, multiple physical ports (member ports) can be combined into a single logical port (aggregated port). Each aggregated port can have up to 8 member ports. These member ports transmit network traffic based on traffic distribution rules.

• Saving configurations

Ruíjie INC	Home Configuration v O&M v System v Quick Setup English v (2) admin+							
Port Mgt	Port Mgt							
VLAN Management	Port Settings Aggregate Port Port Mirroring Rate Limit							
Static Route	Global Config							
	Note: To distribute network traffic based on the configured load balancing algorithm.							
② Click <save< td=""><td>Load Balancing Algorithm: Enhanced Balancing</td></save<>	Load Balancing Algorithm: Enhanced Balancing							
	e > Save Restore D Dest IP Address							
	Aggregate Port Se Enhanced Balancing Algorithm drop-down list box.							
	Note: To expand port bai to 8 member ports. These Src. & Dest I/A Address Src. & Dest MAC Address							
	Add Bulk Delete Src IP Address							
	Sic MAC Address Name Aggregate Port Number Enable LACP Port Type IP Address Subnet Mask Action							
	No Data							
	Total 0							

• Restoring default settings

Ruíjie INC	Home Configuration ~ O&M ~ System ~ Quick Setup English ~ @ admin ~							
Port Mgt	Port Mgt							
VLAN Management	Port Settings Aggregate Port Port Mirroring Rate Limit							
Static Route	Global Config							
	Note: To distribute network traffic based on the configured load balancing algorithm.							
	Load Balancing Algorithm: Enhanced Balancing V							
	Save Restore Defaults (1) Click < Restore Defaults > to restore the load balancing algorithm to Enhanced Balancing.							
	Aggregate Port Settings							
	Note: To expand port bandwidth or achieve bandwidth redundancy and backup, multiple physical ports (member ports) can be combined into a single logical port (aggregate port). Each aggregate port can have up to 8 member ports. These member ports transmit network traffic through the traffic distribution rule.							
	Add Bulk Delete							
	Name Aggregate Port Number Enable LACP Port Type IP Address Subnet Mask Action							
	No Data							
	Total 0 10/page ~ < 1 > Go to 1							

• Querying the aggregated port list

Ruíjie INC	Home Configuration V O&M V System V Quick Setup English V 🛞 admin *						
Port Mgt	Port Mgt						
VLAN Management	Port Settings Aggregate Port Port Mirroring Rate Limit Global Config						
	Note: To distribute network traffic based on the configured load balancing algorithm. Load Balancing Agorithm: Enhanced Balancing V						
	Sure Restore Defaults						
	Aggregate Port Settings						
	Note: To expand port bandwidth or achieve bandwidth redundancy and backup, multiple physical ports (member ports) can be combined into a single logical port (aggregate port). Each aggregate port can have up to 8 member ports. These member ports transmit network traffic through the traffic distribution rule.						
	Add Built Delete Aggregated port list						
	Name Aggregate Port Number Enable LACP Port Type IP Address Subnet Mask Action						
	No Data						
	Total 0 10/page - < 1 > Go to 1						
	Ruijie Networks Co., Ltd. © 2022 秘護网络股份有限公司 Copyright @2021, Technical support phone number: 4006111000						

• Adding an aggregated port

ort Mgt		
Port Settings	Add ② Set configuration parameters in the displayed window.	×
Global Conf	Aggregate Port Number: Please Enter Range: 1 - 128	
Note: To distribu	Interface Type: 2 Layer 3 Interface (Switching) C Layer 3 Interface (Routing)	
.oad Balancing Alg	Enable LACP: Ves O No	
Save	Add Port to the Aggregation Port	ice
Aggregate F Note: To expand member ports tr	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 1]
Add Bu Click <add></add>	Port Role: TRUNK Select All Invert Clear Tip:You can select multiple ports by holding down the left mouse button and dragging the mouse Add Cancel ③ Click < Add>. The result can be viewed in the Aggregate Port list.	se.

• Deleting multiple aggregated ports

Port Mgt		_
Port Settings Aggregate Port Port Mirroring Rate Limit		
Global Config		
Note: To distribute network traffic based on the configured load balancing algorithm.		
Load Balancing Algorithm: Enhanced Balancing V		
Save Restore Defaults Error (3) Click < OK> The selected aggregate		
Aggregate Port Settings		
Note: To expand port bandwidth or achieve bandwidth redundancy and backup, multiple physical ports (member ports) can be combined into a single logical port (aggregate port). Eac member ports transmit network traffic through the traffic distribution rule.	ch aggregate port can have up to	8 member ports. These
Add Bulk Delete>		
Name Aggregate Port Number Enable LACP Port Type IP Address	Subnet Mask	Action
Aggregate Port1 1 No Layer 2 Interface		🖉 Edit Delete
① Select multiple aggregated ports. Total 1	10/page v K	1 > Go to 1

• Editing an aggregated port

Port Mgt	Edit ×	
Port Settings	* Aggregate Port Number: 1 Range: 1 - 128	
Note: To distribu	Interface Type: O Layer 3 Interface (Switching) C Layer 3 Interface (Routing)	
Load Balancing Alg	Enable LACP: O Yes O No O Set configuration parameters in the displayed window.	
Save	Add Port to the Aggregation Port	
Aggregate F	1 5 7 9 1 15 17 19 21 23 25 27 29 31 33 35 37 99 41 43 45 1	
Note: To expand member ports tr		gate port can have up to 8 member ports. These
Add But	Port Role: © TRUNK Select All Invert Clear Tip.You can select multiple ports by holding down the left mouse button and dragging the mouse. Save Cancel (3) Click < Save>. The result can be can	hnet Mask Action
	be viewed in the aggregated port list. ggregate Port1 1 No Layer 2 Interface	① Click < Edit> 4. Edit Delete
Total 1		10/page ~ < 1 > Go to 1

• Deleting an aggregated port

Port Mgt	Port Mgt
VLAN Management	Port Settinos Apprende Port Port Mirrorino Rate Limit
Static Route	Global Config
	Note: To distribute network traffic based on the configured load balancing algorithm.
	Load Balancing Algorithm: Enhanced Balancing Y
	Save Restore Defaults Error X
	Are you sure you want to delete? 2 Click <ok>. The selected aggregated port is cancel cancel</ok>
	Note: To expand port bandwidth or achieve bandwidth redundancy and backup, multiple physical ports (member ports) call be combined into a single logical port (apgregate port). Each aggregate port can have up to 6 member ports. These member ports barenin network talk, through the traffic distribution hat:
	Add Buik Delete
	Name Aggregats Port Number Enable LACP Port Type IP Address Subnet Mask Action
	Apprepare Ports 1 No Layer 2 interface ① Click <delete> 4: Eor Deele</delete>
	Total 1 tūpage ~ < 1 > Go to 1

Port Mirroring

Port Mgt	Port Mgt							
/LAN Management	Port Settings Aggregate Port Port Mirroring Rate Limit							
Static Route	Port Mirroring							
	If Port Minoring feature is enabled, all packets on the source port will be copied and transmitted to the destination port. A switched port analyzer (SPA) is usually connected to the destination port to analyze packets on the source port. Multiple source ports can be mimored to one destination port.							
	Session ID 💠 Src. Port Dest. Port Monitored Packets Action							
	1 TF05 TF07 both & Edit Dekte							
	Ruijie Networks Co., Ltd. © 2022 轻趣词语配绘角网经3页 Copyright @2821, Technical support phone number: 4008111000							

• Creating port mirroring

Ruíjie INC	Home Configuration ~	O&M × System ×	Quick Setup Er
Port Mgt VLAN Management Static Route	Port Mgt Port Settings Aggre Port Mirroring	Create Create ② Enter the configuration parameters in the displayed window. * Session ID Presse Enter * Sec. Fort Cascer Part 1 Concerte Part 1 SVL Interface	X
	If Port Mirroring feature is Multiple source ports can b Create Port Mirroring Session ID ©	Mirroring 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38	 rze packets on the source port. 39 340 Action
		Select Al Invert Clear Tp: You can select multiple ports by helding down the left mouse button and dragging the Multiple source ports. Multiple source ports. Dest. Port Select Panel Aggregate Port SVL Interface Copper Port Oppical In Copper Port Oppical In	2. Edit Delete
		1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 1 1 1 1 15 17 19 21 23 25 27 29 31 33 35 37 1	39 3 3 1 40
		* Montered Packets Please Enter ③ Click <ok>. The result will be displayed in the list.</ok>	ancel

• Deleting multiple mirrored ports

rt Mgt				
Port Settings Aggregate Port	Port Mirroring Rate L	imit		
Port Mirroring				
If Port Mirroring feature is enabled, all Multiple source ports can be mirrored Create Port Mirroring	packets on the source port will be to one destination port.	copied and transmitted to the destination port. A switched po	irt analyzer (SPA) is usually connected t	o the destination port to analyze packets
Session ID 🗢	Src. Por	or	× Monitored Packets	Action
□ 1	TF0/5	Are you sure you want to delete these mirror ports?	both	🖉 Edit Dek
		Click <ok>. The selected mir ts are deleted from the list.</ok>		

• Editing a mirrored port

Ruíjie INC	Home Configur	Edit	 Set configuration 	parameters in the o	displayed window	×	Quick Setup English 🗠 🛞 admin •
Port Mgt	Port Mgt	Session ID	1 Range: 1-4		alopidyed window.		
VLAN Management	Port Settings	* Src. Port	Select Panel 1 Aggregate Port	SVL Interface	Copper Port Opti	cal Interface	
Static Route	Port Mirro						
	If Port Mirroring Multiple source			13 15 17 19 21 23	25 27 29 31 33 35	37 35	port to analyze packets on the source port.
	Create Port I		Select All Invert Clear				Action
	1	Authole course	spectral invertibles	Inpryou can select multiple ports by hold	ing down the left mouse button and draggin	g the mouse.	🖉 Edit Delete
		* Dest. Port	Select Panel Aggregate Port	3VL Interface	Copper Port Opti	cal Interface	
			1 3 5 7 9 11 1 9 1 1 2 4 6 8 10 12	13 15 17 19 21 23 	25 27 29 31 33 35	37 35	
		* Monitored Packets	All Packets ~				
				③ Click <ok>. The displayed in the list</ok>	result will be 💽 t.	Cancel	
			Ruille Networks Co. Ltd. C	2022 视捷网络股份有限公司 Copyright @	2021. Technical support phone number: 40		

• Deleting a mirrored port

Port Mgt	
Port Settings Aggregate Port Port Mirroring Rate Limit	
Port Mirroring	
If Port Mirroring feature is enabled, all packets on the source port will be copied and transmitted to the destination port. A switched port analyzer (SPA) is usually connected to the destination port to analyze takes on the source ports can be mirrored to one dostination of the analyzer (SPA) is usually connected to the destination port to analyze takes on the source ports can be mirror port of the destination port to analyze takes on the source port will be copied and transmitted to the destination port. A switched port analyzer (SPA) is usually connected to the destination port to analyze the destination port of the des	
Ruijie Networks Co., Ltd. © 2022 税提网结股份有限公司 Copyright @2021, Technical support phone number: 4008111000	

Rate Limiting

Port Mgt	Port Mgt
VLAN Management	Port Settings Angrenate Port Port Mirroring Rate Imit
Static Route	Rate Limit
	Configure Port Rate Limit Bulk Delete
	Port Inbound Rate Outbound Rate Action
	Total 0 10/page ~ < 1 > Go to 1
	Ruijie Networks Co., Ltd. © 2022 総趣阿伯股份有限公司 Copyright @2021, Technical support phone number: 4008111000

• Configuring port rate limiting

Port Mgt		
Port Settings Aggre 20 Set	nt × configuration parameters in the Configure Port Rate Limit window.	
Rate Limit Select Port	🚹 Select Panel 🚹 Aggregate Port 💼 up 💼 shutdown 争 SVL Interface 👘 Copper Port 🗔 Optical Interface	
Configure Port Rate Limit	1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 3	
Port Ort Ort Ort Ort		Action
Rate Limit>	2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 4	
Total 0	Select All Invert Clear Tip. You can select multiple ports by holding down the left mouse button and dragging the mouse.	10/page ~ <
Inbound Rate Limit	speed limit values: 54-100000KBps (The rate limit value varies with port types)	
Outbound Rate Limit	speed limit values: 64-100000KBps (The rate limit value varies with port types)	
	③ Click <ok>. The result will be displayed in the list.</ok>	

• Deleting multiple rate limiting entries

Port Settings Aggregate Port	Port mirroring Rate Limit		
ate Limit			
Configure Port Rate Limit Bu	① Click <bulk delete=""></bulk>		
Port	Inbound Rate	Outbound Rate	Action
		No Data	
	Error	×	
Total 0	Are you sure you want to delet	e these port rate limits?	10/page ~ < 1 > Go to 1
		Сапсе	

• Editing a port rate limiting entry

Port Mgt					
Port Settings	Edit Port Rate Limit	② Set configuration p	parameters in the Edit Port Rate Limit window.		×
Rate Limit	Inbound Rate Limit	2500000	speed limit values: 64-25000000KBps (The rate limit value varies with port type \ensuremath{V}	bes)	
Configure Po	Outbound Rate Limit	2500000	speed limit values: 64-25000000KBps (The rate limit value varies with port type)	jes)	
Port			③ Click <ok>. The result will be displayed in the list.</ok>	OK Cancel	tion
TF0/5		250000	0 250000	 Click < Edit> 	🖉 Edit 🖉 Delete
Total 1					10/page < <

• Deleting a port rate limiting entry

t Mgt			
Port Settings Aggregate Port Port	Mirroring Rate Limit		
ate Limit			
Configure Port Rate Limit Bulk Delete			
Port	Inbound Rate	Outbound Rate	Action
TF0/5	2500000	2500000	∠ Edit ∠ Delete ① Click < Delete >
Total 1	Error	×	10/page ~ < 1 > Go to 1
	Are you sure you want to delete	this port rate limit? Cancel OK 20 Click < OK	

2. VLAN Management

VLAN Management

Port Mgt							
VLAN Management	VLA	N Management	Trunk Management				
Static Route	Bulk	Add Add	Delete Selected VLAN	③ Click <delete selected<="" th=""><th>VLAN></th><th></th><th></th></delete>	VLAN>		
1 Click	<bulk ad<="" th=""><th>dd> ② Clicl</th><th>k <add></add></th><th></th><th></th><th></th><th></th></bulk>	dd> ② Clicl	k <add></add>				
			VLAN ID	VLAN Name	VLAN Status	Port	Action
			1	VLAN0001	STATIC	TF0/2,TF0/4,TF0/6-12,TF0/14- 48,HundredGi0/49-56,Ag1	(4) Click <edit></edit>
			2	222	STATIC	TF0/5,TF0/43,HundredGi0/55	🖉 Edit 💼 Delete
			3	333	STATIC	TF0/1,TF0/13,TF0/43,HundredGi0/55 (5) Click <delete> to</delete>	∠ Edit Delete delete a single VLAN.
	Total 3					10/page	4 1 > Go to 1
				Rujje Networks Co., Ltd. © 2022 税通网络函行	相限公司 Copyright @2021, Technical supp	(6) Jump of phone number: 4008111000	o to a certain page

• Adding multiple VLANs

Done

To add multiple VLANs,	click Bulk Add and the Bulk Add window is displayed. Enter the V	/LAN ID and
Bulk Add	×	
* VLAN ID:	Range: 1-4094; Format: (3-5,200)	
	Done Cancel	
• Adding a single VL	AN	

	Add	
To add a single VLAN, click		and the \boldsymbol{Add} window is displayed. Set configuration parameters and click

Add							×
* VLAN ID:		Range: 1-4094					
* VLAN Name:							
Select Port:							
Select Panel 1	Aggregate Port 📩 up	Shutdown 🚹 Current	: Port State 🚺 SV	/L Interface	<u>с</u> о	pper Port 📃 O	ptical Interface
	7 9 11	13 15 17 19 21 11 11 11 11 11 14 16 18 20 22	23 25 25 2 2 2 2 2 2 2 2 2 2 2 2 2	27 29 31 29 0 0 0 0 0 0 0 0 0 0 0 0 0 0	33 35	37 39 41 1 1 1 1 1 1 38 40 42	$\begin{array}{c} 43 & 45 \\ \hline \hline \\ \hline \\ 44 & 46 \end{array}$
Port Role: TRUNK	E Layer 3 Interface ar	Tip:You	can select multiple	ports by holding do	own the left mouse	button and dragg	ing the mouse.
		Don	Cancel				

• Deleting multiple VLANs

To delete the selected VLANs, click before each VLAN to select multiple VLANs, then click Delete Selected VLAN
. The error message is displayed. Click
.

Fror
Are you sure you want to delete these VLANs?
Cancel OK

• Editing a VLAN

To edit a VLAN, click 🖉 Edit , and the Edit window is displayed. Set configuration parameters and click

22

Edit		×
VLAN ID:	2	Range: 1-4094
* VLAN Name:	222	
Select Port:		
Select Panel 1	Aggregate Port 💼 up 💼 shut	idown 🚰 Current Port State 💽 SVL Interface 🚺 Copper Port 🔲 Optical Interface
	7 9 11 13 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 8 10 12 1 1 1	5 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 1
Port Role: T TRUNK	Layer 3 Interface ar	Tip:You can select multiple ports by holding down the left mouse button and dragging the mouse.
		Done Cancel

• Deleting a VLAN

To delete a VI AN click	莭	Delete The Frror dialog box is displayed Click	0

Error		\times
Are you sure you want to delete the	selected VLAN?	,
	Cancel	ОК

Trunk Management

iic Route	Set Trunk Port			
	Port	Native VLAN	Allowed VLANs	Action
	TF0/1	1	3	🖉 Edit 🛍 Delete
	TF0/43	1	ALL	🖉 Edit 🛅 Delete
	HundredGi0/55	1	ALL	🖉 Edit 🛅 Delete
	Total 3		10/pag	ge ~ < 1 > Go to 1
	UndredGi0/55	1	ALL 10/pag	∠ Edit în Delete je ∨ < 1 > Go

• Setting a Trunk port

To set a trunk	port, click	Set Trunk . The	Configure Tru	nk Port win	dow is displayed	d. Set configuration
parameters and	click or.					
Configure Trunk Por	t					×
Select Port	Select Panel	Aggregate Port	up 🗂 shutdown 💽	SVL Interface	Coppe	er Port Optical Interface
	1 3	5 7 9 11	13 15 17	19 21 23	25 27 29 31	33 35 37 39
	2 4	6 8 10 12	14 16 18 2	20 22 24	26 28 30 32	34 36 38 40
	Select All Invert	Clear	Tip:You can select m	nultiple ports by holdi	ing down the left mouse bu	itton and dragging the mouse.
* Native VLAN		Time	(s) (1-4094)			
* Allowed VLANs		VLAN	ID is 1 - 4,094.			
						OK Cancel

• Deleting multiple trunk ports

To delete multiple trunk ports, click next to each trunk port to select multiple trunk ports, and then click

 Bulk Delete
 . The Error dialog box is displayed. Click

 Error
 ×

 Are you sure you want to delete these trunk ports?
 OK

• Editing a trunk port

To edit a Trunk port, click 🖉 Edit . The Edit Trunk Port window is displayed. Set configuration parameters and click ok .

Edit Trunk Port				×
Port	TF0/1			
* Native VLAN	1	Time (s) (1-4094)		
* Allowed VLANs	3	VLAN ID is 1 - 4,094.		
			OK	Cancel

• Deleting a trunk port

To delete a selected trunk port, click ^{in Delete}. The **Error** dialog box is displayed. Click



3. Static Route

Packets destined for a specified destination network are routed along a pre-determined path when a static route is configured. The routing priority is source in source out > forward DNS proxy > policy-based routing > user-defined routing and app-based routing > static route > auto routing > multi-link load balancing and default route.

Note

The system supports up to 32 equal-cost routes to the same destination subnet. If over 32 equal-cost routes are configured, only the 32 equal-cost routes that are configured first will take effect.

Port Mgt	Static Route: By adding a static route, packets destined for a spec	cified destination network are routed along a predetermined path	n,
VLAN Manage	In Routing Preference: ', Source In Source Out > Forward DNS Link Load Balancing and Default Routing	Proxy > Policy Routing > User Routing and Application Routing :	> Static Routing > Address Base Auto Routing > Mult
Static Route	Add Static Route Add Default Route Delete Select	ted Route	
	Note: The system supports configuring 32 equal-cost routes to the sources take effect.	same destination network segment. If the number of equal-cost r	routes is greater than 32, only the first 32 equal-cost
	Dest. Segment: Dest. Mask Next Hop	p IP Router Outbound In Administrative Dista terface nce	Type Action
	0.0.0.0 0.0.0.0 10.110.6	0.1 1	Default Route
	Total 1		10/page ~ < 1 > Go to 1

• Adding a static route

Done

To add a static route, click Add Static Route. The Add Static Route window is displayed. Set configuration

parameters and click

Add Static Route		×
IP Type:	• IPv4 IPv6	
* Dest. Segment:	Example: 172.29.1.0	
* Dest. Segment Mask:	Example: 255.255.255.0	Here, an IPv4 address is configured.
* Administrative Distance:	Time (s) (1-255)	
* Next Hop IP:	Example: 172.29.13.1	
Outbound Interface:	Please Select ~	
		Done Cancel

• Adding a default route

To add a default route, click Add Default Route. The Add Default Route window is displayed. Set configuration parameters and click Done.

Add Default Route		×
IP Туре:	• IPv4 IPv6	
* Administrative Distance:	Time (s) (1-255)	
* Next Hop IP:	Example: 172.29.13.1	
Outbound Interface:	Please Select ~]
		Done Cancel

• Deleting the selected routes

To delete the sele	ected routes, click	next	to each	route	to s	select	multiple	routes,	and	then	click
Delete Selected Route	. A dialog box is displayed.	Click	Delete								



• Editing a static route

To edit a route, click 🄌 Edit . The Edit Static Route window is displayed. Set configuration parameters and

click Done.			
Edit Static Route			×
IP Type:	• IPv4 IPv6		
* Administrative Distance:	1		
* Next Hop IP:	10.110.60.1		
Outbound Interface:	Please Select ~		
		Done	Cancel

• Deleting a static route

To delete a static route, click 볩 D	<mark>elete</mark> . A dia	alog box is di	splayed. Click	Delete	
Are you sure you want to delete?					
	Cancel	Delete			

4. DHCP Server

DHCP Address Pool Management

• Enabling the DHCP server

DHCP Server						
OHCP Snooping	Address Pool Manag	ement Assign Sta	Reserved IP Range As I	od Addresses		
			Reserved in Range As I			
	Name of Add Pool	ress Address Type	Address Range	Default Gateway	Lease Time (min)	DNS
				No Data		
	Total 0				10/page ~	< 1 > Go to 1
		Ruijie Networks Co., L	td. © 2022 锐捷网络股份有限	松司 Copyright @2021, T	echnical support phone number: 40	08111000

• Disabling the DHCP server

DHCP Server	
DHCP Snooping	Address Pool Management Assign Static IP Address Assigned Addresses
	As DHCP server:
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• Adding a DHCP address pool

Ruíjie INC	Hom	e Con	figuration 🖂	O&M ~	System ~				Quick Setup English \vee 🛞 admin •
DHCP Server					Add DHCP ② Set configura	ation parameter	s in the	displayed window.	
DHCP Snooping		Address P	ool Management	Assign	S Name of Address Pool:				
① Click <add dhc<="" th=""><th></th><th>Add DHCI</th><th>P Delete Se</th><th>elected DHCP</th><th>Address Type:</th><th>O v4 ○ v6</th><th></th><th></th><th></th></add>		Add DHCI	P Delete Se	elected DHCP	Address Type:	O v4 ○ v6			
		□ ^{N:}	ame of Address Pool	Address Type	Address Range Setting:	Based on Segment/Subnet Mas	ik ~		Action
					* Segment:	Example: 192.168.1.0			
		Total 0			* Mask:	Example: 255.255.255.0			10/page ∨ < 1 > Go to 1
					* Default Gateway:	Example: 192.168.1.1			
					* Lease Time:	Please Enter	min ~	0	
					Primary DNS Server:	Example: 114,114,114,114		0	
					Secondary DNS Server:	Example: 114,114,114,114		0	
					IP Address for CWMP				
					Service:				
					③ Click be disp	<done>. The re layed in the list.</done>	esult wi	Done	
						Co. Ltd. @ 2022 L 能建网络影响	有限公司 Convri	whi @2021 Technical support phone number: 4008111000	

• Deleting the selected DHCP address pool

Add DHCF	Delete Se	lected DHCP	Reserved IP Range As DH	CP server: 🔵		
Na	① Click <de me of Address Pool</de 	elete Selected D Address Type	HCP> Address Range	Default Gateway	Lease Time (min)	
	111	٧4	172.29.17.1-172.29.17.254	172.29.17.3	Permanent	114
Fotal 1						-
			Error		>	×
			🚺 Are v	ou sure you want to	delete these address pools?	

• Configuring the reserved IP range

Address Pool Management Assign :	Reserved IP Range ② Set configura	tion parameters in the displaye	ed window.	
Add DHCP Delete Selected DHCP	Reserved IP These IP a Range: entered by	ddresses will not be assigned to clients. Format: 1.1.1.1-1. you, then it is an single IP.	1.1.30. If only 1.1.1.1 is	
OClick < Reserve Address Pool Type	ed IP Range> Reserved P Range1:		+ s	Action
	Reserved IP Range2:	-		
Total 0	Reserved IP Range3:	· · ·		10/page ~ < 1
		Done Cancel ③ Click in the Re	<done>. The result will be dis eserved IP Range pane.</done>	

• Editing a DHCP address pool

Ruijie INC	Home Configuration ~ O&M ~	System V		Quick Setup English 🗸 🛞 admin •
DHCP Server		Edit DHCP ② Set configura	ation parameters in the	displayed window.
DHCP Snooping	Address Pool Management Assign 5	* Name of Address Pool:		
	Add DHCP Delete Selected DHCP	Address Type:	• v4 · v6	
	Name of Address Address Pool Type	Address Range Setting:	Based on Segment/Subnet Mask $\qquad \qquad \qquad$	Action
	- 111 v4	* Segment:	172.29.17.0	114 ① Click <edit> Z Edit @ Delete</edit>
	Total 1	* Mask:	255.255.255.0	10(page ~ < 1 > Go to 1
		* Default Gateway:	172.29.17.3	
		Lease Time:	Please Enter Permar ~	0
		Primary DNS Server:	114.114.114	0
		Secondary DNS Server:	Example: 114,114,114,114	ø
		IP Address for CWMP		
		Service:		
		③ Click <d displayed i</d 	one>. The result will be n the list.	Done Cancel
		Ruijie Networks	Co., Ltd. © 2022 锐速网络股份有限公司 Copyri	oht @2021, Technical support phone number: 4008111000

• Deleting a DHCP address pool

Add DHC	CP Delete Se	lected DHCP	Reserved IP Range As DH	ICP server: 🚺			
N	lame of Address Pool	Address Type	Address Range	Default Gateway	Lease Time (min)	DNS	Action ① Click <dele< th=""></dele<>
	111	v4	172.29.17.1-172.29.17.254	172.29.17.3	Permanent	114.114.114.114	🖉 Edit 🛅 Delete
			Error		×		
otal 1				want to delete this ad	dress pool?	10/page <	< 1 > Go to

Assigning Static IP Addresses

Ruíjie INC	Home Co	onfiguration ~	O&M ~ System	~			Quick Setup Englis	sh 🗸 🛞 admin -
DHCP Server								
DHCP Snooping	Address	Pool Management	Assign Static IP Add	ress Assigne	d Addresses			
	Add	Delete				Enter clie	ent name, IP address or M/	AC a Q Clear
		Client Name	IP Address	Mask	Gateway	Client MAC	DNS Server	Action
					No Data			
	Total 0					10/page	• · · · · · · · · · · · · · · · · · · ·	Go to 1

• Choose DHCP Server > Assign Static IP Address > Add to access the Add static IP address page and add a static IP address.

Ruíjie INC	Home Configuration ~ O&	M ~ System ~					
DHCP Server							
DHCP Snooping	Address Pool Management	Assign Static IP Address	Add		×		
	Add Delete		* Client Name:				Er
	Client Name	IP A				Client MAC	DNS Ser
			* IP Address:	Example: 192.168.1.0			
	Total 0		* Subnet Mask:	Example: 255.255.255.0			1
			* MAC Address:	Example: 0002.0002.0002			
			* Gateway:	Example: 192.168.1.1			
			* DNS:	Example: 114,114,144,144			
					OK Cancel		

The Assigned IP Addresses Page

Ruíjie INC	Home Configuration \vee O&M \vee SOE	✓ System ✓		Quick Setup English	 ✓ (admin •
DHCP Server					
DHCP Snooping	Address Pool Management Assign Static IP A	ddress Assigned Addresses			
	Bind MAC addresses to dynamically acquired IP ad	esses	Query by IP address \lor		Search
	Assigned IP Addresses	MAC Address	Lease Time (min)	Internet Type	Action
		No Data			
	Total 0 10/page ~ < 1 > Go t	to 1			

5. Configuring DHCP Snooping

Ruíjie INC	Home Configuration V O&M V System V Quick Setup English V 🙆 admin •				
DHCP Server	DHCP Snooping				
DHCP Snooping	DHCP listening function can listen to DHCP messages in the network, the correct client IP MAC, Vian, interface and other information recorded to the legitimate client library (software table). In conjunction with IP Source Guard, ARP Inspection and other information recorded to the legitimate client library (software table). In conjunction with IP Source Guard, ARP Inspection and other information recorded to the legitimate client library (software table). In conjunction with IP Source Guard, ARP Inspection and other information recorded to the legitimate client library (software table). In conjunction with IP Source Guard, ARP Inspection and other information recorded to the legitimate client library (software table). In conjunction with IP Source Guard, ARP Inspection and the advection is addition. by dividing interfaces into trusted interfaces, only trusted DHCP servers are blocked to prevent DHCP server spoofing. You are advected to enable this function on access switches. In the fasture is enabled, WEB MAB authentication, obtaining MAC addresses through commercial maneting authentication, and obtaining MAC addresses through local server authentication will fail. InterP Snooping Control Configure Trusted Interfaces. Configure Trusted Interface				
	Peeseseted te interface (usualy an upfink interface) that and UDCP every as a trusted interface. Any unselected interface as an unstand interface. • • • system will only forward DHCP exply messages from inturbed interface. Sequests from DHCP circle will be table to be able to be able to be able to be able. • • • DHCP service is not anabled on the local device, you and correct promote that interface. • • • Onfigure the interface contended to the DDHCP server. • • • • • • • • • • • • • • • • • • •				

6. Logs

Configuring the Log Server

Ruijie INC	Home Configuration V O&M V System V Quick Setup English V 🛞 admin •
Log Server	Log Server
SNMP/Trap	
Telnet/SSH	Syslog Upload Syslog Upload Enabled * IP of Upload Dest. Server: Please Enter * Port: 0
	The port number is 514 by default. Please use a port with a port number between 1024 and 65,535. Make sure that the port is not used by other UDP packets. Logging Level Please Enter ~
	Logging level: 0 indicates a critical error, 1 indicates an error that needs to be corrected immediately, 2 indicates a critical error, 3 indicates an error that needs attention but is not critical, 4 indicates a warning that may exist, 5 indicates the information that needs attention, 6 indicates the general information, and 7 indicates the debugging information. The smaller the number, the more urgent and important the log is.
	Logging through management
	Save Restore Defaults

Configuring SNMP or the Trap Function

The Simple Network Management Protocol (SNMP) enables a network administrator to easily monitor and manage nodes on a network.

- SNMP Version: indicates the SNMP version supported by the switch, which can be SNMPv2 or SNMPv3.
- Location: indicates the location the switch.
- **SNMP Community String**: is used by the management host to connect to a switch.
- Trap Community String: is used to connect to the management host. When an alarm is generated on a
switch, the switch can send the alarm to the management host.

• **Trap receiver**: refers to the management host that receives alarms from a switch. A maximum of 10 trap receivers can be configured.

SNMPv3 is more secure than SNMPv2. The encryption password and authentication password of SNMP users need to be configured.

Only one SNMP version	can be configured, that is, SNMP V2	or SNMP V3.
SNMP Version:	• V2 \(\) V3	
Location:	Please Enter	
* SNMP Community String:	Please Enter	
Trap Community String:	Please Enter	Trap Community String must be the same as SNMP Community String.
* Trap receiver:	Please Enter	A maximum of 10 Trap receivers can be configured. Multiple IP addresses must be separated by comma (,) or CRLF ().
Sa	Clear	
Only one SNMP version	can be configured, that is, SNMP V2	or SNMP V3.
SNMP Version:	○ V2 ○ V3	
Location:	Please Enter	
* SNMP Community String:	Please Enter	
Trap Community String:	Please Enter	Trap Community String must be the same as SNMP Community String.
Encryption Key:	Please Enter	
Authentication Key:	Please Enter	
* Trap receiver:	Please Enter	A maximum of 10 Trap receivers can be configured. Multiple IP addresses must be separated by comma (,) or CRLF (\downarrow).
Sa	Clear	
SNMP V2: Salar	t 💿 V2 Set cor	afiguration parameters and click
SNMP V3: Selec	t 💿 🔽 . Set con	figuration parameters and click submit the configuration.
Clear: Click	to clear the S	NMPv2 or SNMPv3 configuration.

Configuring Telnet or SSH

You can remotely connect, manage and configure this device through Telnet or SSH.						
Telnet Service						
SSH Service						
Username:	admin					
* New Password:	Please Enter	0				
* Confirm Password:	Please Enter					
	Save					
Telnet/SSH: Clic to enable or disa ^{Save} to subm you do not need	Telnet Service	to enable or disable the Telnet service, and click SSH Service The default user name is admin . Set configuration parameters and click gurations. When both the Telnet service and SSH service are disabled,				
 You can remotely 	y connect, manage and confi	gure this device through Telnet or SSH.				
Telnet Service						
SSH Service						
When configurin	g a switch through Tel	net, you must log in with this password.				



7. STP Loop Guard

Global Settings

The purpose of SPT Loop Guard feature is to discover and start an optimal tree topology of LAN to ensure stability of the network. SPT protocol: a protocol used to avoid broadcast storms caused by link loops and to provide redundant backup of links.

Enable STP Loop Guard			·		
Priority:	8	Range: 0-	Handshake Time:	2	Time (s): 1-
15. Default: 8			10. Default: 2		
Aging Time:	20	Time (s): 6-40.	Forward Delay:	15	Time (s): 4-
Default: 20			30. Default: 15		
SPT Mode:	MSTP ~				
MST Name:		No more than	MST Version:	0	Range: 0-
32 characters.			65535. Default: 0		
Enable or disable STP Loop guard.	Guard: Click	Enable ST	P Loop Guard	enable or disable	STP loop
Global Settings: Enable ST	P Loop Guard a	nd set configuration	on parameters. Th	ere are three STF	^o modes,
which are STP, RSTP, and M	STP. Click Save	to submit the glo	obal settings.		
Port Settings					
i Note					
You are advised to enable Pc	ort Fast on the por	rt directly connecte	ed to a PC.		
1. Setting the STP loop g	uard function for	multiple ports			
Click Bulk Set . The Bulk Set	et window is displa	yed. Set configura	tion parameters. A	dd or delete the po	ort priority
by clicking + Add or T	elete . Select mul	tiple ports, and cli	ck Save to sub	omit the configurati	on. Then

the result will be displayed in the list.

STP Loop Guard					
	Bulk Set			×	
Global Settings Port Sett	Protection Mode:	Close ~			
Note: You are advised to enable Po					
Bulk Set	Port Fast:	Close ~			
Port Port Status	BPDU Guard:	Enable ~			Action
	Connection Type:	Auto			
Total 0	Port Priority:			+ Add	10/page ~ < 1 > Go to 1
		Instance: Please select V	Priority: Please enter the p Range: 0-240, a n	whple of 16	
		Instance: Please select V * F	Priority: Please enter the p Range: 0-240, a n	nultiple of 16	
		Delete			
	Select Port:				
	Select Panel 1 Aggregate Po	ort 💽 SVL Interface		Copper Port Optical Interface	
	1 3 5 7 9	11 13 15 17 19 21 2:	3 25 27 29 31 33 35	37 39 41 43 45 47	
	2 4 0 6 10	12 14 10 16 20 22 24	4 20 26 30 32 34 30	38 40 42 44 40 48	
	Select All Invert Clear	Tip:	You can select multiple ports by holding down th	e left mouse button and dragging the mouse.	
				Save Cancel	
		Ruilie Networks Co., Ltd. © 202	2 供表网络股份有限公司 Coovright @2021. Techn	ical support phone number: 4008111000	

2. Editing the STP loop guard function for a single port

Click Click

port priority by clicking	+ Add	or	💼 Delete . Cli	ick	Save	to submit the configuration. Then the result will
be displayed in the list.						
Port:TF2/7/20						×

Protection Mode:	None		~					
Port Fast:	Close		~					
BPDU Guard:	Close		~					
Connection Type:	Auto		~					
Port Priority:							+ Add	
	Instance:	0	~	* Priority:	128	Range: 0-240, a multiple of 16		
							Save	Cancel

STP State

STP Loop Guard
Global Settings Port Settings SPT State
SPT State: SPT Mode: MSTP Root Bridge Status: Root Bridge
Instance: Please Select V
Select Panel Port:
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45 47 49 51 53 55 1 1 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 56
Port Role: 7 TRUNK 3 Layer 3 Interface @ Root Port @ Designated Port @ Alt Port @ Master Port State: STP Enabled and Forwarding STP Enabled and Blocking STP Enabled (
Edge Port Enabled
Disable Edge Port: Select the Up port and click Edge Port Enabled. The icon of Port 23 is changed to
Enable Edge Port: Select the Up port and click Edge Port Enabled. The icon of Port 23 is changed to

8. RLDP Link Detection

The Rapid Link Detection Protocol (RLDP) is independently developed by Ruijie Networks for rapid detection of Ethernet link failures. It is used for loop detection on access switches in a specific situation where a loop occurs on the downstream hub of the access switch (BPDU guard cannot prevent this type of loops). You are advised to enable RLDP on all ports of the access switch connecting to clients, in order to prevent all types of loops on these ports.

RLDP can also be enabled for distribution switches, but the loop guard performance is coarse-grained.

Global Settings

STP Loop Guard	RLDP Link Detection									
RLDP Link Detection	RLDP is used for loop detection on access switches, especially when the downlink HUB of the access switch may form loops (BPDU Guard cannot prevent this type of loops). You are advised to enable RLDP feature for all ports of the access switch connacting clients, in order to prevent all types of loop on the port. RLDP: Rapid Link Detection Protocol, is a protocol independently developed by Ruije Networks for rapid detection of Ethernet link failures. Image: Control and prevention is control and prevention is control. RLDP: Rapid Link Detection Prot Settings Port Settings RLDP State									
	* Detection Interval: 3 Range (1-15s)									
	* Number of Detections: 2 Time (s) (2-10)									
	Restore Cycle: Time (s) (30-86400)									
	Save									
	Ruijie Networks Co., Ltd. © 2022 観趣网络研究研究公司 Copyright @2021, Technical support phone number: 4008111000									
1. Save: After	you have entered the detection interval, number of detections, and restoration cycle (optional),									
click Save t	o save the global settings.									
2. RLDP Link	Detection: Click C RLDP Link Detection to enable or disable RLDP.									
Port Configura	ation									

Note

(1) Enabling loop detection on a port can prevent broadcast storm caused by loops. You are advised to enable loop detection on ports of the access switch connecting to a client.

(2) RLDP must be enabled on both ports for unidirectional and bidirectional link detection. You are advised to enable RLDP on the link between switches.

(3) Only port violation or alarm detection types can be configured for aggregated ports. Loop detection on a member port of the aggregated port will be synchronized to other member ports of the aggregated port.

STP Loop Guard	RLDP Link Detection								
RLDP Link Detection	RLDP is used for loop detection on access switches, especially when the downlink HUB of the access switch may form loops (BPDU Guard cannot prevent this type of loops). You are advised to enable RLDP feature for all ports of the access switch connecting clients, in order to prevent all types of loop on the port. RLDP can also be enable of distribution switch but the sgran of loop control and prevention is carse. RLDP. Rapid Link Detection Protocol, is a protocol independently developed by Ruijie Networks for rapid detection of Ethernet link failures.								
	Global Settings Port Settings RLDP State Description: 1 Port open loop detection, can avoid the loop caused by the broadcast storm problem. It is recommended to turn on RLDIP loop check on the port where the access device connects to the user's IPC.								
	A Scher heads a boot as be sensed on toom point a sense contractioner in a sense of the sen								
	Port Detection Type: Troubleshooting Action								
	TF0/1 Loop Detection : Alarm 2. Edit 🗈 Delete								
	Total 1 10/page ~ < 1 > Go to 1								
	Ruijje Networks Co., Ltd. © 2022 包括网络服务有限公司 Copyright @2021, Technical support phone number: 4008111000								

1. Adding an RLDP-enabled port

Click . The Add RLDP Detection Port	Port window is displayed.
Add RLDP Detection Port	×
Detection Type:	Alarm
Bidirectional	Alarm 🗸
Loop Detection	Alarm 🗸
Select Panel 🚹 Aggregate Port 📩 up 📩 shutdown 💽 SVL Interface	Copper Port Doptical Interface
1 3 5 7 9 11 13 15 17 19 21 23 1	25 27 29 31 33 35 37 39 41 43 45 47
Select All Invert Clear Tip:You of Add Cancel	can select multiple ports by holding down the left mouse button and dragging the mouse.

RLDP involves unidirectional link detection, bidirectional link detection, and loop detection. Options in the dropdown list boxes corresponding to these three types include **Alarm**, **Disable port learning and forwarding**, **Port**

violation, and Disable SVI. You can select multiple ports one by one, or using the Select All Invert Clear

button. Click to submit the configuration. The result will be displayed in the list.

RLDP State

Global Settings	Port Settings	RLDP State	
Local MAC Address: 00	22.0513.1014		
Select Panel Port:			
Select Panel 🚹	Aggregate Port	up 💼 shutdown 💼 Current Port State	Copper Port Optical Interface
	7 9 11		37 39 41 43 45 47
		14 16 18 20 22 24 26 28 30 32 34 36	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
RLDP State: S RLDP I	Monitoring 🔹 Violated	Port	
Recover All			

RLDP State: You can select RLDP Monitoring or Violated Port.

Restore All: You can click

to recover all violated ports.

1.3.6 O&M

1. Ping or Tracert

Performing a Ping Test

Ruíjie INC	Home Configuration ~ O&M ~ System ~	Quick Setup	English 🗸	⊗ admin •
Ping Test				
Traceroute Test	Ping Mode: Non-Management Interface \sim			
	* Dest. IP Address or Domain Name: 192.168.1.1			
	* Timeout Period: 2			
	* Number of Retries: 5			
	* Packet Size: 100			
	* Allow Fragmentation: • Yes No			
	Start Stop			
	Sending 5, 100-byte ICMP Echoes to 192,168.L.1, timeout is 2 seconds: <press break="" ctrl+c="" to=""></press>			
	Ruijie Networks Co., Ltd. © 2022 线超网络股份有限公司 Copyright @2021, Technical support phone number: 4008111000			

1. Start: Select Non-Management Interface from the Ping Mode drop-down list box to select the ping mode. You can select Non-Management Interface and Management Interface, and there may be multiple management interfaces. Enter the destination IP address or domain name, timeout period, number of attempts, and packet size. The Allow Fragmentation item is displayed only when Ping Mode is set to Non-Management

Interface. After setting configuration parameters, click to run the ping test. After the ping test is complete, the test results will be displayed.

2. **Stop**: Click to stop the current ping test.

Performing a Tracert Test

Ruíjie INC	Home Configuration V O&M V System V	Quick Setup	English 🗸	(⊘) admin •
Ping Test				
Traceroute Test	Tracert Mode Non-Management Interface 🗸			
	* Dest. IP Address or Domain Name: 192:168.1.1			
	* Timeout Period: 2			
	⇔ Start Stop			
	<pre>< press Ctrl+C to break > Tracing the route to 192.168.1.1</pre>			

1. Start: Select Non-Management Interface from the Tracert Mode drop-down list box to select the tracert mode. You can select Non-Management Interface and Management Interface, and there may be multiple

management interfaces. Enter the destination IP address or domain name and timeout period. Click run the tracert test. After the tracert test is complete, the test results will be displayed.

to

2. Stop: Click	Stop	to stop the current tracert test.
----------------	------	-----------------------------------

2. Performing One-Click Collection

You can use the One-Click Collect function to collect switch fault information for troubleshooting.

Ruíjie INC	Home Configuration \vee O&M \vee System \vee	Quick Setup	English \vee	⊗ admin .
One-Click Collect	Note: This One-Click Collect button collects fault information for device troubleshooting.			
	One-Click Collect			

Collecting fault information may take about 10 minutes. After the collection is complete, you can download the collected fault information to a file named **tech_vsd0_20210716142650.tar.gz**.

One-(Click Collect: Click ^{One-Click Collect} . The Error dialog box is displayed.
	It may take more than 10 minutes to collect information. Do you want to continue? Cancel
Click comp	OK . The collecting process starts, and Collecting is displayed. After the collection process is lete, the Error dialog box is displayed.
0	Collect succeeded.
Click	Download to download the collected information in a tar.gz compressed file.

3. Restarting the Switch

Click **Restart Now** to restart a switch. The restart process takes about 1 minute. Do not perform any operation during this period. After the switch is successfully restarted, the current page will be refreshed automatically.

Ruíjie INC	Home Configuration V O&M V System V	Quick Setup	English	\sim	⊗ admin •
Restart					
	You can click "Restart Now" button below to restart the router. Note: The restart process takes about one minute. After restart, the system automatically jumps to the login page for you to log in again.				
	Restart Now				

4. Upgrading the Switch

Note

You can download the required software version file from Ruijie Networks's official website to the local PC and upgrade the switch using the downloaded file.

A Caution

- 1. When upgrading the main program or the web package, ensure that the version and model are the same as those of the current switch.
- 2. During upgrading, there may be no response temporarily due to flash loading. In this case, do not power off or restart the switch until the upgrade is successful.

Note: You can download the corresponding software version from the official website to the local PC and upgrade the device in the following ways.
important: 1. When upgrading the main program or web package, please make sure that the software version and model are the same as those of the device to be upgraded. 2. During upgrading, the page may not respond temporarily due to flash sorting. In this case, do not power off or restart
the device until the upgrade is successful. !
selete file:
Select

5. Basic Configurations

Default DNS Server

Ruíjie INC	Home Configuration V O&M V System V Quick Setup English V (2) admin •
Default DNS	
System Cha	Enter the DNS address provided by your operator. If you don't know the DNS address, you can directly enter 114.114.114.114.114. If you want to configure the IPv6 DNS server, you are advised to enter 240c::6666.
System Time	DNS Server 1: 114.114.114.114 +
	Save
1. You can clic	ck $^+$ to add a DNS server, click $^ imes$ to delete a DNS server, or click save to submit the

configuration.

System Character Set

	-												
7	Ruíjie INC	Home	Configuration \vee	O&M	~	System	/			Quick Setup	English	\sim	(⊗) admin •
	Default DNS												
	System Cha	0	The default system cha	racter set is C	GBK Ple	ease set the s	ame system	character set	for terminal e	mulators such as Se	ecureCRT.		
	System Time		System Character Set	GBK		^	Save						
				UTF-8									
				GBK									

System character set: There are two options in the System Character Set drop-down list box, which are UTF-

8 and GBK. The default value is UTF-8. After a character set is selected, click to save the configuration. System Time

Ruíjie INC	Home Configuration ~	O&M ~ System ~ Quick Setup English ~ (2) add	min •
Default DNS			
System Cha	Current Time:	2022-09-30-11:17:18	
System Time	Reset Time:	Select Date and Time	
	Time Zone:	UTC+8 ~	
	Time Zone Synchronization:	Automatically synchronized with Internet time server	
		Automatically synchronize time with the Internet time server through the management interface.	
		Change	

You can manually select the system time or select **Time Zone Synchronization** to automatically synchronize the switch system time with the Internet time server.

6. Configuration Management

Performing Configuration Backup

The configuration backup function enables you to import or view the running configuration of the switch.

Ruíjie INC	Home Configuration V O&M V S	ystem ~	Quick Setup	English \vee	⊘ admin
Config Backup					
Config Import	Export running configurations of this device. Export Running Config	<u>uration</u>			
1. Export runn	ing configuration: You can click	Export Running Config	to generate the config	.text text	file.

2. View running configuration: You can click <u>View Running Configuration</u> to switch to the Current Config page.

DACK	
urrent Config	
Building configuration	
Current configuration: 4677 bytes	
version	
1	
i	
route-map test permit 10	
!	
route-map tett permit 10	
!	
route-map t permit 10	
!	
route-map ROUTEMAPIN permit 10	
ip vrf test	

Importing Configurations

Ruíjie INC	Home Configuration V O&M V System V Quick Setup English V (2) admin V
Config Backup	
Config Import	Do not close or refresh this page during importing. Otherwise, the import will fail. After the configuration is imported, the device will restart. File Name: Select No file is selected. Import Mew Running Configuration
1. Import con	figurations: You can click Select to select the configuration file to be imported, and then click



to import the configuration file.

2. View running configuration: You can click <u>View Running Configuration</u> to switch to the **Current Config** page.

7. Restoring Factory Settings

You can click **Restore Factory Settings** to delete all the configurations of the switch, and restore the switch to factory settings. To save the current configuration, you are advised to export the current configuration by clicking **Export Setup**.

Ruíjie II	Home Configuration \vee O&M \vee System \vee	Quick Setup	English	\sim	⊗ admin •
Restore	Note: Restoring factory settings will delete all running configurations. If there are useful configurations in the current system, you can first [Export Running Configurations] before restoring factory settings. <u>'Export Setup'</u> , Please restore the factory settings.				

8. Web Console

The web console simulates the connection of a client connection tool such as xshell, rt, mobaxterm to the controller of the switch.

Ruíjie INC	Home Configu	ration ~ O&M ~	System V		Quick	sSetup English ∨	(⊗) admin •	
Web Console	Console Output							1
	Ruijie#							
	Command Input:	Please enter the comma	and.	Send	Clear Screen			U
1. Enter a co	ommand in	Command Input:	Please enter t	he command.		and click	Send	The command
execution res	sult will be d	isplayed in the	e console.					

	Clear Screen	
2. Click		to clear the output result.

1.3.7 SOE (paid service)

SOE is a paid service and is available only when an RG-INC-EMB-SW-AMAINT license is imported.

Ruffe INC Home Configuration ~ O&M ~ S	System V	Quick Setup English 🗸 🛞 admin •
9	Select Device: 1/0 V	
Management IP MAC Address	1.5 % Current CPU Usage	18.6 % Current Memory Usage
Software Version WEB Version	95 100	96 100
Hardware Version 1.00 S/N G1RW21P000028 Svstem Time 2021-11-15 24 45 50	80 - 60 - 40 -	80
Start Time 2021-11-12 03:40:34 Up Since 2d21h5min16s	00.44.55 00.45.05 00.45.15 00.45.25 00.45.35 00.45.45	0,0044:55 0045:05 0045:15 0045:25 0045:35 0045:45
Select Panel Aggregate Port in up shutdown SVL Interface		Copper Port Optical Interface
1 3 5 7 9 11 13 15 17 19 21 23 1<	25 27 29 31 33 35 37 39 41 43 45 47	40 51 53 55
Port Role: 10 TRUNK @ Layer 3 Interface		

Page layout before an RG-INC-EMB-SW-AMAINT license is imported



Page layout after an RG-INC-EMB-SW-AMAINT license is imported

1. Deployment Wizard

Step 1: Assign a management subnet.

Step 2: Create a configuration template.

Step 3: Bind a configuration template.



Assigning a Management Subnet

Assigning a management subnet refers to configuring the default management VLAN and management subnet, and user-defined management VLAN and management subnet. When a management subnet is assigned for the first time, the user-defined management VLAN and management subnet are optional. The user-defined management VLAN and management subnet cannot be removed when being assigned.

A switch going online through the zero-touch provisioning (ZTP) process will be assigned with an IP address based on the default management VLAN and management subnet. If a user-defined management VLAN is configured, the switch will be assigned with an IP address based on the user-defined management VLAN and management subnet.

Assign Managemen t Segment	2 Create Config on Template	Bind Configuration Template
Default Management VLAN and	Segment	
* Management VLAN	1	
* Management Gateway	10.110.60.1	
* Management Segment/Subnet Mask	10.110.60.0/24	
* IP of SOE Components	10.110.60.158	ø
Excluded Addresses	10.110.60.1-10.110.60.200	
Custom Management VLAN and	d Segment Ø	
* Management VLAN	30	
* Management Gateway	10.110.70.1	
* Management Segment/Subnet Mask	10.110.70.0/24	
Excluded Addresses	10.110.70.1-10.110.70.200	
	Save and	Next

Configure User-Defined Management VLAN and Management Subnet.

The default management VLAN and management subnet must not be on the same subnet. Click to save the configuration and switch to **Create Configuration Template**.

Creating a Configuration Template

Create a template			
Create Template	⑦ Search a configura the template name h	ation template by entering ere and pressing Enter.	
Template Name	Number of Applicable Ports	Number of Associated Devices Action	
irst	 ② View the devices assorted and the semplate. 18 	2 🖉 🖉 Edit 3 Edit a ter	nplate
second	18	 ④ Delete a template. The template associated with	
hird	4	0 《 Edit 前 Delete	
hird	18	0 template associated with	

You will be redirected to the same **Configuration Template** page when you click <Create Template> and <Edit>.

								~	
System \vee	Configuration Te	mplate _{Crea}	te using CLI co	ommand					
ment	* Template Name	P	lease Enter.			U			
	* Number of	1	8	~	V	fiew device model/number of ports			
	Applicable (Copper)								
	Ports								
	* Telnet Credential	d	lefualt(strong pa	ssword)	~	0			
	* SNMD Credential								
	annin Gredendar		eruarit/scrong pa	ssword) ~		,			
	* Local Web	d	lefault	~	0				
	Credential								
	Port Global								
	Access Port	💼 Trunk P	Port						
	1 3	5 7	0 11	13 15	17				
	i	ě é i	ė ë		ĕ				
					•				
	2 4	6 8	10 12	14 16	18				
	Please select the p	port. Multiple port	ts can be selecte	ed.			Select All	Clear	
	L Dart Canfin								
	Port Conlig								
					🛛 Ple	ease select the port to be set on the device panel first			
	Port List								
	Port Name	Port Type	VLAN			MAC Advertisement		_	
	Gi0/1	Access	1			Enable			
	Gi0/2	Access	1			Enable		_	
	Gi0/3	Access	1			Enable			
	Gi0/4	Access	1			Enable			
	Gi0/5	Access	1			Enable			
	Gi0/6	Access	1			Enable			
	Gi0/7	Access	1			Enable			
		-							
							Cancel	Gave	

Configuring a template: Set configuration parameters in the displayed window. In the Port Config panel, select

a ports, set configuration parameters in the displayed window and click **OK**. Click **Save**. The results can be viewed in the **Port List** panel. The port configuration or preview is displayed.

	Acces	s Port		Tru	nk Port							
	1	3	5 1 6	7 ••••••••••••••••••••••••••••••••••••	9 1 0	11 ••• ••• 12	13 13 14	15 ••••••••••••••••••••••••••••••••••••	17 ••••••••••••••••••••••••••••••••••••	You can select one or more ports.		
'le	ase s	elect th	e port. N	/lultiple	ports ca	in be sel	ected.			You can click <select all=""> or <clear> to quickly select or delete one or more ports.</clear></select>	Select All	Cle

I Port Config Selected: 1 2 3 4 5 0 7 8 6 0 11 12 13 14 15 10 17 18

 * VLAN ID Advanced Settings OK	* Port Type	Access	~		
 Advanced Settings OK Ø Confirm your operation 	* VLAN ID	1			
OK Sconfirm your operation	✓ Advanced Sett	lings			
		ОК	Confirm your operation		

I Port Config Selected: 1 2 3 4 5 0 7 8 0 10 11 12 13 14 15 10 17 13

* Port Type	Access ~	
* VLAN ID	1	
 Advanced Settir 	(1) Expand Advanced	Settings.
MAC Advertisement	Z Enable	
Loop Guard	Enable ~	0
Storm Control	🗌 Unicast 🔲 Multicast	Broadcast
Port Isolation	Enable 0	② Select one or more ports, set configuration parameters.
PoE	Enable ~	0
PoE Priority	Low	0
	OK 🛛 🖉 Confirm your	operation ③ Click <ok> to save the configuration.</ok>

Port List

Port Name	Port Type	VLAN	MAC Advertisement
Gi0/1	Access	1	Enable
Gi0/2	Access	1	Enable
Gi0/3	Access	1	Enable
Gi0/4	Access	1	Enable
Gi0/5	Access	1	Enable
Gi0/6	Access	1	Enable
Gi0/7	Access	1	Enable
Gi0/8	Access	1	Enable
			Cancel

 Preview: You can click
 Create using CLI command
 to switch to the Configuration Template (Using CLI

 Command) page. On the Custom CLI Commands pane, enter the customized CLI command and click

 Confirm and Preview

 to save it. You can view the parameters of the current configuration template in the Preview

pane on the right. You can click or Configuration Template (Using CLI Command) to switch to the **Configuration Template** page.

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1. Do not use custom CLI commands for features that are supported by the visual interface. 2.Please make sure that each custom command is correct. Please make sure that all custom commands are correct. The deviceDo not use custom CLI commands for features that are supported by the visual interface 3.2920USeries will ignore this configuration(including SF2920U, IF2920U, IF2920U, PF2920U series)					
view	Custom CLI Commands				
username sfadmin password ruijie@123 line vty 0 35 login local privilege level 15 ! interface GigabitEthernet 0/1 no ip dhcp snooping trust switchport mode access switchport mode access switchport nocess vlan 1 no switchport protected snmp trap macrnotification added snmp trap macrnotification removed poe enable poe priority low no autorpower-down enable no storm-control broadcast no storm-control multicast no storm-control unicast rldp port loop-detect shutdown-port ! interface GigabitEthernet 0/2 no ip dhcp snooping trust switchport mode access switchport mode access switchport access vlan 1 no switchport protected snmp trap macrnotification added snmp trap macrnotification removed poe enable poe priority low no autorpower-down enable no storm-control broadcast no storm-control broadcast no storm-control multicast no storm-control multicast no storm-control unicast rldp port loop-detect shutdown-port !	Please enter CLI commands here. You are advised to use a text editor to edit and then paste the content here.				

A	ssociated Device								×
1	emplate name:first					② Sear	ch box SN	Please Location	
¢	Status	Device IP	Device SN	Model	Name	Area Name	Location	Action	
	Not Managed		MACC942570009		1	defaultAre		🖉 Edit 🗇	Delete
							③ Edi	t an associate	ed device
	Total 1 10/page	e ~ < 1	> Go to 1	① Jump to a ce	ertain page				

Configuring the Associated Device

On the Associated Device page, click ² Edit . The Bind a single device page is displayed. After setting

	Bind	
configuration parameters, click		to bind one switch.

Bind a single device		×
* Device SN	MACC942570009]
* Bound Configuration Template	first ~	
Area Name	defaultArea]
Location	Please enter. Example: Room 3001.	Ø
Name	1	Ø
	(Cancel Bind

Binding a Configuration Template

Binding One or More Switches

Assign Management S egment	2 Create Configuration mplate	on Te 3 Bind	Configuration Template
Binding Mode 🛛	D (2) 3	
Bind multiple devices / Bind a single device	Bind multiple devices	Bind a single device @(You S	earch template
Bind based on Multiplexer	can skip this step and bind the ter	nplate later)	
Default Template for the Whole Network	Template Name	Number of Associated es	Access Devic Action
	first	2	(4) View Edit
	second	0	View Edit
	third	0	View Edit
⑤ Jump to a certain pag	e Total 3 10/page ~	< 1 > Go to 1	
6 Return to the prev	ious step Previous F	inish 🕜	

(1) Binding multiple switches

On the **Bind multiple devices** or **Bind a single device** page, click Bind multiple devices. The **Excel Binding** page is displayed.

Excel Binding				×
▲ Upload Excel	Download Excel Ø Up to 500 data items	at a time		
① Upload an Excel file	② Download an Excel file			
Binding Result				
Device SN	Bind Configuration Template	Area Name	Location	Name
		No Data		
Total 0 10/page ~	< 1 > Go to 1 3 Ju	Imp to a certain page		S Bind multiple switches
			(4)	Cancel Bind

On the **Excel Binding** page, you can perform the following operations:

(1) Upload an Excel file: You can click
 will be displayed in the Binding Result pane.

to upload the switches to be bound. The binding results



Click Save . The bound devices will be displayed in the refreshed window.

Binding Based on the Aggregation Layer

Assign Management S egment	2 Create of mplate	Configuration Te	3 Bind C	onfiguration Template
Binding Mode 🛛 🖉	dd a distribution la	yer-based binding p	policy	
Bind multiple devices / Bind a single device	Rew access devi	ces connected to the aggreg	pation switch will be automation	tically matched to a template.
Default Template for the Whole Network	Policy Name	Multiplexer	④ Sea Template name	arch a binding policy Action ② Edit a binding policy
	first	172.29.17.4	first	 Edit Delete3 Delete a binding policy
	Total 110/pag⑤ Jump to a cert	e 💉 1 🔅 rtain page	Go to 1	
	Previou	is Finish		

(1) Adding or editing a binding policy based on the aggregation layer

You can click Add to switch to the **Add** page. On the **Add** page that is displayed, set configuration parameters and click save to save the configured policy.

One multiplexer can be bound to automatically matched to a templat.	to multiple templa e based on the n	ates. An access device from umber of ports.	the distribution layer c	an be
* Policy Name	Please Enter		0	
* Multiplexer	Device IP	Please Enter	0	
* Bound Configuration Template	Please Select	~	,	
			Cancel	Save

Note

Device IP: Run the **sh Ildp local-information** command on the aggregation switch to check the switch's IP address.

Bound Configuration Template: The number of ports in the configuration template must be different so that the switch can be automatically matched to a template based on the number of ports in the configuration template.

(2) Deleting a binding policy

Click Delete . A dialog box is displayed.

Are you sure you want to delete t	this template?	×	
	Cancel	ОК	

Click Click . The selected policy is deleted.

2. Deployment Log

The **Deployment Result** page shows the switch deployment results. You can filter and view the deployment results on this page. This page also contains the **Device List** link.

Deployment	Result @ After the de	ployment finishes, y	you can modify the configuration	on of a single device in	1 the Device List. Device List N	Modify the configuration	n of a single device		
C Refresh	.ast 7 days	✓ □ Only	show failures						Device SN Device IP Q V Export
Device IP	Device SN	Name	Area	Location	Management Status	Description	Model	Template Name	Template Source Updated at Action
66.1.1.2	G1QH1G7000288	66.1.1.2	defaultArea		Managed	Success. (Replace)	SF2910-4GT2XS- P	Custom Template	Custom Template 2022-10-09 17:11:56
Total 1									10/page ~ < 1 > Go to 1

3. Device List

Adding or Editing a Switch

Fuzhou ···	tua Managament ID Nama			
•	itus managementir Name	e Type Model Area	Location S/N	Config Action Status
Total 1	66.1.1.2 66.1.1.2	2 SWITCH SF2910 defaultA.	G1QH1G7000288	Action View Details Edit Connection Template Modify Modify Configuration Template Delete Device Update Ping Restart

• Querying a switch

You can query a switch by area or device type, or entering the switch's management IP address, name or SN in the search box.

Global	^	e	Add Dev		Advanced filter 💌	Enter devic	e IP, name
Global	>	defaultArea	CE	Device Type	All	~	Name

• Adding an area

dd		×
rea Name		I
This field is required.		I
lagaa aalaat a bighar lay	val area (Areas are arganized historichis	A like with a
'lease select a higher-lev igher-level area containi Global	vel area. (Areas are organized hierarchica ng all lower-level areas.)	۲ Illy, with a
lease select a higher-lev igher-level area containi Global	vel area. (Areas are organized hierarchica ng all lower-level areas.)	م Illy, with a

To add an area, click 💛 in the **Area** pane. The **Add** window is displayed.

On the Add window, enter the area name, select a higher-level area, and click

Add

• Adding a single switch

To add a single swi	tch, click	. The Add Dev	vice window i
Add Device			×
* Management IP			
Telnet Credential	Select	~	
Area Name	Please Select		
During the proces	ss of adding devices, the sy	ystem will try to connec	ct to
the devices through e	existing SNMP, Telnet temp	lates. Please make su	re
you have added the o	corresponding template		
Manage Connection	Templates		
		Add Can	cel

Enter the switch's management IP address, select the area name, and click Add. If the switch's IP address already exists or the switch is not reachable, the switch cannot be added.

• Importing the switch location

To import the location of a switch, you can click _______. The **Import Device Location** . The **Import Device Location** window is displayed.

Import Device Location			×
▲ Import 🛓 Download	Up to 500 data items at a time		
Pre-import information			
Device SN	Area Name	Location	Name
		No Data	
Tetel 0 40/2002 11			
Total U To/page V K			Cancel
Click	to download the temp	late (an Excel file). Set configu	ration parameters in the template.
Click for the import	mport the completed E	xcel file, and click	to import the switch location data.

• Editing multiple areas

Click next to **Device List**, select **Bulk Edit** from the **Bulk Actions** drop-down list box. The **Bulk Edit** window is displayed.

Bulk Edit		×
* Area	Please Select	
	Cancel Save	
Select an area	in the window, and click Save.	

• Querying switch details

To query switch details, click the **Action** column of the **Device List**, and then click ^{View Details} to switch to the **Details** page. On the **Device Info** page, you can view basic information about a switch, and synchronize the switch by clicking **Sync**. On the **Alarm** page, you can query and set alarm details. On the **Interface** page, you can query the switch's interface data.

← Details	
	Name 66.1.1.2
	Management IP 66.1.1.2
•	Device Type SWITCH
•••	Model
	Connectivity Unreachable (& Ping & Telnet & SNMP)
Device Info Alarm Interface	
Sync Time 2022-10-09 17:11:56	Sync
S/N G1QH1G7000288 MAC 00:d0:f8:22:33:f6	Vendor ruijie Hardware Version 1.00 Model Description sysOID Software Version
Area defaultArea	
← Detaits	Name 66.1.1.2 Management IP 66.1.1.2 Device Type SWITCH Model
Device Info Alarm Interface	Connectivity Unreachable (& Ping & Teinet & SNMP)
Select	Alarm Major Moderate Status Alarm Search
Date	Level Minor All V Event
☐ 2022 10.02 2022 10	00 All
2022-10-02 - 2022-10	Va Lind diam even u sediUl
Last Alarm Time Alarm	Level Number of Retries Alarm Event Description Status Action
	No Data
Total 0	10/page ~ < 1 > Go to 1

- Details								
		Name 66.1.1.2						
	1	Management IP 66.1.1	.2					
•	11	Device Type SWIT	СН					
		lodel						
	(Connectivity Unreach	able (% Ping % Telnet %	SNMP)				
Device Info Ala	arm Interface							
Refresh								
Port Type	Interface Name	Туре	Description	Status	Link Status	Rate	MTU	MAC
Copper Port (PoE)	Gi0/1	ethernetCsmacd	GigabitEthernet 0/1	UP	DOWN	1000M	1500	00:d0:f8:22:33:f6
Copper Port (PoE)	Gi0/2	ethernetCsmacd	GigabitEthernet 0/2	UP	DOWN	1000M	1500	00:d0:f8:22:33:f6
Copper Port (PoE)	Gi0/3	ethernetCsmacd	GigabitEthernet 0/3	UP	DOWN	1000M	1500	00:d0:f8:22:33:f6
Copper Port (PoE)	Gi0/4	ethernetCsmacd	GigabitEthernet 0/4	UP	DOWN	1000M	1500	00:d0:f8:22:33:f6
Fiber Port	Te0/5	ethernetCsmacd	TenGigabitEthernet 0/5	UP	DOWN	10000M	1500	00:d0:f8:22:33:f6

• Editing a connection template

To edit a connection template, click the Action column of Device List, and then click Edit Connection Template. The Edit Connection Template window is displayed. Select the SNMP and/or

	Save
Telnet template and click	
Temper template, and blok	

Edit Connection	Template	×
SNMP Template	defualt(weak password)	
Telnet Template	defualt(weak password)	
		e
🚺 To add tem	plate, please use Manage Connection Templa	ates
	Save	Cancel

• Editing the configuration (for switches that go online through the ZTP process only)

To edit the configuration of a switch, click the **Action** column of **Device List**, and then click ^{Modify}. The **Modify** window is displayed. Set configuration parameters. If you change the value of **Telnet Credential** of the switch, the system displays the message "After this configuration is saved, the configuration will be delivered to this switch. This operation may force a switch restart. Please perform this operation at service idle time." If you do not change it, the Telnet configuration will be delivered to the switch.

Modify			,
Here you can i modification, w	modify the configu which will not inter	ration template associated to the device. If the fere with the configuration of other devices asso	associated template is a public template, a personalized template will be generated after $\hfill \times$ sciated to this template.
Name	0	8.1.1.2	
Model			
Area Name	d	sfaultArea	
Location		Ø	
Telnet Credential	d	efualt(weak password) 🗸 🔮	
 SNMP Credential 	d	efualt(weak password) V	
* Local Web	d	efault	
Credential			
Port Global	Custom C	LI Commands	
Access Port	💦 Trunk P	ort	1 Uplink Port 🗋 Copper Po
 Please select the Port Config 	e port. Multiple port	s can be selected. (Note: To avoid Internet disconn	action, operation on the uplink port is prohibited.) Select All Clea
		 Please select the plane 	oort to be set on the device panel first
Port List			
Port Name	Port Type	VLAN	MAC Advertisement
Gi0/1	Access	10	Enable
Gi0/2	Access	10	Enable
Gi0/3	Trunk	Native Vlan: 1 Allowed Vlan: 1-100	Enable
Gi0/4	Trunk	Native Vlan: 1 Allowed Vlan: 1-100	Enable
Modifyin	g a config	juration template (for swit	Cancel Save
ick the Ac t	tion colun	nn of Device List , and the	en click Modify Configuration Template . The Modi
			Change

Configuration Template window is displayed. After selecting a template, click . The switch will start the login process again.

Modify Configu	ration Template	×
 Binding or operation at s 	changing template may force a device restart. Please perform this ervice idle time.	
Current Template	Custom Template	
Select Template	Select ~	
	Cancel Change	

• Deleting a switch

To delete a switch, you can click the Action column of Device List, and then click Delete Device . The

Confirm on Delete dialog box is displayed. Click



• Updating switch details

To update basic information about and interfaces of a switch, you can click the Action column of Device List,

and then click

• Ping a switch

To ping a switch, click the **Action** column of **Device List**, and then click ^{Ping}. After the ping test is successfully executed, the system displays the message "[XXX. XXX. XXX. XXX] is reachable" or "[XXX. XXX. XXX] is not reachable."

• Restarting a switch

To restart a switch, you can click the **Action** column of **Device List**, and then click ^{Restart}. A dialog box is displayed.

		×
Make sure to reboot the 66.1.1.2 device		
	Cancel	ок

Click . The switch will restart successfully after 2 to 3 minutes.

Managing Connection Templates of a Switch

- (1) Telnet Templates
- Querying a Telnet template

Shat Templete SNMD Templete	a al Web Tamplete	You can query a Telnet template by entering
einet lemplate SNMP lemplate Li	ocal Web Template	template name in the search box.
Add Telnet Template		Please enter the template name.
defualt(weak password)	defualt(strong password)	
0 device use this template.	0 device use this template.	
No zero-configuration template uses this	No zero-configuration template uses this template.	
template.		

• Adding a Telnet template (similar to editing a Tenlet template)

Manage Templates	Add Telnet Template × ② Set configuration parameters.	
Telnet Template SNMP T	* Template Name Please Enter.	
Add Telnet Template	* Username	Please
 Click < Add Telnet Ten 	nplate>	
defualt(weak password)	* Password	
0 device use this template.	Ø Super user password is used to enter the privileged mode (ordinary mode authority is very small,	
No zero-configuration template template.	usually need to enter)	
	* Superuser Password	
	③ Click <save> Save Cancel</save>	

• Deleting a Telnet template

A referenced Telnet template cannot be deleted. You can only delete a Telnet template after you have successfully disassociated switches from the Telnet template.

Ianage Templates		
elnet Template SNMP Template	Local Web Template	
Add Teinet Template		Please enter the template name.
defualt(weak password)	defualt(strong password)	
0 device use this template.	0 device use this template.	
No zero-configuration template uses this template.	No zero-configuration template uses this template.	
	Edit Delete	

(2) SNMP Templates

• Querying an SNMP template

elnet Template SNMP Template Lo	ocal Web Template	You can query an SNMP template by e the template name in the search box.
Add SNMP Template		Please enter the template name.
defualt(weak password)	defualt(strong password)	
SNMP v2	SNMP v2	
0 device use this template.	0 device use this template.	
No zero-configuration template uses this template.	No zero-configuration template uses this template.	
	Edit III Delete	

• Adding an SNMP template (similar to editing an SNMP template)

Manage Templates	Add SNMP Template		×	
Teinet Template SNMP T	* Template Name		② Enter the template name.	
Add SNMP Template	* SNMP Version	v2c ~		Please
① Click < Add SNMP Tem	plate>			
defualt(weak password)	* Read Community String		③ Enter the read and write community strings.	
SNMP v2	* Write Community String			
0 device use this template.				
No zero-configuration template template.		④ Click <save></save>	Save Cancel	
	Manage Templates Telnet Template SNMP T Add SNMP Template Click <add snmp="" template<br="">Click <add snmp="" template<br="">defualt(weak password) SNMP v2 0 device use this template. No zero-configuration template template. K</add></add>	Manage Templates Add SNMP Template Telnet Template SNMP T Add SNMP Template • Template Name Add SNMP Template • SNMP Version Click < Add SNMP Template	Add SNMP Template Teinet Template SNMP Template Add SNMP Template Add SNMP Template Add SNMP Template * SNMP Version Click <add snmp="" template=""> * Read Community String defualt(weak password) SNMP v2 0 device use this template. No zero-configuration template Et (a) Click <save></save></add>	Manage Templates Add SNMP Template Telnet Template SNMP T * Template Name ② Enter the template name. Add SNMP Template * SNMP Version • SNMP Version v2c ~ • Click <add snmp="" template=""> ③ Enter the read and write community string • Read Community String ③ Enter the read and write community strings. • Write Community String • Write Community String • Write Community String ④ Click <save></save></add>

• Configuring a Trap Server Address in the SNMP Template

	Manage Templates	Add SNMP Template			×	
	Telnet Template SNMP Template	* Template Name				
1	Add SNMP Template	* SNMP Version	v2c V			
	default(weakPassword)	* Read Community String		2		
	SNMP v2 0 device use this template.	* Write Community String				
	No zero-configuration template uses this template. Edit 💼 Delete	Trap server address		162 🕀		
			(3) Save	Cancel	

• Deleting an SNMP Template

The SNMP template that is associated with a switch or is a default template cannot be deleted.

lanage templates		
elnet Template SNMP Template	Local Web Template	
Add Teinet Template		Please enter the template name.
defualt(weak password)	defualt(strong password)	
0 device use this template.	0 device use this template.	
No zero-configuration template uses this template.	No zero-configuration template uses this template.	
	Edit Delete	

Managing the Switch Model Library

(1) Managing Switch Vendors

On the **Vendor Management** page, you can view vendors and their abbreviations supported in the model library supported by the system.

Vendor Management	Model Management	Series Management	Type Management
Please enter the vendor na	me. Query		
	Vendor Name		Abbrev.
	RUIJIE		RUIJIE
	UNKNOWN		UNKNOWN
	H3C		НЗС
	Microsoft		Microsoft
	Cisco		Cisco
	3Com		3Com
	Huawei		Huawei

(2) Managing Switch Models

On the Model Management page, you can view the model library supported by the system. You can also add, delete, and edit switch models.

• Querying a switch model

		Model Please enter a	a keyword to search.	System OID	
Type Se ② C	earch template ~ lick <query>. The q</query>	Query Clear uery results will be	displayed.		Add Delete
	Type Name	Vendor	Туре	System OID	Action
	S9620	RUIJIE	SWITCH(Support Zero-Co	2 1.3.6.1.4.1.4881.1.1.10.1.46	View
	S8606	RUIJIE	SWITCH(Support Zero-Co	2 1.3.6.1.4.1.4881.1.1.10.1.43	View
	S8610	RUIJIE	SWITCH(Support Zero-Co	2 1.3.6.1.4.1.4881.1.1.10.1.44	View ⊘ Edit ⊡ Delete

Adding a switch model

Home	Config	Add		×	luick Setup	English \vee 🛞 adn
	Vendor Ma	* Type Name	Please enter the type name.	Enter the model.		
	Vendor A	* System OID	Please enter the System OID.	Enter the OID.		
		* Series	Please select the series. \checkmark	Select the series. If the target seri add the series on the Series Mana	es is not fou gement pa	
	ijpe 📝	Туре	Set other configuration pa	rameters as required.		① Click Add. Add Delete
		Support Zero-	No ~)	Action
		Configuration Online			1.10	View
		Number of Copper	- 0 +		1.10	View
		Ports			1.10	View
		Management	_ 0 +		1.10	View
		Interfaces			1.10	View
		Number of Fiber Ports	- 0 +	(3) Click <save></save>	1.10	View
				Cancel	1.10	View

• Deleting a switch model

venac	or Management	Model Mana	agement Series Ma	anagement Type Manageme	ent	
Vendor	All	~	Model All	Syste	em OID	
Туре	All	~	Query Clear			③ You can delete one more models.
•	Type Nan	ne	Vendor	Туре	System OID	Action
(I) Sel	ect the model	to he delet	ed			
① Sel	ect the model S9620	to be delet	ed. RUIJIE	SWITCH(Support Zero-Co	1.3.6.1.4.1.4881.1.1.10.1.46	View & Edit
1 Sel	ect the model S9620 S8606	to be delet	ed. RUIJIE RUIJIE	SWITCH(Support Zero-Co	1.3.6.1.4.1.4881.1.1.10.1.46	View 2 Edit Delete 2 Click Delete. View 2 Edit Delete

Managing Switch Series

On the **Series Management** page, you can manage switch series, including querying, deleting, or adding a switch series.

• Querying a switch series

Vendor Mar	nagement Model Manag	ement Series Manageme	nt Type Managen	nent	
Series Name	Please enter the series nam	Vendor All	~ Query	Clear	
					Add Delete
	Series Name	Vendor	Туре	Predefined	Action
	UNKNOWN	UNKNOWN	UNKNOWN	Yes	l∕_ Edit
	DES-7200	RUIJIE	SWITCH	Yes	l∕_ Edit
	DGS-3610	RUIJIE	SWITCH	Yes	🖉 Edit
	OSM8500	RUIJIE	SWITCH	Yes	🖉 Edit
	RSR20	RUIJIE	ROUTER	Yes	🖉 Edit
	RSR10	RUIJIE	ROUTER	Yes	🖉 Edit

• Adding a switch series

Vendor Man	Add			×	
	* Series Name	Please enter the series name.	Enter the series name).	
Series Name	Ples * Vendor	Please select the vendor. \checkmark	Select the vendor.		1 Click Add.
	Ser * Type	Please select the device typ $ \checkmark$	Select the switch type.	ned	Action
	UN		③ Click Save. Cancel	Save	⊘ Edit
	DES-7200	RUIJIE	SWITCH	Yes	∂_ Edit
	DGS-3610	RUIJIE	SWITCH	Yes	🖉 Edit

• Deleting a switch series

A referenced series cannot be deleted.
Vendor Mar	nagement Mod	el Management	Series Management	Type Managemer	it	
eries Name	Please enter the seri	es narr Vendor	All	Query	Clear	② Click Delete. Add Delete
- D Select 1	Series Name	Vend	or	Туре	Predefined	Action
	UNKNOWN		WN	UNKNOWN	Yes	🖉 Edit
	DES-7200	RUIJI	E	SWITCH	Yes	🖉 Edit
	DGS-3610	RUIJI	E	SWITCH	Yes	🖉 Edit
	08148500	DUU	F	SWITCH	Vee	A Edit

Managing Switch Types

On the **Type Management** page, you can query switch types supported by the system.

Vendor Manag	ement Model Management	Series Management	Type Management
Type Code	Please enter the type code.	Query	
	Type Code		Type Name
	ROUTER		ROUTER
	SWITCH		SWITCH
	UNKNOWN		UNKNOWN
	LINECARD		LINECARD
	MODULE		MODULE
	HOST		HOST
	SECURITY		SECURITY

4. Upgrading a Switch

Upgrading the Switch Software

You can upgrade the bin file of the managed switches by clicking Bulk Update.

• Query the switch to be upgraded by entering the search criteria, and select the switch (only switches of the same model can be upgraded in a batch).

Filter	Model	Please enter a k	eyword to search.	Hardware Ve	All	~	Software Version	All		``	Clear	
You ca More	n query a swi	tch by enter	ing the search c	riteria.								
You ca	an also query	a switch by	entering the sw	itch's mana	gement IP	addre	ss or name.				Bulk Update	Э
① Sele	Management IP ect the switch	Name lies to be upg	Vendor graded.	Model	Hardware on	Versi	Software Versi on		Area	② Clicl	< <bulk upda<br="">Action</bulk>	te>
-			-		No Data							
Total 0								10/page	~ <	1 >	Go to 1	

• Upload the bin file and start upgrade. This operation has potential risks. Proceed with caution.

Device List:						
Management IP	Name	Model	Area	Hardware Version	Software Version	Connectivity
66.1.1.2	66.1.1.2	SF2910-4GT2XS-P	defaultArea	1.00	SF29_RGOS 11.4(1)B	₅ Telnet
Choose an upgrade packa Select Upgrade Package	age: ① Select th	ne bin file.		② Th the T	ne upgrade can succe Telnet connectivity is	eed only when normal.
			③ Click <d< td=""><td>elivered to 1devices</td><td>> Delivered to1devices</td><td>Cancel</td></d<>	elivered to 1devices	> Delivered to1devices	Cancel

• Wait for the upgrade process to finish. If you exit the page and open the upgrade page again, you can still view the upgrade progress.

5. Performing Backup

Performing Backup and Recovery

With configuration backup and recovery, you can manage the configurations of the managed switches.

Due to the limited storage space of the switch, the system allows a maximum of five records for a single switch.

Q Area	Management IP:66.1.1.2 Manufacturer:ruijie	Backup configuration	Restore This Backup
Global ✓ 66.1.1.2 ① Select the switch you to back up or view. Total 1 < 1	Current Config Reading configuration····Please wait. u want ② Click < Manually Back Up> if you want to back up the configuration.	③ You can select No Backu and view configuration backup in a given period of time.	♥④ Click <restore This Backup> to restore the configuration.</restore
	The actual configuration of the selected switch is displayed here in real time.		

6. Replacing a Switch

Choose **SOE** > **Replacement**. The **Replacement** page is displayed.

Ruijie INC	Home Configuration \sim O&M \sim	SOE ~ System ~	Quick Setup English 🗸 🛞 admin •
Replacement	Replace an Access Device Completed Completed Completed	Deployment O&M Deployment Wizard Alarms Deployment Log	Device Name Q Settings is detected.
	Total 0		10/page 🗸 1 > Go to 1
		Ruijie Networks Co., Ltd. © 2022 税捷网络股份有限公司 Copyright (2221, Technical support phone number: 4008111000

If a switch fails, an O&M engineer can replace the faulty switch with a new one by installing the optical fiber or network cable connected to the faulty switch into the new switch.

Choose **SOE** > **Deployment Log**. The **Deployment Log** page is displayed.

Device IP Device SN Device List Pescripting Model Template Template 06.1.1.2 G1QH1G7000288 Backup Backup Backup Backup G1QZSS- Custom Template Template Template Template Custom	
66.1.1.2 G1QH1G7000288 Backup Replacement Backup Total 1 Diagram Total 1 Diagr	Device IP Device SN Device List Device List Name Source Upgrade
	66.1.1.2 G1QH1G7000288 Backup Backup Replacement Replace P Template Templat
	Total 1 10/page ~ < 1 > Go to

You can view the replacement results on the **Deployment Log** page.

୍ଦ Refresh	Last 7 days	✓ □ On	ly show failures	5			Device SN Dev	vice IP	Q 7	Export
Device IP	Device SN	Name	Area	Location	Management Status	Descrip on	oti Model	Template Name	Template Source	Updatec
66.1.1.2	G1QH1G7000288	66.1.1.2	defaultAre a		Managed	Succes (Replac	SF2910- s. 4GT2XS- ^{xe)} P	Custom Template	Custom Template	2022-10
Total 1							10/page V	< 1	> Go to	0 1

Deployment Result
After the deployment finishes, you can modify the configuration of a single device in the Device List. Device List. Modify the configuration of a single device

7. Configuring the Alarm Module

You can view, export, and handle alarms of the switches managed by the system in **Alarm Module**, and set the alarm storage time and expiration time.

1. Viewing alarms

AI	arm				Qu	Query alarms by the switch's IP addres			ress. Ala	rm Settings
	Alarm Level 📃 All 📃 M	Major Moo	lerate M	inor	P	lease enter the m	nanagement IP or	name. Q	Advanced filter	- Export
	Filter alarms by the	alarm severi	ty.						Select one or from the <ad< th=""><th>more items</th></ad<>	more items
	Last Alarm Time 🗢	Alarm Level	Number of Re	Name	Device IP	Device ID	Alarm Event	Description	drop-down> Status	list box. Action
	2022-08-29 08:54:36	Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details
	2022-08-29 08:49:36	Moderate	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	接口【Te0	Expired	View Details
	2022-08-28 23:27:53	Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details
	2022-08-28 23:22:45	Moderate	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	接口【Te0	Expired	View Details
	2022-08-27 23:37:07	Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details
	2022-08-27 23:31:07	Moderate	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	接口【Te0	Expired	View Details

2. Exporting alarms

A	larm									Alarm Settings	
	Alarm Level All	Major Mo	oderate M	inor		Please enter the management IP or name. Q Advanced filter V					
								Download	l alarms in	to an Excel file.	
	Last Alarm Time 🗢	Alarm Level	Number of Re	Name	Device IP	Device ID	Alarm Event	Description	Status	Action	
	2022-08-29 08:54:36	e Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details	
	2022-08-29 08:49:36	😑 Moderate	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	接口【Te0	Expired	View Details	
	2022-08-28 23:27:53	Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details	
	2022-08-28 23:22:45	Moderate	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	接口【Te0	Expired	View Details	
	2022-08-27 23:37:07	Major	0	66.1.1.2	66.1.1.2	G1QH1G	Optical M	The optica	Expired	View Details	

3. Viewing and handling alarms

Alarm Details	Major Madarata	Minor	Please	enter the management IP or name	Advanced filter	Expo
Basic Info						Action
Alarm Level:		Device SN:		Device IP: 66.1.1.2		
Area:		Location:				
Event:	Optical Module Error Rec	Description:	The optical module on the in terface [Te0/6] recovers fro m the error of [High Rx Pow er Warning]		E	View Details
			er warningj.		Ь	View Details
Alarm History						
Last Alarm Time:	2022-08-29 08:54:36	First Alarm Time:	2022-08-29 01:42:14	Number of Retries: 0	t	View Details
Suggestions						
Reason:	The optical module on the int	erface [Te0/6] recov	vers from the error.		н	View Details
Impact:	The optical module returns to	normal.				
How to Fix:					-	View Details
Handling					1	view Details
Status						
Commont.					b	View Details
Comment:						
2022-08-26 22:15:48	B Maior 0	66 1 1 2	2 66 1 1 2 G1Q	H1G Optical M The o	ptica Expired	View Details

4. Setting the alarm retention period

To save the switch's storage space, set a proper alarm retention period.

Alarr	Set Alarm Retention I	Days					×	Adve	Alarm Settings Set Alarm Retention Days
La	Set Alarm Retention	on Days 90	Ƴ ③ Chai	nge the alarm r	etention p	period.	b	us	Set Alarm Expiration Time Action
				(4) Confirm	Cancel	Click <confirm> to save the change</confirm>			

5. Setting the alarm expiration time

Alarr	Set Alarm Expiration Time	×	Adve	Alarm Settings Set Alarm Retention Days Out Alarm Excitation Term
	Set Alarm Expiration Time			
La	* Pending alarms will be marked as "expired" after 7 days. 3	tu	15	Action
	(a) Confirm Cancel			

1.3.8 System

- 1. License
- Sample License

Ruíjie INC	Home Configuration v O&M v System v	Quick Setup English 🗸	admin *
License	Import License		
	To apply a license for this device, you will need the license serial number of the device: Chassis1: G1RW21P000028 Copy Procedure:Step 1 Collect license information: (1) License code; (2) Device SN Step 2 Visit https://pa.rujie.com.cn/main.wreless.jsf, enter the license code and device Si/N to generate a license file and download the file. Step 3 Import the downloaded license file and complete the licensing process.		
	License Type Permanent License Licensed Product RG-48VS-LIC License Term Indefinite Duration License Code RG-48VS-LIC00000003173978 License SIN G1RW21P000028 Chassis 1	1	Remove

• Importing a license

Procedure:

Step 1: Collect the license information, including the license code and license SN.

Step 2: Visit https://pa.ruijie.com.cn/main_wireless.jsf. Enter the license code and license SN to generate a license file, and download the license file.

Step 3: Import the downloaded license file.

Ruíjie INC	Home Configuration × O&M × System ×	Quick Setup English \vee 🛞 admin •
License	Import License Import License × To apply a license for this device, you will need Import License × Procedure Step 1 Collect Kornen information (Step 2 Visit https://pa.rujie.com.cn/ Step 3 Import the downloadd licen Select Import Only, lic file can be upleaded. There is no file currently There is no file currently Import	
	License Type Permanent License Licensed Product RG-48VS-LIC License Term Indefinite Duration License Code RG-48VS-LIC000000031738/78 License S/N G1RW21P000028 Chassis 1	Remove

Removing a license

Ruijie INC	Home Configuration - O&M - System -	Quick Setup English \vee 🛞 admin+
License	Import License	
	Or capply a license for this device, you will need the license senial number of the device. Chasses 1: G1RW21P000028 Copy. Procedure Step 1 Collect license information: (1) License code, (2) Device SN Site 2 Voist https://pa.najee.com.ch/main_were/ess.jfl_enter the licenses code and device SNN to generate a license file and download the file. Site 3 Import the downloaded license file and complete the license groups. License Type Permanent License Licensed Product RG-48VS-LUC License Term Indefinite Duration License Code RG-48VS-LIC00000003173978 Error For Permanent License Product RG-48VS-LUC License Term Indefinite Duration License Type Permanent License View of the license result in system failure. Are you sure you want to continue? No, may be late: Yes, remover new	Romove

2. Admin Account

In addition to the admin account that comes with the eWeb management system, you can also create and maintain other accounts (only the network administrator has this privilege).

1. Adding an account

Add			
① Click <add></add>	Add	② Enter the username.	Action
	* Account:	You are advised to use your phone number as login account which is easy to remember.	🖉 Edit 💼 Delete
Total 1 10/page V		③ Change the password.	
	* New Password:	IR52gtm A random password has been generated for you. You can change this password if necessary.	
		() Click < Confirm > Confirm Cancel	

2. Changing the password

Add	Edit	×	
	Edit admin		Action
			🖉 Edit 🛅 Delete
	* Old Password:	② Enter the old password.	
Total 1 10/page V			
	* New Password:	③ Enter a new password.	
		(a) Click < Confirm Cancel	

3. Deleting an account (the admin account cannot be deleted)

Add			
	Username	Role	Action
	admin	Super Adminis	strator 🖉 Edit 🗊 Delete
Total 1 10/page	✓ < 1 > Go to 1		
	Conf	irm on Delete	×
	Are y	ou sure you want to delete the account ?	
		② Click <ok> Cancel</ok>	ок

3. Certificates and Registration

Upload Certificate	
Certificate file: (crt format file) Upload
Certificate private key: (.	key format file) Upload
	Issued by: OU=localhostC=CN
	Expiry Time: 2018-02-01-2028-01-30
ICP License Manage	ement
ICP License Number:	锐趣网络股份有限公司 Copyright @2021
Save	

4. Operation Log

The operation log records users' key operations. You can query the operation log based on the search criteria.

Operation Log							
Time 🗮 Start Date	to End Date	Username Please en	ter the username.	Login IP	Please enter the IP address.	Туре	Please enter the operation ty $\ \!$
Log Details Please Enter	Que	Clear					
Time	Username	Login IP	Module	Туре	Log Detai	Is	
2022-09-30 10:39:07		172.26.1.107		Login	Operation	succeeded.	
2022-09-30 08:50:45		172.26.1.107		Login	Operation	succeeded.	
2022-09-30 08:50:22		172.26.1.107		Login	The username or password is incorrect.		
2022-09-30 08:50:11		172.26.1.107		Login The username or password is incorrect.			
2022-09-30 08:49:44		172.26.1.107		Login	The usern	ame or passw	vord is incorrect.
2022-09-29 18:30:30		172.26.1.107		Login	Operation	succeeded.	
2022-09-29 16:33:13		172.26.1.107		Login	Operation	succeeded.	
2022-09-22 09:30:48		10.104.23.41		Login	Operation	succeeded.	
2022-09-06 19:34:25		10.104.23.41		Login	Operation	succeeded.	
Total 9						1	0/page ~ < 1 > Go to 1

5. Performing Data Backup and Import

• Performing data backup

You can click **Export** to download the database file with the suffix .db.

Ruíjie INC	Home Configuration V O&M V System V	Quick Setup English V (2) admin •
Data Backup and Im	Data Backup Data Import	
	Export this Service's Current Data	

Importing data

The suffix of the imported database file must be .db, and the imported file version be the same as or earlier than the current database version.

Ruíjie INC	Home Configuration ~ O&M ~ System ~	Quick Setup English V (2) admin •
Data Backup and Im	Data Backup Data Import	
	Do not close or refresh this page during importing. Otherwise, the import will fail. File Name Select No file is selected. Import	

1.4 Appendixes

1. About the INC-EMB License

Difference Between the INC-EMB License and the INC-STD License

The INC-EMB license runs on the switch and is a device license, while the INC-STD license is an application software license.

Information on the License

- Device SN
- License code

Licensing Procedure

- You will be given a license code after purchasing a license.
- You must obtain the device SN on the switch by choosing System > License.

Ruíjie INC	Home Configuration \checkmark O&M \checkmark SOE \checkmark System \checkmark	Quick Setup English 🗸 🛞 admin •
License	Import License	
	To apply a Romee for this device, you will need the Romee serial number of the device: Chassis1(Current Chassis1) CH1MB45900003 / Chassis2: MACC567090325 Copy Procedure:Step 1 Collect Bornes information: (1) License code; (2) Device SN Step 2 Valih This; //an, will, com convina, viewaines), enter the Romee code and device SN to generate a Romee file and download the Bie, Step 3 Import the downloaded Icenses Bie and complete the Romeing process.	
	License Type Permanent License Licensed Product RG-INC-EMB-SW-AMAINT License Term Indefinite Duration License Code RG-INC-EMB-SW-AMAINT00000057333904 License SM GTIPVID49000038 Chassels 1	Remove
	License Type Permanent License Licensed Product RG-INC-EMB-SW-AMAINT License Term Indefinite Duration License Code RG-INC-EMB-SW-AMAINT00000057275217 License SM MACC567893125 Chassis 2	Remove
	Dalla Makada As. 141 A 2022 L BREARDARD R Canada A 2022 Tabalad annara abara andar 40011100	
	Nuije Networks Co., Ltd. © 2022 #22594884554949229 Copyright @2021, technical support phone number: 4008111000	

• Visit https://pa.ruijie.com.cn/main_wireless.jsf (Ruijie Networks's PA system), and enter the license code and switch SN on the PA system to generate a license file.

RG-PA 锐捷产品授权系统								
	^	授权信息查询	临时授权	授权解除				
位置: 首页								
◎ 正式授权绑定								
*邮件地址:			注意	: 请填写正确邮箱地址,接收lic授权文件用				
* 客户名称:								
* 设备SN(序列号):		无	线查看实物图	<u>查看命令图</u>				
产品线:								
产品系列:								
产品名称:								
授权码1: 输入设备SN和授权码 完成	[时,注意区分大小]	写	新増					

- Enter the license SN and license code, and click Finish to download the license file.
- Choose System > License, click Select to select the downloaded license file with the suffix *.lic from your local PC, and click Import.

Home Configuration - O&M - SOE - System					
Teport Lonnor					
pepty a locance for this device, you will need the locance sentil many contend by 1 Object Locance information (1) Locance on (2) Daw Step 2 Valit they have a locance file and complete this Step 3 Import the downtaaded Locance file and complete this set Type Permanent License Elevensed Product re Code RG RVC-EMIS SW-AMMANT0000057735904 RG-INC-EMIS SW-AMMANT License Tem Incidente Duration we Code RG-RVC-EMIS SW-AMMANT0000057735917 License SM MACC6705025 Chassis 2	Ranow				
se i	Y A Komes for this decision, you will meet the Komes is water more than a formation. (1) License is and complete his the set is and complete his the set is and complete his and complete his the set is and complete his the s				

• You can view or remove the imported license on the **License** page in the eWeb management system. You can view or remove other licenses in addition to the INC-EMB licenses on the **License** page.

Ruíjie INC	Home Configuration v O&M v SOE v System v	Quick Setup English \vee 🛞 admin 🕶			
License	Import License				
	To apply a license for this device, you will need the license serial number of the device: Chassis (Current Chassis) G1PVB49000038 / Chassis 2. MACC567890325 Copy Procedure Step 1 Cellect license information: (1) License code; (2) Device SN Step 2 Volit https://pa.rulija.com.cr/main_wiveless.jd; enter the license code and device SN to generate a license life and download the life. Step 3 Import the downloaded license life and complete the licensing process.				
	License Type Permanent License Licensed Product RG-INC-EMB-SW-AMM/NT 00000057339064 License Sin G1PV/E40000328 Chassis 1	Remove			
	License Type Permanent License Licensed Product RG-INC EMB-SW-AMMNT License Term Indefinite Duration License Code RG-INC-EMB-SW-AMMNT00000057275217 License SM MACCIG77890225 Chassis 2	Remove			