

Reyee Series Implementation Cookbook

Cookbook



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Preface

Intended Audience

This document is intended for:

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

Technical Support

• The official website of Ruijie Reyee: <u>https://www.ruijienetworks.com/products/reyee</u>

Conventions

1. GUI Symbols

Interface symbol	Description	Example
Boldface	 Button names Window names, tab name, field name and menu items Link 	 Click OK. Select Config Wizard. Click the Download File link.
>	Multi-level menus items	Select System > Time.

2. Signs

This document also uses signs to indicate some important points during the operation. The meanings of these signs are 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.



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

1 Instruction

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



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

3. Instruction

This manual is used to guide users to understand the product, install the product, and complete the configuration.

The example of the port type may be different from the actual situation. Please proceed with configuration according to the port type supported by the product.

The example of display information may contain the content of other product series (such as model and description). Please refer to the actual display information.

The routers and router product icons involved in this manual represent common routers and layer-3 switches running routing protocols.

Contents

Preface	I
1 Product Introduction	1
1.1 Reyee Gate Series Router	1
1.1.1 Product List	1
1.1.2 LED Indicator	2
1.1.3 Button	3
1.2 Reyee ES Switch	3
1.2.1 Product List	3
1.2.2 LED Indicator	4
1.2.3 Button	4
1.3 Reyee NBS Switch	5
1.3.1 Product List	5
1.3.2 LED Indicator	6
1.3.3 Button	7
1.4 Reyee Access Point	7
1.4.1 Product List	8
1.4.2 LED Indicator	9
1.4.3 Button	10
1.5 Reyee Mesh Wi-Fi Router	11
1.5.1 Product List	11
1.5.2 LED Indicator	12
1.5.3 Button	13
1.6 Reyee Wireless Bridge	13

1.6.1 Product List	14
1.6.2 LED Indicator	14
1.6.3 Button	15
2 Device Management	16
2.1 Logging in	16
2.1.1 Case Demonstration	16
2.2 Configuring Password	17
2.3 Upgrading	18
2.4 Backing up and Resetting	18
2.5 Restoring Factory Settings	19
3 Getting Start	20
3.1 Preparing for Installation	20
3.1.1 Safety Suggestions	20
3.1.2 Installation Site Requirement	21
3.1.3 Network Planning	22
3.2 Quick Provisioning	23
3.2.1 Quick provisioning via Ruijie Cloud APP	23
3.2.2 Quick provisioning via Reyee EWeb	38
4 Configuration	42
4.1 Reyee EG Series Router Configuration	42
4.1.1 Network Access Setting	42
4.1.2 Wireless Setting	46
4.1.3 Switches Setting	64
4.1.4 System Setting	65

4.1.5 Diagnostics	74
4.1.6 WAN Load Balance	80
4.1.7 Port VLAN	83
4.1.8 VPN	86
4.1.9. Port Mapping	136
4.1.10. Dynamic DNS	138
4.1.11. Authentication	141
4.1.12. Behavior	154
4.1.13. Flow Control	162
4.1.14. Security	164
4.1.15. PPPoE Server	167
4.1.16. IPTV	172
4.1.17. UPnP	175
4.2 Reyee ES Series Switches Configuration	177
4.2.1 System Settings	177
4.2.2 Switch Settings	181
4.2.3 VLAN Settings	188
4.2.4 QoS Settings	190
4.2.5 PoE Settings	192
4.3 Reyee NBS Series Switches Configuration	193
4.3.1 VLAN	193
4.3.2 Ports	199
4.3.3 L2 Multicast	225
4.3.4 L3 Interfaces	239

4.3.5	Security	264
4.3.6	Advanced	298
4.3.7	Diagnostics	327
4.3.8	System	336
4.4 Reyee	Access Point Configuration	345
4.4.1 \	Wireless Configuration	345
4.4.2	Basic Configuration	358
4.4.3	Advanced Configuration	362
4.4.4 (Operation and Maintenance	364
4.5 Reyee I	Mesh Wi-Fi Configuration	371
4.5.1 I	Network Setting	371
4.5.2	Maintenance	409
4.6 Reyee \	Wireless Bridge Configuration	419
5 Advanced S	olution Guide	436
5.1 Reyee F	Flow Control Solution	436
5.1.1	Application Scenario	436
5.1.2 (Configuration Case	436
5.2 Reyee (Cloud Authentication Solution	444
5.2.1 \	Norking Principle	444
5.2.2	Application Scenario	444
5.2.3 (Configuration Case	444
5.3 Reyee (Guest WiFi Solution	452
5.3.1 \	Norking Principle	452
5.3.2	Application Scenario	453

5.3.3 Configuration Case	453
5.4 Reyee SON—Self-Organizing Network	467
5.4.1 The principle of Reyee SON	467
5.4.2 The configuration of Reyee SON	470
5.4.3 The troubleshooting of SON	472
5.5 Reyee Mesh Solution	472
5.5.1 Application Scenario	472
5.5.2 Configuration Case	473
5.6 Reyee Economic Hotel Network Solution	477
5.6.1 Application Scenario	477
5.6.2 Configuration Case	477
6 Reyee FAQ	489
6.1 Reyee Password FAQ ((collection))	489
6.2 Ruijie Cloud Reyee EG authentication FAQ((collection))	489
6.3 Reyee Wireless Repeater FAQ ((collection))	489
6.4 Reyee EST Bridge FAQ ((collection))	489
6.5 Reyee Parental Control FAQ ((collection))	489
6.6 Reyee Mesh FAQ ((collection))	489
6.7 Reyee IPTV FAQ ((collection))	489
6.8 Reyee Authentication FAQ ((collection))	489
6.9 Reyee Behavior Strategy FAQ ((collection))	489
6.10 Reyee DDNS FAQ ((collection))	489
6.11 Reyee VPN FAQ ((collection))	489
6.12 Reyee Flow Control FAQ((collection))	489
6.13 Reyee Guest WiFi FAQ ((collection))	489

6.14 Reyee Wireless Configuration FAQ ((collection))	489
6.15 Reyee Self-Organizing Network (SON) FAQ ((collection))	489
6.16 Reyee series Devices Parameters Tables	489
6.17 Reyee Parameter Consultation FAQ ((collection))	489
7 Appendix: Monitor	490
7.1 Reyee Gate Series Router Monitor	490
7.1.1 Device Info	490
7.1.2 Wi-Fi information	492
7.1.3 Net Status	493
7.1.4 Real-Time Flow (Kbps)	493
7.1.5 Online Clients	493
7.2 Reyee ES Switch Monitor	494
7.2.1 Homepage	494
7.2.2 Monitoring	495
7.3 Reyee NBS Switch Monitor	498
7.3.1 Home	498
7.3.2 Monitor	501
7.4 Reyee Access Point Monitor	513
7.4.1 Memory Usage	513
7.4.2 Device Status	513
7.4.3 AP Working Mode	514
7.4.4 View SON Status	515
7.4.5 Online Clients	515
7.4.6 Device Info	516

7.4.7 Wireless Info	516
7.4.8 Interface Details	516
7.5 Reyee Mesh Wi-Fi Router Monitor	516
7.5.1 Overview	516
7.5.2 Endpoints	517
7.5.3 Internet	519
7.6 Reyee Wireless Bridge Monitor	520
7.6.1 Overview	520
7.6.2 WDS Group Info	523

1 Product Introduction

1.1 Reyee Gate Series Router

Reyee RG-EG series Router is a cloud managed router designed for villas and smart home, restaurant, small offices, homestay hotel. it is affordable, small and easy to use, but at the same time comes with 500M-600M bandwidth and supporting up to 200 terminals.

RG-EG series Router realizes the industry-leading auto-discovery and auto-networking features for gateways, switches and wireless.

RG-EG series can perform per-port VLAN configuration to achieve port isolation, and integrate with smart flow control to achieve comprehensive network planning and perform local and remote network diagnosis



1.1.1 Product List

Model	10/100/1000 Base-T Ethernet Port	Maximum number of clients	Recommended bandwidth	Management capacity
RG-EG105G-P 5(Support POE)	Up to 100	500M asymmetric bandwidth (flow control disabled)	In AC mode, the maximum management capacity is 300	
	S(Support POE)	concurrent clients	300M asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 32
RG-EG105G-P	5(Support POE)	Up to 100 concurrent clients	600M asymmetric bandwidth (flow control disabled)	In AC mode, the maximum management capacity is 300
V2			500M asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 32
RG-EG105G	5	Up to 100 concurrent clients	500M asymmetric bandwidth (flow control	In AC mode, the maximum management

			disabled)	capacity is 300
			300M asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 32
RG-EG105G	5	Up to 100 concurrent clients	600M asymmetric bandwidth (flow control disabled)	In AC mode, the maximum management capacity is 300
V2			500M asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 32
	E	Up to 100 concurrent clients Recommended	500M asymmetric bandwidth (flow control disabled)	In gateway mode, the maximum management capacity is 32
KG-EG105GW 5	5	number of wireless terminals: 60	300M asymmetric bandwidth (flow control enabled)	
	10	Up to 200	1Gbps asymmetric bandwidth (flow control disabled)	In AC mode, the maximum management capacity is 500
KG-EG210G-E	10	concurrent clients	1Gbps asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 150
RG-EG210G-P	10(Support POE)	Up to 200 concurrent clients	600M asymmetric bandwidth (flow control disabled)	In AC mode, the maximum management capacity is 500
			500M asymmetric bandwidth (flow control enabled)	In gateway mode, the maximum management capacity is 150

1.1.2 LED Indicator

LED Indicator	Description
SYS	Blinking green (0.5Hz): The device has started up, but is not connected to the Ruijie Cloud.
	Solid green: The device has started up, and is connected to the Ruijie Cloud.
	Solid green: the port is connected at 10/100/1000 Mbps
Speed	Off: the port is not connected at 10/100/1000 Mbps.

1.1.3 Button

Button	Description	
Reset	Press reset button until the status LED blinks green at 10Hz to restore the	
	device to the factory default setting.	
	The default management IP address is http://192.168.110.1.	

1.2 Reyee ES Switch

Ruijie Reyee smart surveillance switches offer a variety of port options to meet the needs of video surveillance networks of different scales. Ruijie Reyee smart surveillance switches support full-power PoE output to ensure that all cameras can be powered simultaneously when connected to the switch at maximum capacity. In addition, Ruijie Real-easy Series smart surveillance switches provide simple and easy-to-use management features while offering plug and play with default factory configuration, which can quickly locate the surveillance network faults, initiate PoE port restart, perform VLAN configuration, etc. Ruijie Cloud app and Ruijie Cloud platform remote management is also supported, making the operation and maintenance of the surveillance network easier and more convenient, while reducing operation and maintenance costs.



1.2.1 Product List

RG-ES200 Series Switches

Model	10/100 Base-T Auto-sensing Ethernet Port	10/100/1000 Base-T Auto-sensing Ethernet Port	1000Base-X SFP Port	Console Port
RG-ES205GC-P	N/A	5 (Ports 1-4 support PoE+/PoE)	N/A	N/A
RG-ES209GC-P	N/A	9 (Ports 1-8 support PoE+/PoE)	N/A	N/A
RG-ES218GC-P	N/A	16 (Support PoE+/PoE)	2	N/A

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RG-ES226GC-P	N/A	24 (Support PoE+/PoE)	2	N/A
RG-ES224GC	N/A	24	N/A	N/A
RG-ES216GC	N/A	16	N/A	N/A

The SPF ports cannot be downward compatible with 100Base-FX. 1000Base-T is compatible with 100Base-TX and 10Base-T in the downlink direction.

1.2.2 LED Indicator

LED	State	Meaning
	Off	The switch is not receiving power.
System status LED	Blinking green	The PoE power exceeds the power of the entire device (370 W). The new connected PD cannot be powered up due to insufficient power. The switching function is operational.
	Solid green	The switch is operational.
	Off	PoE is not enabled.
RJ45 port PoE status LED	Solid green	PoE is enabled. The port is operational.
	Blinking green	Indicates PoE overload.
	Off	The port is not connected.
1000Mbps RJ-45 port	Solid green	The port is connected at 10/100/1000 Mbps.
	Blinking green	The port is receiving or transmitting traffic at 10/100/1000 Mbps.
	Off	The port is not connected.
SFP port status LED	Solid green	The port is connected at 1000 Mbps.
	Blinking green	The port is receiving or transmitting traffic at 1000 Mbps.

1.2.3 Button

Botton	Description
Port mode LED	When the button is turned to the left position (Mode 1), the LED indicates the switching status of the port: when the LED is solid green, it indicates that the link is up; when the LED blinks green, data is being transmitted or received.
Switch-Over button	When the button is turned to the right position (Mode 2), the LED indicates the PoE status of ports: when the LED is solid green, it indicates that the PoE-supported ports are supplying power; when the LED blinks green, the power of the ports is overloaded.

	The switch reboots after the reset button is pressed for less than 2 seconds.
System reset button	The switch restores the default factory settings after the reset button is pressed for more than 5 seconds (until the status LED blinks).

1.3 Reyee NBS Switch

Reyee RG-NBS3100 series of managed switches are Reyee's 4 switches tailored for SME customer applications, which can meet the different levels of network access needs of SME customers. Covering basic VLAN division and advanced security features such as ACL, etc. The model with the suffix '-P' is a model that supports PoE output, and can meet the PoE power supply requirements of wireless APs, digital cameras and other devices in various occasions.

RG-NBS3200 series switch is a new generation of high-performance, strong security and integrated multi-service layer 2 Ethernet switch launched by Reyee. This series of switches adopts an efficient hardware architecture design, providing larger entry specifications and faster Hardware processing performance, more convenient operation experience. The RG-NBS3200 series provides flexible Gigabit access to 10 Gigabit uplink ports. The entire series of switches all have 4-port 10 Gigabit optical and high-performance port uplink capabilities.

Ruijie RG-NBS5100&5200 Series Switches are the next-generation high-performance, high-security and multi-service Layer 3 Ethernet switches. Adopting an efficient hardware architecture design, this switch series provides larger MAC address table size, faster hardware processing performance, and more convenient operating experience. RG-NBS5100 series provides Gigabit access and Gigabit uplink, while RG-NBS5200 series provides Gigabit access and 10G uplink ports. Every switch of this series offers 4 fixed 10G fiber ports with high-performance uplink capability.

RG-NBS5100&5200 series switches provide comprehensive end-to-end QoS as well as flexible and rich security settings for small and medium-sized networks at an extremely high price-performance ratio to meet the needs of high-speed, secure and smart enterprise networks.



1.3.1 Product List

Model Iso root for the formed and the for	Model 10/100/1000 Base-T Ethernet Port	1000Base-X SFP Port	10G SFP+ Port	Console Port	Power Supply
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RG-NBS3100-2 4GT4SFP	24	4	N/A	N/A	Single
RG-NBS3100-2 4GT4SFP-P	24 (Support PoE+)	4	N/A	N/A	Single
RG-NBS3100-8 GT2SFP	8	2	N/A	N/A	Power adapter
RG-NBS3100-8 GT2SFP-P	8 (Support PoE+)	2	N/A	N/A	Single
RG-NBS3200-2 4GT4XS	24	N/A	4	N/A	Single
RG-NBS3200-2 4SFP/8GT4XS	8 (combo)	24	4	N/A	Single
RG-NBS3200-2 4GT4XS-P	24 (Support PoE+)	N/A	4	N/A	Single
RG-NBS3200-4 8GT4XS	48	N/A	4	N/A	Single
RG-NBS3200-4 8GT4XS-P	48 (Support PoE+)	N/A	4	N/A	Single
RG-NBS5100-2 4GT4SFP	24	4	N/A	N/A	Single
RG-NBS5100-4 8GT4SFP	48	4	N/A	N/A	Single
RG-NBS5200-2 4GT4XS	24	N/A	4	N/A	Single
RG-NBS5200-2 4SFP/8GT4XS	8 (combo)	24	4	N/A	Single
RG-NBS5200-4 8GT4XS	48	N/A	4	N/A	Single

SFP port is downward compatible with 100Base-FX.

1000Base-T is downward compatible with 100Base-TX and 10Base-T.

Combo port consists of one 1000Base-X SFP port and one 10/100/1000Base-T Ethernet port. That is, only one port of them is available at a particular time.

1.3.2 LED Indicator

LED	State	Meaning
	Off	The switch is not receiving power.
System status LED	Blinking green (0.5 Hz)	The switch is running, but the alarm of insufficient PoE power prompts.
System status LED	Blinking green (10Hz)	The switch is being upgraded or initialized.
	Solid green	The switch is connected to Ruijie Cloud.
10/100/1000Page T	Off	The port is not connected.
TU/ TUU/ TUUUBase-T	Solid green	The port is connected at 10/100/1000 Mbps.
LED	Blinking green	The port is receiving or transmitting traffic at 10/100/1000 Mbps.
DI45 part DaE atatua	Off	PoE is not enabled.
RJ45 port POE status	Solid green	PoE is enabled. The port is operational.
LEV	Blinking green	The port has a PoE fault of overload.

	Off	The port is not connected.
SFP port status LED	Solid green	The port is connected.
	Blinking green	The port is receiving or transmitting traffic.
	Off	The port is not connected.
SFP+ port status LED	Solid green	The port is connected.
	Blinking green	The port is receiving or transmitting traffic.

1.3.3 Button

Botton	Description
PoE mode switch-over button	Press PoE Mode Switch-Over Button for above 3 seconds to switch the display mode between PoE mode and port rate mode.
Reset button	The switch reboots after the reset button is pressed for less than 2 seconds. The switch restores the default factory settings after the reset button is pressed for more than 5 seconds (until the status LED blinks).

1.4 Reyee Access Point

Reyee cloud-managed access point is a high performance for indoor/outdoor/wall scenarios. Compliant with 802.11ac wave2 Wi-Fi protocol, cloud-managed series access points support MU-MIMO dual stream technology.

The industrial product design makes the product is simple to install and maintenance.

Cloud-managed access points support self-organizing network.

Provide better performance based on Dual-band Wi-Fi

Supports 2.4GHz and 5GHz dual-band communication, providing access rate of 400Mbps at 2.4GHz, 867Mbps at 5GHz and up to 1267Mbps per AP. It can provide 5GHz frequency band with less interference, wider channel, and faster speed for the terminals, allowing the users to enjoy excellent wireless experience.

Seamless Layer 3 Roaming

The device supports Layer 3 roaming for the complex Layer 3 network. When users move across the Layer 3 networks, seamless roaming can be achieved without service interruption.

Support Self-organizing networking feature

Self-organizing networking feature, which breaks through the product limitations and realizes auto-discovery, auto-networking and auto-configuration between routers, switches, and wireless APs without the need for controllers or Internet access. With the mobile app, users can quickly complete the device deployment and configuration, remote management, operation and maintenance of the entire network, which greatly reduces the investment of equipment cost, labor cost and time cost in the process of wireless network construction.



1.4.1 Product List

Model	Covera ge	Recommend number of clients	WLAN ID Number	SON Number	Spatial Streams
RG-RAP1200(F)	20meter s	40=8(2.4G)+32(5G)	8	150	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP1200(P)	20meter s	80=16(2.4G)+64(5G)	8	150	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP2200(F)	30meter s	48=16(2.4G)+32(5G)	8	150	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP2200(E)	30meter s	80=16(2.4G)+64(5G)	8	300	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP2260(G)	30meter s	100=16(2.4G)+84(5G)	8	300	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP2260(E)	30meter s	120=16(2.4G)+104(5G)	8	300	2.4G 4x4MIMO 5G 4x4MIMO
RG-EAP602	2.4G 100met ers 5G 300met ers	96=32(2.4G)+64(5G)	8	150	2.4G 2x2MIMO 5G 2x2MIMO
RG-RAP6260(G)	100met ers	100=16(2.4G)+84(5G)	8	300	2.4G 2x2MIMO 5G 2x2MIMO

1.4.2 LED Indicator

Reyee Indoor AP(RG-RAP2200(E),	RG-RAP2200(F)	, RG-RAP2260(E),	RG-RAP2260(G))

LED Indicator	State	Frequency	Meaning
LED Indicator	Off	N/A	The AP is NOT receiving power
	Blinking	0.5Hz	Normal question,but there are alarms
	Fast blinking	10Hz	 Possible cases: 1、 restoring the factory settings 2、 upgrading the firmware 3、 restoring the image file 4、 initializing the device
	Solid green	NA	Normal operation

Reyee Wall AP(RG-RAP1200(F), RG-RAP1200(P))

LED Indicator	State	Frequency	Meaning	
LED Indicator	Off	N/A	The AP is powered off.	
	Slow blinking	0.5Hz	Normal question,but there are alarms	

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Fast blinking	10Hz	 Possible cases: 1、 restoring the factory settings 2、 upgrading the firmware 3、 self-repairing 4、 initializing the device 5、 POE OUT is overloaded
Solid green	NA	Normal operation

Reyee Outdoor AP(RG-EAP602, RG-RAP6260(G))

LED Indicator	State	Frequency	Meaning		
	Off	N/A	The AP is Not receiving power		
LED Indicator	Slow blinking	0.5Hz	Normal question,but the device is not connected to Ruijie Cloud		
	Fast blinking	10Hz	 Possible cases: 1、 restoring the factory settings 2、 upgrading the firmware 3、 restoring the image file 4、 initializing the device 		
	Solid Blue	On	Normal operation		

1.4.3 Button

Model		Button	Meaning
		Pressed for less than 2 seconds	Restart the device
All AP	Resel	Pressed for more than 5 seconds	Restore the factory default settings

1.5 Reyee Mesh Wi-Fi Router

Reyee EW series products are Gigabit dual-band Wi-Fi 6 wireless routers designed for use in large flat space, villas, small shops, SOHO, and other scenarios. It is designed to meet the needs of high quality next-generation Wi-Fi services. Reyee EW series products support various local and remote management platform, such as Web, Ruijie Cloud App. This wireless router also provides multiple home-care-based function, including the Parental Control Mode, Health Mode, Xpress Mode, and exclusive designed for Smart Life Kit System, meeting the needs of all household scenarios.



1.5.1 Product List

Model	Reyee Mesh	Wi-Fi Standards	Max. Wi-Fi Speed	мімо	Recommended Users
EW300 PRO	Not Support	Wi-Fi 4 (802.11n)	2.4 GHz: 300 Mbps	2.4 GHz: 2×2	16
EW1200	Support	Wi-Fi 5 (802.11ac)	2.4 GHz: 300 Mbps 5 GHz: 867 Mbps	2.4 GHz: 2×2 5 GHz: 2×2	96
EW1200G PRO	Support	Wi-Fi 5 (802.11ac)	2.4 GHz: 400 Mbps 5 GHz: 867 Mbps	2.4 GHz: 2×2 5 GHz: 2×2	96
EW1800GX PRO	Support	Wi-Fi 6 (802.11ax)	2.4 GHz: 574 Mbps 5 GHz: 800 Mbps	2.4 GHz: 2×2 5 GHz: 2×2	192
EW3200GX PRO	Support	Wi-Fi 6 (802.11ax)	2.4 GHz: 800 Mbps 5 GHz: 2400 Mbps	2.4 GHz: 4× 5 GHz: 4×4	192

1.5.2 LED Indicator

a) EW1800GX PRO and EW3200GX PRO

LED	Status		Description		
	Green	Blinking	The device is being paired		
Mesh Indicator		Steady on	The device is paired and Wi-Fi signal is norm		
	Orange	Steady on	The device is paired but Wi-Fi signal is weak		
	Red	Steady on	The device pairing is disconnected		
System Status Indicator	Blue	Steady on	The device is running normally		
	Dide	Blinking	Restoring the factory settings or restart		

b) EW1200G PRO

LED	Status	Description
	Off	The router is not powered on
System Status Indicator	Steady on	The router is running normally
	Fast Blinking	Restoring factory settings/Rebooting
	Slow Blinking	Reyee Mesh is being paired or repeater stops
	Off	The port is not connected or the cable disconnects
Port Indicator	Steady on	The port is connected normally
	Blinking	Data is being transmitting

c) 1.5.2.3 EW1200

LED	Status	Description		
	Off	The router is not powered on		
System Status Indicator	Steady on	The router is running normally		
	Fast Blinking	Restoring factory settings/Rebooting		
WiFi Indicator	Steady on	Reyee Mesh is sunning normally		
	Slow Blinking	Reyee Mesh is being paired or repeater stops		
Port Indicator	Off	The port is not connected or the cable disconnects		
	Steady on	The port is connected normally.		

d) EW300 PRO

LED	Status	Description	
	Off	The router is not powered on	
	Steady on	The router is running normally	
	Fast Blinking	The router is starting or power off	
System Status Indicator	Slow Blinking	The Internet cannot be accessed	
	Fast Blinking Twice	The router is restoring factory settings or upgrading	
	Slow Blinking Once and Fast Blinking Three Times	The firmware is faulty	

1.5.3 Button

Button	Function	Operation	
	Pair	Press the button 1second to pair	
Reset	Reboot	Press the button for 2 seconds, and the device will be rebooted.	
	Reset	Press the button for over 5 seconds until the LED starts to blink. Release the button, and the device will be reset.	

1.6 Reyee Wireless Bridge

Ruijie & Reyee Series EST products are 802.11ac wireless bridge for video surveillance backhaul or remote wireless transmission in scenarios such as tower cranes, factories, scenic spots, campuses, planting bases, aquafarm breeding bases, and construction sites. Operating at 5 GHz, RG-EST350 supports two spatial streams (2x2 MIMO technology) and provides up to 867 Mbps throughput, which can fully meet the data link bandwidth requirements of various services.



1.6.1 Product List

Model	Distance (m)	RSSI (dBm)	Negotiate Speed (Mbps)	Rate (Mbps)	3Mbps 2MP Camera (Unit)	4-5Mbps 3MP Camera (Unit)	6-7Mbps 4MP Camera (Unit)
RG-EST310 V2	100	-52	400	90	16	10	7
	500	-65	400	80	16	10	7
	1000	-68	240	80	16	10	7
	2000	-75	120	40	6	4	3
RG-EST350 V2	1000	-58	400	230	50	30	20
	3000	-66	360	200	45	25	13
	5000	-70	270	150	20	12	8

1.6.2 LED Indicator

a) EST30

LED	State	Meaning					
System Status	Solid green	Video recorder mode					
	Fast blinking green	The system is being upgraded or reset.					
	Blinking green at a	Camera mode					
	frequency of 2Hz						
LAN Port Status	Solid on	The LAN port is not receiving or transmitting data.					
	Blinking	The LAN port is receiving or transmitting data.					
RSSI (3 LEDs in total)	LED 1 blinks	RSSI < -69dBm					
	LED 1 is solid on.	-69dBm< RSSI <-59dBm					
	LED 1 and LED 2 are soli	dRSSI > -59dBm					
	on.						
	LED 1, LED 2 and LED 3RSSI > -49dBm						
	are solid on.						
	Off	No signal					

b) EST350

LED	State	Meaning					
	Solid green	The device is working properly.					
Svetom Status	Fast blinking green	The system is being upgraded or reset.					
System Status	Blinking green at a frequency of 1Hz	The device is being booted.					
ANI Davit Status	Solid green	The LAN port is not receiving or transmitting data.					
LAN POIL Status	Blinking	The LAN port is receiving or transmitting data.					
	STR1 blinking/on	The device is bridged.					
	STR1 on	RSSI > -75 dBm					
	STR1 on + STR2 blinking	RSSI > -73 dBm					
RSSI (3 EDe in total)	STR1 on + STR2 on	RSSI > -71 dBm					
	STR1 on + STR2 on + STR3 blinking	RSSI > -68 dBm					
	STR1 on + STR2 on + STR3 on	RSSI > -64 dBm					

1.6.3 Button

Button	Function	Operation						
	Reboot	Press the button for 2 seconds, and the device will be rebooted.						
Reset	Reset	Press the button for over 5 seconds until the LED starts to blink. Release the button, and the device will be reset.						

2 Device Management

2.1 Logging in

Web is a Web-based network management system used to manage or configure devices. You can access eWeb via browsers such as Google Chrome.Web-based management involves a Web server and a Web client. The Web server is integrated in a device, and is used to receive and process requests from the client, and return processing results to the client. The Web client usually refers to a browser, such as Google Chrome IE, or Firefox.

The Reyee managed switches not only support Web interface management, but also support life-time-free Ruijie Cloud App and Ruijie Cloud platform remote management. Users can view the network status, modify the configuration, and troubleshooting at home.

2.1.1 Case Demonstration

Network Topology

As shown in the figure below, you can access the eWeb management system of an access or aggregation switch via PC browser to manage and configure the device.



1. Set PC's IP assignment mode to obtain the IP address automatically.

- 2. Visit http://192.168.110.1 by Chrome browser.
- 3. Enter the password on the login page and click "Login".
- 4. Default Password: admin

RUJJE Hi, EG205G	
亡 Password	

For the Reyee EG device, you may use either 192.168.110.1 or 10.44.77.254 to access the device.
For the Reyee switches, you may use 10.44.77.200 to access the device.
For the Reyee AP, you may use either 192.168.120.1 or 10.44.77.254 to access the device.
For the EST, you may use 10.44.77.254 to access the device.
The default login password for all Reyee devices is admin.

You may visit https://10.44.77.253 to login to the master device of Reyee network.

2.2 Configuring Password

Ruíjie [®] Rcycc	test123 > AP1 (Slave) 🕖
Online Clients	<i>i</i> Change the login password. Please log in again with the new password later.
🖽 Router	* Old Password
♥ Wireless	* New Password
🗟 Switches	
	* Confirm Password
Be Network	
Time	Save
Password	
Scheduled Reboot	

2.3 Upgrading

Login to the eWeb of the device and choose Router--System--Upgrade.

Ruíjie i [®] Rcycc	test123 > API (dhung) O	English ~ 🔿 鼹 🖨 🙆 苗 🗗
စို Overview စ Online Clients	Router Hostname: EG105GW SN: H1PH745119402 • EG105GW IP: 172.26.5.237 MAC: 30.0D:9E:E7:E9:15	(U) Reboot
Router	$\label{eq:overview} Overview Basics \ ^{\checkmark} Security \ ^{\checkmark} Behavior \ ^{\checkmark} VPN \ ^{\checkmark} Advanced \ ^{\checkmark} Diagnostics \ ^{\checkmark}$	System ^
⇔Wireless ∨	Online Upgrade Local Upgrade	Login
Switches	Online upgrade will keep the current setup. Please do not refresh the page or close the browser after upgrade.	Upgrade n page automatically
-ªa- -a-Network ∨	Current Version ReyeeOS 1.55.1915 (It is the latest version.)	Reboot

2.4 Backing up and Resetting

Login in the eWeb of the device and choose Router--System--Management.

Rujje #Rcycc	test123 > AP1 Shore 0	ے × English	2 S	<u> </u>	€
ంది తి Online Clients	Router Hostname: EG105GW SN: H1PH745119402 • EG105GW IP: 172.26.5.237 MAC: 30:0D:9E:7:E9:15			(U) Reboot	
A Router	Overview Basics \lor Security \lor Behavior \lor VPN \lor Advanced \lor Diagnostics \lor	System ^			
♥Wireless ∨	Backup & Import Reset	Login Management			
Switches	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the profile. The device will be rebooted autor	Upgrade Reboot		0	
	Backup Profile				
	Backup Profile Backup				e
	Import Profile				2
Collapse					
○ 今日优选 ※ 凡是腰疼、腿	麻两年以上的患者,务必花几分钟看看这个方法	⑦ ☑ ◎ % 坐下戦	8	9 🛛 🖓 Q 1005	%

Login in the eWeb of the device and click Network--Reboot&Reset, then you can reset your devices.

8 Online Clients	🚺 Network Management	?
A Router	In the action here may affect the whole network. Please be cautious. If the page does not respond, please log in again.	
♥ Wireless ∨	Network Management	
🖾 Switches	Action Reboot Reset	
₩Network ^	Select All Devices Specified Devices	
Time	Sources Specified Devices	
Password	ОК	
Scheduled Reboot		
Repoot & Reset		

2.5 Restoring Factory Settings

Login in the eWeb of the device Reset all device in the network.



3 Getting Start

3.1 Preparing for Installation

3.1.1 Safety Suggestions

To avoid personal injury and equipment damage, please carefully read the safety suggestions before you install each device. The following safety suggestions do not cover all possible dangers

3.1.1.1 Installation

a) Keep the chassis clean and free from any dust.

b) Do not place devices in a walking area.

c) Do not wear loose clothes or accessories that may be hooked or caught by devices during installation and maintenance

3.1.1.2 Movement

a) Do not frequently move devices.

b) When moving devices, note the balance and avoid hurting legs and feet or straining the back.

c) Before moving devices, turn off all power supplies and dismantle all power modules.

3.1.1.3 Electricity

a) Observe local regulations and specifications when performing electric operations. Relevant operators must be qualified.

b) Before installing the device, carefully check any potential danger in the surroundings, such as ungrounded power supply, and damp/wet ground or floor.

c) Before installing the device, find out the location of the emergency power supply switch in the room. First cut off the power supply in the case of an accident.

d) Try to avoid maintaining the switch that is powered-on alone.

e) Be sure to make a careful check before you shut down the power supply.

f) Do not place the equipment in a damp location. Do not let any liquid enter the chassis

3.1.1.4 Static Discharge Damage Prevention

To prevent damage from static electricity, pay attention to the following:

a) Proper grounding of grounding screws on the back panel of the device. Use of a three-wire single-phase socket with protective earth wire (PE) as the AC power socket.

b) Indoor dust prevention

c) Proper humidity conditions

3.1.1.5 Laser

Some devices support varying models of optical modules sold on the market which are Class I laser products. Improper use of optical modules may cause damage. Therefore, pay attention to the following when you use them:

a) When a fiber transceiver works, ensure that the port has been connected with an optical fiber or is covered with a dust cap, to keep out dust and avoid burning your eyes.

b) When the optical module is working, do not pull out the fiber cable and stare into the transceiver interface or you may hurt your eyes.

3.1.2 Installation Site Requirement

To ensure the normal working and a prolonged durable life of the equipment, the installation site must meet the following requirements

3.1.2.1 Ventilation

For installing devices, a sufficient space (at least 10 cm distances from both sides and the back plane of the cabinet) should be reserved at the ventilation openings to ensure the normal ventilation. After various cables have been connected, they should be arranged into bundles or placed on the cabling rack to avoid blocking the air inlets. It is recommended to clean the switch at regular intervals (like once every 3 months). Especially, avoid dust from blocking the screen mesh on the back of the cabinet.

3.1.2.2 Temperature and Humidity

To ensure the normal operation and prolong the service life of router, you should keep proper temperature and humidity in the equipment room.

If the equipment room has temperature and humidity that do not meet the requirements for a long time, the equipment may be damaged.

In an environment with relatively high humidity, the insulating material may have bad insulation or even leak electricity. Sometimes the materials may suffer from mechanical performance change and metallic parts may get rusted.

In an environment with relatively low humidity, however, the insulating strip may dry and shrink. Static electricity may occur easily and endanger the circuit on the equipment.

In an environment with high temperature, the equipment is subject to even greater harm, as its performance may degrade significantly and various hardware faults may occur.

3.1.2.3 Cleanness

Dust poses a severe threat to the running of the equipment. The indoor dust falling on the equipment may be adhered by the static electricity, causing bad contact of the metallic joint. Such electrostatic adherence may occur more easily when the relative humidity is low, not only affecting the useful life of the equipment, but also causing communication faults.

3.1.2.4 Grounding

A good grounding system is the basis for the stable and reliable operation of devices. It is the chief condition to prevent lightning stroke and resist interference. Please carefully check the grounding conditions on the installation site according to the grounding requirements, and perform grounding operations properly as required

1.1 Lightning Grounding

The lightning protection system of a facility is an independent system that consists of the lightning rod, download conductor and the connector to the grounding system, which usually shares the power reference ground and yellow/green safety cable ground. The lightning discharge ground is for the facility only, irrelevant to the equipment.

1.2 EM C Grounding

The grounding required for EMC design includes shielding ground, filter ground, noise and interference suppression, and level reference. All the above constitute the comprehensive grounding requirements. The resistance of earth wires should be less than 1Ω

3.1.2.5 EMI

Electro-Magnetic Interference (EMI), from either outside or inside the equipment or application system, affects the system in the conductive ways such as capacitive coupling, inductive coupling, and electromagnetic radiation.

There are two types of electromagnetic interference: radiated interference and conducted interference, depending on the type of the transmission path.

When the energy, often RF energy, from a component arrives at a sensitive component via the space, the energy is known as radiated interference. The interference source can be either a part of the interfered system or a completely electrically isolated unit. Conducted interference results from the electromagnetic wire or signal cable connection between the source and the sensitive component, along which cable the interference conducts from one unit to another. Conducted interference often affects the power supply of the equipment, but can be controlled by a filter. Radiated interference may affect any signal path in the equipment and is difficult to shield.

a) For the AC power supply system TN, single-phase three-core power socket with protective earthing conductors (PE) should be adopted to effectively filter out interference from the power grid through the filtering circuit.

b) The grounding device of the switch must not be used as the grounding device of the electrical equipment or anti-lightning grounding device. In addition, the grounding device of the switch must be deployed far away from the grounding device of the electrical equipment and anti-lightning grounding device.

c) Keep the equipment away from high-power radio transmitter, radar transmitting station, and high-frequency large-current device.

d) Measures must be taken to shield static electricity.

e) Interface cables should be laid inside the equipment room. Outdoor cabling is prohibited, avoiding damages to device signal interfaces caused by over-voltage or over-current of lightning

3.1.3 Network Planning

The DHCP server has two address pools on the egress gateway:

192.168.110.0/24 in VLAN 1 for devices of this network

192.168.10.0/24 in VLAN 10 for clients of this network



Following ports are used for Ruijie Cloud management. To let devices go online on Ruijie Cloud, ensure these ports are available and the data stream is permitted in this network.

Cloud	Domain name	DST.TCP	DST.UDP	Cloud		Domain name	DST.TCP	DST.UDP	Cloud	Domain name	DST.TCP	DST.UDP
	devicereg.ruijienetworks.com	80,443				devicereg.ruijienetworks.com	80,443			devicereg.ruijienetworks.com	80,443	
	ryrc.ruijienetworks.com	80,443				ryrc.ruijienetworks.com	80,443			ryrc.ruijienetworks.com	80,443	
	stunrc.ruijienetworks.com		3478,3479			stunrc.ruijienetworks.com		3478,3479		stunrc.ruijienetworks.com		3478,3479
	stunsvr-as.ruijienetworks.com		3478,3479			stunsvr-eu.ruijienetworks.com		3478,3479		stunsvr-ru.ruijienetworks.com		3478,3479
	cwmpsvr-as.ruijienetworks.com	80,443			<u>Cloud-eu</u>	cwmpsvr-eu.ruijienetworks.com	80,443			cwmpsvr-ru.ruijienetworks.com	80,443	
	34.87.93.12	80,443				cloudlog-eu.ruijienetworks.com	80,443			130.193.40.202	80,443	
	firmware.ruijienetworks.com	80,443				firmware.ruijienetworks.com	80,443			firmware.ruijienetworks.com	80,443	
Cloud-as	cloudweb.ruijienetworks.com	80,443		Cloud		cloudweb.ruijienetworks.com	80,443		Cloud-ru	cloudweb.ruijienetworks.com	80,443	
	fastonline.ruijienetworks.com	80,443				fastonline.ruijienetworks.com	80,443			fastonline.ruijienetworks.com	80,443	
	cloudapi.ruijienetworks.com	80,443				cloudapi.ruijienetworks.com	80,443			cloudapi.ruijienetworks.com	80,443	
	cdn.ruijienetworks.com	80,443				cdn.ruijienetworks.com	80,443			cdn.ruijienetworks.com	80,443	
	iotrc.ruijienetworks.com		7683			iotrc.ruijienetworks.com		7683		iotrc.ruijienetworks.com		7683
	iotsvr-as.ruijienetworks.com		5683			iotsvr-eu.ruijienetworks.com		5683		iotsvr-ru.ruijienetworks.com		5683
	iotlog-as.ruijienetworks.com		6683			iotlog-eu.ruijienetworks.com		6683		iotlog-ru.ruijienetworks.com		6683
	iotdl-as.ruijienetworks.com		8683			iotdl-eu.ruijienetworks.com		8683		iotdl-ru.ruijienetworks.com		8683

3.2 Quick Provisioning

3.2.1 Quick provisioning via Ruijie Cloud APP

The network topology shown in the below picture includes the Reyee gateway, Reyee POE switch and Reyee RAP.



3.2.1.1 Create a project

Open Ruijie Cloud App and Click Create a Project, then select Connect to Wi-Fi.



After click Yes, then Cloud App will prompt you to connect @Ruijie-mxxxx SSID.

Note:

@Ruijie-mxxxx is generated after network self-organization established successfully, while @Ruijie-sxxxx is generated on a standalone device, xxxx is the last four letters of mac address of device.


Connect the @Ruijie-mxxxx SSID on your phone.

17:54 🖪 🖸 📑 🚥 19.0KB/s 🌿 🏵 🏭	ad ^d 🛜 46
\leftarrow	63
WLAN	
WLAN	
WLAN assistant	>
	۲
Available networks	0
🛜 EG2100P_plus	m >
qwert 2.4G/5G	>
🛜 @Ruijie-s0B36	>
	>
IT department (2.4G/5G)	>
PPSKtesttime 246/56	>
중 test1 2.4G/5G	>

After connected the @Ruijie-mxxxx SSID, the Cloud App will prompt to generate topology and detect all devices in this SON.





After all devices were detected, Cloud App will display them and show the topology, shown in the below picture. Click **Start Config** to perform the basic configuration of this project.



3.2.1.2 Configure the project

Input the Project Name and Management Password.

Reyee Cookbook

	Basic C	onfig	
	• 0		r.
Pro	oject Config Internet i	Config Wi-Fi Co	intig
Project Na	me *		
Reyee123			
Manageme	ent Password *		
			⊗ ~
For project	safety, please ensur	e the password	8
⊘ has at le	east 8 characters		
⊘ contains	3 of these characte	er types:	
 upper 	case letters: ABCD		
• numb	ers: 0123		
• specia	al characters: <=>[]!(@#\$*().	
⊘ can not	contain "admin"		
⊘ can not	contain spaces or q	uestion marks	
Scopario *			
Scenario			
Scenano			
Scenario			
Stelland			
Scenario			

Then select the scenario of this project based on your requirement.

Reyee Cookbook



3.2.1.3 Configure the internet

For configuring WAN, you can chose PPPoE, DHCP and Static IP.

		Basic Config	
	Project Confi	g Internet Config V	── ○ Vi−Fi Config
0	Single ISP Lin	k: WAN0	
Inte	ernet Connectio	on of Link 1 (connec	t to WAN0)
	PPPoE	DHCP	Static IP
Ne ass	twork param signed. You d	eters are automa lon't need to cont	tically figure.
802	1Q Tag		
0	Dual ISP Links	s: WAN0 and WAN1	

3.2.1.4 Configure the SSID

For SSID settings, input the name of SSID and configure it as open or configure password for this SSID. Select the region code.

<				
		Basic Config		
P	o roject Config	Internet Config	Wi-Fi Cont	fig
Name/SS	ID *			
Reyee123				
Open				
Radio Co	untry/Region	n Code *		
China				
Tip: Please	select your co	ountry or region.		
		Save		
88		Save © (])	Ŷ	~
88	······································	Save	Q 3	~
88	I	Save © ① 2	ঞ্ 3	~
88	1 4	Save © (I) 2 5	© 3 6	× × ×
000 / + -	1 4 7	Save ②	© 3 6 9	*
88 / + -	1 4 7	Save © (1) 2 5 8	© 3 6 9	× × * #
88 · / + 一	□□ 1 4 7 返回	Save ②	© 3 6 9	× × * #

The configuration will be synchronized to the network



After about 3s, Ruijie Cloud App will prompt that the configuration is delivery succeed.



Connect to the SSID created just now to manage the whole network on Cloud App.



3.2.2 Quick provisioning via Reyee EWeb

The network topology shown in the below picture includes the Reyee gateway, Reyee POE switch and Reyee RAP.

	17:56 🖪 🖸 🗖	9.7	7KB/s '⁄ <u>Ø</u> '' (9 111 .	<u> (</u>	Ð
<		Reyee1	23		Q	Ð
Hotel	Basic Enabled	CCTV Disabled	Smart	Flow Cor	ntrol	IP 0
	Project Sta	itus		Uptime 0d0h		1
Online Offline	Devices:3 Devices:0	EG105G- EG105G-	5000 P D D D D D D D D D D D D D D D D D			
User	Experience					
		No Da	ata			
Egre	ss Bandwidth					
Tool	Kit	~				



Connect PC to POE switch, set the ip address of PC as static ip address 192.168.110.x, then input 192.168.110.1 on the browser to login the EWEB of EG. All devices in this networks will display in EWEB. Click the Start Setup to perform the quick start of this network.

Ruíjie	Rcycc	Discover Device						English 🗸 📑 Exi
	Total I Please m	Devices: 3. nake sure that the device count and top	ology are correct. The unmanaged sw	itch will not appear in the lis	t.			Ø
	Net St	atus (Online Devices / Total)	G DHCP Internet	Router 1 Router	Switch 1/1 Switches	- (≂) 1/1 APs		Refresh O
	Му	Network						
	New	Device (3 devices) Model	SN	IP	MAC		Software Ver	×
	GP R	EG105G-P-V2 [Master]		192.168.110.1			1 914	
	í e	P RAP1200(E)		192.168.110.203	3		. 14	
	Si	witch RG-ES209GC-P	0	192.168.110.44	5	٢	15e(07200415)	
				Rediscover	Start Setup			

Show in the below picture, to finish the quick start of this network, you need to input the network name, configure the manner to access internet of this network and input the password of SSID or set the SSID as open. After select the Country/Region and click **Create Network & Connect**, the configuration will be delivery and activated, shown as the below two picture.

Reyee Cookbook

201710 ERCYCC Create Network	
* Network Name	ReyeeNetwork
Network Setting	s
Internet	PPPOE DHCP Static IP Current IP Current IP Current IP
- Ib	172.26.6.162
* Subnet Mask	255.255.252.0
* Gateway	172.26.4.1
* DNS Server	192.168.58.94 192.168.58.110
* SSID	@Ruijie-m0843
Wi-Fi Password	Security Open
Country/Region,	/Time Zone
Pro	Create Network & Connect

Bittenet FTPOC (C) (DECP (c)) (State (P)) * SUID Representation (State (P)) * SUID Representation (State (P)) * Delivering configuration	

After the configuration has been delivery and activated, you can enter the overview interface to manage the SON of Reyee devices.

Ruffe RCycc Create Network	Fr	nglish 🗸 🕞 Exit
• N Netwo	Operation succeeded. Project Name: ReyeeNetwork SSID: @Ruijie-m0843	
	Redirecting	
* Subnet i	Mask 255,255,252,0	
*.Gat	eway 172.25.4.1	
* DNS S	erver 192.168.58.94 192.168.58.110	
	SSID @Ruijie-m0843	
Wi-Fi Pass	word 🔿 Security 💿 Open	
Country/Reg	jion/Time Zone 🗸 🗸	
	Previous Create Network & Connect	

Getting Start

Reyee Cookbook

Ruijie Rcycc	ReyeeNetwork > Ruijie Minsing O	English 🗸 🙆 Ruijie Cloud	讚Download App	work Check - <u>満</u> Warn - 日Log Out
6 Overview	Device Info Setup>	Wi-Fi		Setup>
Online Clients	Hostname: Ruijie			
Bouter	SN: 119 IP: 172.26.6.162	Primary Wi-Fi: ReyeeNetwork Security: No	Guest Wi-Fi: Security: No	
	• EG 105G-P-V2 MAC: 08-43 Software Ver: 1 *.55.1914			
Switches				
	Net Status (Online Devices / Total)		•	Refresh ©
	DHCP 1 3./1Kbps Router	1 √ 3.09Kbps 5witch	1/1 1	
	Internet Router	Switches	APs Online Clients	
	Real-Time Flow (Kbps)			Kbps 🗸 WAN 🗸
	87	- Uplink Flow - Downlink Flow		
	7-			
	5-			
	4-			
	3.			(
	1			4
«Collapse				

4.1 Reyee EG Series Router Configuration

4.1.1 Network Access Setting

Application Scenario



Preparation

Need provide an uplink cable which can access internet.

Procedure

4.1.1.1 PPPoE setting with WAN port

1.1 Click Network Setup to enter the network setting page.

English ~	🛆 Ruijie Cloud	器Download App	会 Network Setup		尚 Warn	🕞 Log Out
-----------	----------------	---------------	-----------------	--	--------	-----------

1.2 Click Start Setup

Ruíjie	Rcycc	Discover Device						Engli	sh 🗸 🕞 Exit
	Total D Please ma	evices: 2. In the device count and to	pology are correct. The unmanaç	ed switch will not appear ir	the list.			0	
	Net Sta	tus (Online Devices / Total)	DHCP	Router	0 / 0 Switches	- 🕤 1/2 APs		Refresh ©	
	My	Network							
	Cloud	Auth Test (2 devices)						~	
		Model	SN	IP	MAC		Software Ver		
	Loca Rou	ter EG105G-P [Master]	HI	192.168.110.254	C0: 28:3C		ReyeeOS 1.56.1325		
	AI	RAP1200(F)	G1 A	192.168.110.205	C# 3:6A		ReyeeOS 1.75.1320		
				Rediscover	Start Setup				

1.3 Choose PPPoE, enter your Username and Password which get from the ISP. The Service Name is optional

Ruffe #Rcycc Create Network	English	~ 🕞 Exit
* Network N	Name Cloud_Auth_Test	
Network Set	ettings	
Int * User * Pass Service N	terrate PPPOE DHCP Static IP Current Settings: DHCP Test ssword (Optional) Provided by ISP	
0	Forgot Account? Obtain Account from Old Device	
	* SSID TestRAP2200F	
Wi-Fi Pass	ssword 🔿 Security 💿 Open	
Country/Reg	Provinus Finish	

1.4 If you forgot the password from ISP, please click Obtain Account from Old Device

	English 🗸 📑 Exit
	Network Name Cloud_Auth_Test
Ne	vork Settings
	Internet OPPOE DHCP Static IP Current Setting:: DHCP * Username Test * Password
Co	ntry/Region/Time Zone 🗸
	Previous Finish

Ruffe &RCyCC Create Network	English 🗸 📑 Exit
	Obtain PPPoE Account from Old Router Image: Control of the old router and new route: Step: 1. Starsmit Power on the old router and new route: 2. Conset the other and of a cable to the WAN port of the old router and consect the other and the LAN port of the new route: 2. Click "Obtain"
	Previous Finish

Steps:

1) Power on the old router and new router.

2) Connect one end of a cable to the WAN port of the old router and connect the other end to the LAN port of the new router.

3) Click "Obtain".

After enter the PPPoE information, click **Finish** to enter the main eWeb page. The Router will get the internet from ISP.

Rujje Rcycc	Cloud_Auth_Test > EG105G-P [Maxim] English ~ _ Ruijie Cloud Download App & Network Setup @ Network Check M Warn G Log Ou	ł
ିକ୍ତ Overview ® Online Clients Router ଙ Wireless	Device Info Setup> Wi-Fi Setup> U-Fi Setup U-Fi Setup> U-Fi Setup	
Switches ≅Network ✓	Net Status (Online Devices / Total) Perfect C DHCP Internet Refresh C South P South DHCP Internet Refresh C South C South DHCP Internet Router Switches APs Online Clients Refresh C South C South C South C South C South C South C South South C South S	
	Real-Time Flow (kbps) WAN V 300 250 200 150 100	2
«Collapse	50 -	

4.1.1.2 Static IP setting with WAN port

Choose Static IP on Network Setup page, and fill in IP, Subnet Mask, Gateway IP, DNS server information. Then click Create Network & Connect.

Rujje Rcycc Create Network	English -> (-) Exit
* Network Name	Ruijie-Hotel
Network Settings WAN port is not con	inected with network cable 🛇 View
Internet	PPPOE DHCP Static IP Current IP Current Settings DHCP
" ip " Subnet Mask	255.255.255.0
* Gateway * DNS Server	172266.1 8888
* SSID	@Ruijie-m3935
Wi-Fi Password Country/Region/	Security Open
* Country/Region	China (CN)
Previ	lous Create Network & Connect

4.1.1.3 DHCP IP setting with WAN port

Choose DHCP on Network Setup page, then click Create Network & Connect.

Create Network	English 🗸 🕒 Exit
	* Network Name Ruijie-Hotel
N	letwork Settings /AN port is not connected with network cable 😋 View
	Internet OPPOR DICP Static IP Current Settings DHCP
	WI-FI Password O Security O Open
c	ountry/Region/Time Zone V
	*Country/Region China (CN)
	unia soura (Tauli Landoleona) susanitras
	Previous Create Network & Connect
i Sign	
You can configure the WAN setting	through the following page too.

Click Router->Basics->WAN.

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Ruíjie	Ruijie-Hotel > Ruijie (Minter O	English v 🛆 Ruijie Cloud 📓 Download App 🔶 Network Setup 🙊 Network Check 💥 Warn 🕞 Log O
응 Overview 응 Online Clients Router	EG105G-P Hostname: Rulije SN: H IP: 17 Cverview Basks ^ Security * Behavior * VPN * Advanced * Diagnostics * System *	MAC: EC 3
⇔Wireless	WAN LAN Smooth to IPv6 Address	0
žNetwork. Υ	PoE Port VLAN PTV Forgot Account? Obtain Account from Old Device Password Service Name Coptionall Provided by ISP IP 0.0.0 Subject Mark 0.000	
	Gateway 0.0.00 DNS Server 0.0.00	
Collapse	Advanced Settings	

4.1.2 Wireless Setting

Application Scenario



Procedure

4.1.2.1 Wireless->APs

The APs page displays all APs which are managed by Router. The information including AP's **Hostname**, **IP**, **MAC**, **Status**, **Model**, **Wireless Clients Number**, **Software Version**, **SN and Radio Channel** could be seen in this page.. you also can see categories of the APs by Clicking [‡].

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Ruijie &Rcycc	Ruijie-Hotel > Ruijie (Effector) 0				English ∽ Ruijie Clo	ud 쮋Download App 🔗	Network Setup @Network Check	盐Warn 日Log Out
응 Overview ⑧ Online Clients	() AP List	-						0
Router	AP List Group: All Groups Expan	tname ⇔ IP ≎	MAC	\$ Model \$	Clients 0	IP/MAC/hostname/SN/Son	SN \$	Channel
APs	🗌 🕲 Manage 🖱 Reboot 💋	AP2200 192 37	C. Onli	e RAP2200(E)	0	ReyeeOS 1.53.172	G1 ,	auto-7,auto-64
WI-FI Clients	< 1 > 10/page ~							Total 1
Blacklist/Whitelist Radio Frequency								
LAN Ports LED								
WIO								
- Network								
« Collapse								2

Manage: Go to the AP detail setting page

Ruíjie IRcycc	Ruijie-Hotel > Ruijie (Mater) O	Hostname: AP →	SN: G1C IP: 192.1/	(C) Reboot
s ⁹ 8 Overview	AP List	• RAP2200(E) MAC: C4		
Online Clients		Overview Basics V Wireless V Advanced V D	lagnostics ~ System ~	
Router	AP List Group: All Groups	Overview		
♥Wireless ^	Action	Memory Usage	Online Clients	Status: Online
APs	🔲 🐵 Manage 🗢 Reboot	35%	0	Duration: 6 hours 43 minutes 58 seconds Systime: 2022-04-04 17:51:45
WI-FI Clients	10/page v	Device Details		
Blacklist/Whitelist		Model: RAP2200/F)	Hostname: AP2200 @	SN: G
Radio Frequency		MAC: C4: Hardware Ver: 1.10	Work Mode: AP 2 Software Ver: ReyeeOS 1.53.1721	Role: Slave AP (Master AC: 192.168.120.1)
LAN Ports LED		Wi-Fi		
WIO Bwitches		Primary Wi-FI: @Ruijie-m3935 Security: No	Guest WI-Fi: Security: N	No
Metwork ~		Interface Details		
		Connected Disconnected		
« Collanse			WAN LANI	Click RITA for help.

Reboot: Reboot the AP

Online: Show the SON status of AP.

Hostname: Click to modify the hostname of AP

() AI	P List			
AP Lis	t Group: All Groups	Expand		
	Action	Hostname 🌩	IP \$	MAC \$
	@ Manage ⊕ Reboot	AP2200 Save Cancel	92.	9:5A:1A

Expand: Go to Device Group Page, can add new device group.

Ruijie Rcycc	Ruijie-Hotel > Ruijie (Manaz) O	English 🗸 🛆 Ruijie Cloud 📓 Download App 🔮 Network Setup 🔞 Network Check 💥 Warn 🔂 Log Out
응Overview ⑧Online Clients	AP List AP List Group: All Groups Collapse	PAMAC/hostname/SN/SoftWare Ver List Filter Batch Action
Router	Search by Group Action Hostname © IP © MAC © Status ©	Clients ⊕ Software Ver SN ⊕ CF
APs WI-FI Clients	Default 💽 📷 💮 Manage 🛈 Reboot AP2200 192.168.120.137 C4 jA:1A Online	RAP2200(E) 0 ReyerOS 1.53.172. G1Q i96 auto-
Blacklist/Whitelist Radio Frequency	< 1 > 10/page <	Total 1
LAN Ports		
WIO Switches		
$\frac{q_{\rm es}}{q_{\rm e}}$ Network		
«Collapse		

AP List Group: All G	Groups Collapse)	
Search by Group	A	ction	Hostname \$
All Groups	+ * Group Name	AP1-Group	
Default 🛛 🖉		in the order	
AP1-Group	in a second s	C C I	

4.1.2.2 Wireless->Wi-Fi

This page has the Wi-Fi Setting, Guest Wi-Fi, Wi-Fi List, Healthy Mode, Load Balancing functions.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Mannar) 0	English CRuijie Cloud 麟Download App	🕞 Log Out
응 Overview ⑧ Online Clients	Wi-Fi Settings Guest Wi-Fi Wi-Fi List Healthy Mode Load Balancing Image: The Changing configuration requires a reboot and clients will be reconnected. Image: Configuration requires a reboot and clients will be reconnected.		0
Router	Wi-Fi Settings Device Group: Default		
APs Wi-Fi	* SSID @Ruijie-m3935 Band 2.4G + SG ~		
Clients Blacklist/Whitelist	Security Open V		
Radio Frequency LAN Ports	Wireless Schedule All Time 🗸		
WIO	VLAN Default VLAN Hide SSID (The SSID is hidden and must be manually entered.)		
Switches	AP Isolation (The client joining this WI-FI network will be isolated.)		
	Band Steering (The 5G-supported client will access 5G radio preferentially.) XPress (The client will experience faster speed.)		
« Collapse	Layer-3 Roaming (The client will keep his IP address unchanged in this WI-FI network.)		(P.

1. Wi-Fi Settings

Click the **Device Group** to choose the AP group, then can set the Wi-Fi settings for that AP group.

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		English ~	C Ruijie Cloud	Download App	Network Setup	Network Check	<u>洲</u> Warn	🗗 Log Out
Wi-Fi Settings	Device Group Default V							
* SSID	@Ruijie-m3935							
Band	2.4G + 5G \vee							
Security	Open v							
	Collapsa							
Wireless Schedule	All Time							
VLAN	Default VLAN V							
Hide SSID	(The SSID is hidden and must be manually entered.)							
AP Isolation	(The client joining this Wi-Fi network will be isolated.)							
Band Steering	(The 5G-supported client will access 5G radio preferentially.)							
XPress	(The client will experience faster speed.)							
Layer-3 Roaming	(The client will keep his IP address unchanged In this Wi-Fi network.)							
Wi-Fi6	(802.11ax High-Speed Wireless Connectivity.) 🛞							
	Save							e
								Ai
	Wi-Fi Settings * SSID Band Security Wireless Schedule VLAN Hide SSID AP Isolation Band Steering XPress Layer-3 Roaming Wi-Fi6	WI-FI Settings Device Group * SSID @Ruijle:m3935 Band 2.4G + 5G Security Open Collapse Collapse Wireless Schedule All Time VLAN Default VLAN Hide SSID (The SSID is hidden and must be manually entered.) AP isolation (The Client joining this Wi-Fi network will be isolated.) Band Steering (The Client uill experience faster speed.) Layer-3 Roaming (The client will keep his IP address unchanged in this Wi-Fi network.) Wi-Fi6 (802.11ax High-Speed Wireless Connectivity.) (*)	WI-FI Settings Device Group Default * SSID @Ruijie m3935 Band 2.4G + 5G Security Open Collapse Collapse Wireless Schedule All Time VLAN Default VLAN Hide SSID (The SSID is hidden and must be manually entered.) AP isolation (The Client joining this Wi-Fi network will be isolated.) Band Steering (The Client util experience faster speed.) Layer-3 Roaming (The client will keep his IP address unchanged in this Wi-Fi network.) Wi-Fi6 (802.11 ax High-Speed Wireless Connectivity.) (?)	Wi-Fi Settings Device Group *SSID @Ruije-m3935 Band 2.4G + 5G Security Open Colored Colored Wireless Schedule All Time Colored VLAN Default VLAN Hide SSID (The SSID is hidden and must be manually entered.) AP Isolation (The SID is hidden and must be manually entered.) AP Isolation (The Clent yill experience faster speed.) Layer-3 Roaming (The clent will except his IP address unchanged in this Wi-Fi network.) Wi-Fig (802.11 ax High-Speed Wireless Connectivity.) (*)	Wi-Fi Settings Device Group * SSID @ Ruijje m3935 Band Z4G + 5G Security Open Collapse Collapse Wireless Schedule All Time VLAN Default VLAN Hide SSID (The SSID is hidden and must be manually entered.) AP isolation (The Client joining this Wi-Fi network will be isolated.) Band Steering (The Client will access 5G radio preferentially.) XPress (The client will access 5G radio preferentially.) XPress (The client will access 5G radio preferentially.) Wriefic (802-11ax High-Speed Wireless Connectivity.) (*) Save Save	Wi-Fi Settings Device Group *SSID @Ruijie-m3935 Band 2.4G + 5.G Security Open Colleges Colleges Wireless Schedule All Time VLAN Default VLAN Default VLAN Colleges Wireless Schedule The Client joining this Wi-Fi network will be isolated.) AP isolation The Client joining this Wi-Fi network will be isolated.) Band Steering The Scient will experience faster speed) Lyper-3 Roaming The client will experience faster speed) WirFind The client will keep his IP address unchanged in this Wi-Fi network.) WirFind The client will keep his IP address unchanged in this Wi-Fi network.) WirFind The client will keep his IP address unchanged in this Wi-Fi network.) WirFind The client will keep his IP address unchanged in this Wi-Fi network.) WirFind (B02.11 ax High-Speed Wireless Connectivity) (?)	Wi-Fi Settings Default VLAN Security Open Colleges Wireless Schedule All Time VLAN Default VLAN Hide SSID Of the client joining this Wi-Fi network will be isolated.) Band Steering Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.) XPress Of the client will access 5G racio preferentially.)	Wi-Fi Settings Device Group Letant U *SSD Exciting Device Group Letant U *SSD Excit

SSID: SSID name

Band: 2.4G+5G, 2.4G, 5G

Security: Open, WPA-PSK, WPA2-PSK, WPA_WPA2-PSK

Wireless Schedule: All Time, Weekdays, Weekends, Custom

VLAN: Choose the VLAN used by this Wi-Fi Clients.

Hide SSID: The SSID is hidden and must be manually entered.

AP Isolation: The client joining this Wi-Fi network will be isolated.

Band Steering: The 5G-supported client will access 5G radio preferentially.

XPress: The client will experience faster speed.

Layer-3 Roaming: The client will keep his IP address unchanged in this Wi-Fi network.

Wi-Fi 6: 802.11ax High-Speed Wireless Connectivity.

2. Guest Wi-Fi

Click **Device Group** to choose the AP group, then can set the Guest Wi-Fi settings for that AP group. Click **Enable** to enable Guest Wi-Fi.

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_δ %Overview								
@ Online Clients	WI-FI Settings Guest WI-FI Ust Healthy Mode Load Balancing							
© Deuter	1 Tip: Changing configuration requires a reboot and clients will be reconnected.							0
@ Kouter								
	Guest WI-FI Device Group: Default							
APs	Enable 💽							
WI-FI	Save							
Clients								
Blacklist/Whitelist								
Radio Frequency								
LAN Ports								
LED								
WIO								
Switches								
a. tettoric								
								6
								2
≪Collapse								

The Guest Wi-Fi will enable AP Isolation default and can't be disabled, others are same with normal Wi-Fi.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (N	danter) O			English ~	Cloud	顓Download App	Network Setup	Network Check	<u>済</u> Warn	
욺Overview	Guest Wi-Fi De	vice Group: Default									
Online Clients	Enable										
A Router	* SSID	@Ruijie-guest-3935									
♥Wireless ^	Band	2.4G + 5G V									
APs											
Wi-Fi	Security	Open									
Clients		Collapse									
Blacklist/Whitelist	Wireless Schedule	Never Disable \vee									
Radio Frequency	VLAN	Default VLAN ~									
LAN Ports											
LED	Hide SSID	(The SSID is hidden and must be m	nanually entered.)								
WIO	AP Isolation	(The client joining this Wi-Fi netwo	ork will be isolated.)								
Switches	Band Steering	(The 5G-supported client will acces	ss 5G radio preferentially.)								
-e- -e-Network V	XPress	(The client will experience faster sp	peed.)								
	Layer-3 Roaming	(The client will keep his IP address	unchanged in this Wi-Fi net	twork.)							
	WI-FI6	(802.11ax High-Speed Wireless Co	onnectivity.) ⊘								e
«Collapse		Save									
«Collapse		Save									

3. Wi-Fi List

There are up to 8 SSIDs can be added for per AP group. But the default SSID can't been removed.

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Soverview Conline Clients Concerned Conterned Wireless APs Wi-Fi Clients Blacklist/Whitelist	WI-FI Settings Guest WI-FI WI-FI List Tip: Changing configuration requires a reb WI-Fi List Device Group: Default Up to # SSIDs can be added. SSID @Ruijie-m3935	Healthy Mode Load Balani oot and clients will be reconnected.	ing Security OPEN	Hidden No	VLAN ID Default VLAN	Add Action Edit Delete	
Radio Frequency LAN Ports LED W/O ⊡Switches ∑Network ✓	test1	2.4G + 5G	OPEN	No	Default VLAN	Edit Delete	64
Collapse							

4. Healthy Mode

Enable Healthy Mode, and the device will decrease it's transmit power to reduce radiation.

You can enable the Healthy Mode base on Device Group and Choose the Working schedule.

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e ² sOverview (© Online Clients (© Router (♥ Wireless) APs	Wi-Fi Settings Guest Wi-Fi Wi-Fi List Healthy Mode Load Balancing Imaging configuration requires a reboot and clients will be reconnected. Tip: Changing configuration requires a reboot and clients will be reconnected. Healthy Mode Device Group Default Imaging Imaging configuration Default Imaging		0
WI-FI Clients Blacklist/Whitelist Radio Frequency	Wireless Schedule All Time		
LED WIO BSwitches	Custom		
«Cottapse			2
A	Note: nging configuration requires to reboot your devices and clie	nts will be reconnected.	

5. Load Balancing

Add APs in the area into a group and enable load balancing. When load is unbalanced in the group, clients will automatically associate to an AP with lighter load.

Example: Add AP1 and AP2 into a group and select client load balancing. Set both the clients count threshold and difference value to 3. when AP1 is associated with 5 clients and AP2 is associated with 2 clients, the load balancing will be triggered. The association request of new clients to AP1 will be denied, and therefore they can only associate to AP2.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Master) 🔿		English ~	스 Ruijie Cloud 쀎Download App	rk Check 🖄 Warn 🕞 Log Out
옹Overview					
Online Clients	Wi-Fi Settings Guest Wi-Fi Wi-Fi	List Healthy Mode	Load Balancing		-
@ Router	Load Balancing			+ Add	Delete Selected
œWireless ^	Up to 32 entries can be added. Add APs in an area into a group and enable	le load balancing. When load is u	nbalanced in the group, clients will automatically associate to an AP with lighter load at both the client event threshold and difference to 2. ABL is according with 5 clients	l. e and AD2 is associated with 2 climets telepooring land balancing. New climets	tr' attempt to accordate
APs	to AP1 will be denied, and therefore they	can associate only to AP2.	e, bour die client count miesnoù and unerence to 3. Ar i is associated with 5 cliente	s and AF2 is associated with 2 citerius, triggering road balancing. New citeri	is altempt to associate
Wi-Fi	Group Name	Туре	Rule	Members	Action
Clients			No Data		
Blacklist/Whitelist					
Radio Frequency					
LAN Ports					
LED					
WIO					
/ Switches					
-@- -@- Network					
					6
					4
« Collapse					

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_d ⁹ δOverview	Wi-Fi Settings Guest Wi-Fi Wi-Fi List Healthy Mo	de Load Balan	cing						
Online Clients Router	Load Balancing	Add		×			+ Add	Delete Selected	
œWireless ∧	Up to 32 entries can be added. Add APs in an area into a group and enable load balancing. When Example: Add AP1 and AP2 into a group and select client load ba	* Group Name	test	AP2 is a	associated with 2 clients, trig	gering load balancing. Ne	w clients'atten	npt to associate	
APs	to AP1 will be denied, and therefore they can associate only to AP	* Туре	Client Load Balancing \vee						
Wi-Fi Clients	Group Name Type	* Rule	When an AP is associated with 3 O clients and the		Member	'S	Act	ion	
Blacklist/Whitelist			difference between the currently associated client count and						
Radio Frequency			client count on the AP with the lightest load reaches						
LAN Ports			3 , clients can associate only to another AP in the						
LED			group. After a client association is denied by an AP for						
WIO			10 times, the client will be allowed to associate to						
Switches			the AP upon the next attempt.						
Network V		* Members	AP2200 🛞 🗸						
		0	Member count range: 2-16						
			Cancel						(? 41
«Collapse									

A Note

Up to 32 entries can be added.

Member count range: 2-16.

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Overview Online Clients Router Used Balancing Vitrefiess APs Wirefiess APs Wirefiess APs Vitrefi Group Name Test * Type Clients Biackist/Whitelist Radio Frequency LAN Ports IED Wio	: <u>m</u> i Warn ⊡ Log Out
Rotter Load Balancing Wireless Add Add Ak una mask into a group and elect clieft with the index into a group and elect with a group and elec	
Wreless No to 31 writes can be added. APs * Group Name Test APs Wr-Fi Group Name Type Clients Blackisty/Writelist Radio Frequency LAN Ports IED WO	Delete Selected
BlacktstVM/httelist aimerence between the currently associated client count and Radio Frequency client count on the AP with the lightest load reaches LAN Ports 3 LED group. After a client associated to is denied by an AP for WIO 10	npt to associate
WIO 10 times, the client will be allowed to associate to	
Switches the AP upon the next attempt.	
★ Network ★ Members AF2220 @ Kembers count range 2-16 Cancel CK	l.

4.1.2.3 Wireless->Clients

The Wireless Client List displays Username, MAC, IP, SN, Duration, RSSI, Rate, Band, SSID, Channel, Action.

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	🥡 Wireless Cli	ents										
Router	Wireless Clier	nt List								C Refresh	Advanced S	iearch
₩ireless	Username	MAC	IP	SN	Duration	RSSI	Rate	Band	SSID	Channel	Action	
APs		6	192.168.120.250	C 6	2022-04-04 18:43:25	-37	117M	5G	@Ruijie-m3935	64	Add to Blac	klist
WI-FI		Go to page 1										Total 1
Clients		do to page										lotar r
Blacklist/Whitelist												
Radio Frequency												
LAN Ports												
WIO												
Switches												
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Click Add to **Blacklist** can add the client to blacklist.

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් _{රීත} Overview ම Online Clients	👔 Wireless Clien	ts									
Router	Wireless Client	List								C Refresh	Advanced Search
₩ireless	Username	MAC	IP	SN	Duration	RSSI	Rate	Band	SSID	Channel	Action
APs	RX1	64:5d	192.168.120.250	G1(696	2022-04-04 18:43:25	-37	117M	5G	@Ruljie-m3935	64	Add to Blacklist
WI-FI		Go to page 1									Total 1
Clients											
Blacklist/Whitelist				Do you want	to add 64:5d:86:86:ab	f5 to the blacklist?					
LAN Ports						Cancel OK					
LED											
WIO											
Switches											
*Network											
											2
Collapse											

4.1.2.4 Wireless->Blacklist/Whitelist

1. Global Blacklist/Whitelist

Choose All STAs except blacklisted STAs are allowed to access Wi-Fi, then you can click Add to add the blacklist WLAN clients. With the Client, you can add with full MAC address or prefix of mac address.

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∂s Overview ⊗ Online Clients ≧ Router ♥ Wireless へ APs	Giobal Blacklist/Whitelist SSID-Based Blacklist/Whitelist All STAs except blacklisted STAs are allowed to access Wi-Fi. Blocked WLAN Clients Up to 30 members can be added.	Only the whitelisted STAs are allowed to access WI-FL		+ Add D	elete Selected
Wi-Fi	MAC	Remark		Action	
Clients Blacklist/Whitelist	64:5 5	RX1501		Edit Delete	
Radio Frequency	< 1 > 10/page ~				Total 1
LAN Ports					
LED					
WIO					
🖾 Switches					
Network V					

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So Overview	Global Blacklist/Whitelist SSID-B	Based Blacklist/Whitelist					
Router	All STAs except blacklisted STAs	are allowed to access Wi-Fi.	Add	×			
♥Wireless	Blocked WLAN Clients		Match Type 💿 Full 🔷 Prefix (OUI)			+ Add	Delete Selected
APs	Up to 30 members can be added.		• MAC Example: 00:11:22:33:44:55				
WI-FI	8	MAC	Remark			Action	
Clients Blacklist/Whitelist	2	00;FF				Edit Delete	
Radio Frequency	10/page -		Cancel	ОК			Total 1
LAN Ports							
LED							
A Switches							
*Network							
							(P Ai
« Collapse							

Ruijie Rcycc									
SOverview	Global Blacklist/Whitelist SSID-I	Based Blacklist/Whitelist							
Router	All STAs except blacklisted STAs	are allowed to access Wi-Fi.	Add			×			
₩ireless	Blocked WLAN Clients		Match Type	O Full O Prefix (O	UI)			+ Add	Delete Selected
APs	Up to 30 members can be added.		* MAC	Example: 00:11:22					
WI-FI Clientr	8	MAC	Remark	RX1501			Ac	tion	
Blacklist/Whitelist	8	00:E0:4C:68:42:FF					Edit	Delete	
Radio Frequency	10/page -				Cancel	OK			Total 1
LAN Ports									
WIO									
Switches									
滥Network									
									(P.
« Collapse									

Choose **Only the whitelisted STAs** are allowed to access Wi-Fi, then you can click Add to add the whitelist WLAN clients.

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8 Overview	Global Blacklist/Whitelist SSID-Based Blacklist/Whitelist				
Router	All STAs except blacklisted STAs are allowed to access WI-FI.	whitelisted STAs are allowed to access Wi-Fi.			
	Allowed WLAN Clients			+ Add 🖻 Delete Selected	
APs	Up to 30 members can be added. Note: If the whitelist contains no clients, all clients will	be allowed to access WI-FI.			
Wi-Fi	MAC	Remark		Action	
Clients		No Data			
Radio Frequency	< 1 > 10/page ~			Total	0
LAN Ports					
LED					
WIO					
盈 Switches					
Network V					
					6
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. compte					
A	Noto				-
	NOLE				
Up t	o 30 members can be added.				

If you want to remove the client, you can select the clients then click Delete Selected

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 ♣ Overview ֎ Online Clients ➡ Router ♥ Wireless ▲ Ps ₩-Fi Clients Blacklist/Whitelist Radio Frequency LAN Ports LED 	Global Blacklist/Whitelist SSID-Based Blacklist/Whitelist Image: All STAs except blacklisted STAs are allowed to access Wi-FL Only the whitelisted STAs are allowed to access Wi-FL Blocked WLAN Clients Up to 30 members can be added. Image: Comparison of the state of th	+ Add Delete Selected Action Edit Delete Total 1
WIO @Switches ≇Network ✓		
«Collapse		

Or click delete it here

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Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Maxiur) O		English ~ _ 스Ruijie Cloud 📓 Download App	会 Network Setup (Q Network Check
Source and the second	Giobal Blacklist/Whitelist SSID-Based Blacklist/Whitelist Ciobal Blacklist/Whitelist SSID-Based Blacklist/Whitelist Ciobal Blacklist Ciobal Blacklist Ciobal Blacklist Ciobal Blacklist Ciobal B	Only the whitelisted STAs are allowed to access Wi-Fi.		Action Edit Delete Total 1
« Collapse				Ai

Click Edit can modify the client information

Ruijie Rcycc	Ruijie-Hotel > Ruijie Watter O		English ~	Cloud	識Download App	Network Setup	@ Network Check	د <u>الأ</u> Warn	🗗 Log Out
응Overview	Global Blacklist/Whitelist SSID-Based Blacklist/	list							
Router	• All STAs except blacklisted STAs are allowed to	s WI-FI. Edit	×						
♥Wireless	Blocked WLAN Clients	Match Type O Full O Prefix (OUI)					+ Add	🖹 Delete S	elected
APs	Up to 30 members can be added.	• MAC 00:E i2:FF •							
WI-FI Clients	MAC MAC	Remark RX.J01				Ac	tion		
Blacklist/Whitelist	00:E						Delete		
Radio Frequency	10/page 🗸	Cancel	OK						Total 1
LAN Ports									
LED									
Switches									
Network									
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2. SSID-Based Blacklist/Whitelist

Choose Device Group and SSID and then base on Blacklist/Whitelist to add WLAN clients.

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^g δOverview	Global Blacklist/Whitelist SSID-Base	ed Blacklist/Whitelist								
Online Clients		A CONTRACTOR OF A CONTRACTOR O								
🕾 Router	Blacklist/Whitelist is used to allow of Note: OUI matching rule and SSID- Rule: 1. In the Blacklist mode, the	or reject a client's request to connect to the based blacklist/whitelist are supported by a clients in the blacklist are not allowed to	he Wi-Fi network. only RAP Net and P32 (and later versio connect to the Wi-Fi network.	ns).						
♥Wireless ^	2. In the Whitelist mode, on	nly the clients in the whitelist are allowed to	o connect to the Wi-Fi network.							
APs	Device Group: Default ~	• All STAs except blacklisted STAs	are allowed to access WI-FI.	 Only the whitelisted STAs are 	allowed to access \	VI-FI.				
Wi-Fi	@Ruijie.m3935									
Clients	test1	Blocked WLAN Clients						+ Add	Delete Selecte	:d
Blacklist/Whitelist		Up to 30 members can be added.								
Radio Frequency			MAC	Ren	nark			Action		
LAN Ports		00:E	0; '2:FF	RX1	-01		Ed	dit Delete		
LED		00-57	0 42-11	PV1	01		Fr	tit Delete		
WIO		00.64	TEIT	1041	01			in Delete		
☑ Switches		00:8	3:42:12	RX	.01		Ec	lit Delete		
-e- Network		00:	8:42:13	RX	501		Ec	dit Delete		
		00:	8:42:14	RX	501		Ec	ilt Delete		
		00:1	1:42:15	R	501		Ec	lit Delete		G
		00:E	:42:16	R	501		Ec	dit Delete		4
«Collapse										

🛕 Note

Up to 30 members based on SSID can be added.

OUI matching rule and SSID-based Blacklist/Whitelist are supported by only RAP Net and P32 (and later versions).

4.1.2.5 Wireless->Radio Frequency

Radio Frequency page can modify the Country Code, 2.4G Channel Width, 5G Channel Width, Client Count Limit, Kick-off Threshold based on the device group.

Ruíjie ARcycc	Ruijie-Hotel > Ruijie (Minner) O		Ē	English 🗸 🛆 Ruijie Cloud	题Download App	A Network Setup	Network Check	<u>済</u> Warn	🗗 Log Out
5 ² 0verview									
(8) Online Clients	Tip: Changing configuration requires a reboot and clients will be reconnected.								
Router	Radio Frequency Device Group: Default								
	Country/Region China (CN) ~								
APs	2.4G Channel Width Auto ~	5G Channel Width	Auto						
Wi-Fi	Client Count Limit 32	Client Count Limit	32						
Clients									
Blacklist/Whitelist	Kick-off Threshold ② O Disable -75dBm -50dBm	Kick-off Threshold	O Isable -75dBn	n -50dBm					
Radio Frequency									
LAN Ports	Save								
LED									
WIO									
Switches									
Network									
									6
									2
Collapse									

Kick-off Threshold: When the client's RSSI is lower than the threshold, it will be kicked off.

4.1.2.6 Wireless->LAN Ports

You can configure the Default LAN Port Settings or configure LAN Port Settings base on APs.

1. Default Settings

Click Add VLAN to add the needed VLAN on Gateway first, if you have set the needed VLAN, this step can be ignored.

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essoverview ⊗ Online Clients	LAN Port Settings The configuration takes effect only for the AP with a LAN port, e.g., EAP101. Note: The configuration takes effect only for the AP with a LAN port, e.g., EAP101. Note: The configuration takes affect only for the AP device with no LAN port settings will be enabled with default settings. Default Settings VLAN ID							
Clients Blacklist/Whitelist Radio Frequency LAN Ports LED WIO	Applied to AP device with no LAN port settings Sive LAN Port Settings Up to 8 VLAN IDs or 32 APs can be added (0 APs have been added).					+ Add	한 Delete Se	lected
Switches	□ VLAN ID ⇔ Applied No Data	to				Action		
«Collapse								(*

		English Chuijie Cloud : 鍵Download App
	Hostname: Ruije SN: H1QH68L045754 IP: 172.256.124 MAC: EF GotosG-P GotosG-P Cverview Basics - Security - Behavior - VPN - Advan	EC8970-17:9935
♥Wireless	LAN Settings DHCP Clients Static IP Addresses DHCP Op 192.168.12.1	
圖 Switches	LAN Settings Subnet Mask 255.255.0	Ø
*Network *	LAN Settings *VLAN ID 12	+ Add 🛛 🖾 Delete Selected
	Up to & entries can be added. Remark Remark	
	IP Subnet Mask EC:89:70:46:81:63	Start IP Count Lease Time(Min) Action
	192.168.120.1 255.255.0 De DHCP Server	192.168.120.1 254 30 Edit Delete
	* Start 192.168.12.1	
	* IP Count 254	
	* Lease Time(Min) 30	
	DNS Server 192.168.12.1 0	
	Cancel	OK
« Collapse		

Then fill the needed VLAN, it will apply to AP devices without LAN port settings

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& Overview © Online Clients Router © Wireless APs Wi-Fi Clients	LAN Port Settings The configuration takes effect only for the AP with a LAN port, e.g., LAP101. Note: The configured LAN port settings prevail. The AP device with no LAN port settings will be enabled with default settings. Default Settings VLAN ID 12 Add VLAN (Range: 2-232 and 234-4090. A blank value indicates the same VLAN as WAN port.)						
Blacklist/Whitelist Radio Frequency LAN Ports LED WIO	Applied to AP device with no LAN port settings Save LAN Port Settings Up to 8 VLAN IDs or 32 APs can be added (0 APs have been added).				+ Add 🗉] Delete Sel	ected
	VLAN ID \Rightarrow Appl	ied to			Action		
«Collapse							(? 41

2. LAN Port Settings

Click Add to set the VLAN of AP LAN port

Ruíjie	Ruijie-Hotel > Ruijie Infantum (0	English 🗸 🙆 Ruijie Cl	ud 📓Download App	Network Setup	Network Check	<u>済</u> Warn	🗗 Log Out
a ² s Overview ⑧ Online Clients 폐 Router 중 Wireless	LAN Port Settings The configuration takes effect only for the AP with a LAN port, e.g. EAP101. Note: The configured LAN port settings prevail. The AP device with no LAN port settings will be enabled with default settings. Default Settings						
APs Wi-Fi Clients Blacklist/Whitelist Radio Frequency LAN Ports LED	VLAN ID Add VLAN (Range: 2-232 and 234-4090. A blank value indicates the same VLAN as WAN port.) Applied to AP device with no LAN port settings Save LAN Port Settings Up to 8 VLAN Ds or 32 APs can be added (0. APs have been added).			[+ Add] Delete Se	lected
WIO ≧Switches ÆNetwork ✓	■ VLAN ID ≎ Applia	ed to			Action		
Collapse							
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Conversion Continue Clients Clients Clients Clients Blacklist/Whitelist Badio Frememory	LAN Port Setting: The configuration takes effect only for the AP with a LAN port, eq Nete: The configured LAN port settings prevail. The AP devices with Default Settings VLAN ID (Range: 2-232 and 234-4090. A blank value in WAN port.) Applied to AP device with no LAN port settings ①	Cancel CK				
LAN Ports LED WIO	LAN Port Settings Up to 8: VLAN IDs or 32: APs can be added (0: APs have been added);			+ Add	Delete Selected	
/ Switches	ULAN ID ÷	Applied to		Act	ion	
ENetwork		No Data				
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4.1.2.7 Wireless->LED

Control the LED status of the downlink AP.

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8 Overview	LED Status Control							
Online Clients	Control the LED status of the downlink AP.							
Router	Enable C							
	Save							
APs								
WI-FI								
Clients								
Blacklist/Whitelist								
Radio Frequency								
LAN Ports								
LED								
WIO								
Switches								
Network 🗸								
								e
« Collapse								

4.1.2.8 Wireless->WIO

This feature will optimize the self-organizing network to maximize the WLAN performance. Please make sure that all APs have been online.

Choose I have read the notes, then you can start Network Optimization.

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Rujje	Ruijie-Hotel > Ruijie Minister 🛛	English ~ 〇Ruijie Cloud 識Download App 令 Network Setup @ Network Check
් _ස Overview ඔOnline Clients ඬ Router	Network Optimization Optimization Record	©
ক Wireless	Start scanning Opumizing	
APs	This feature will optimize the self-organizing network to maximize the WLAN performance. Please make sur	e that all APs have been online.
Wi-Fi	Notes: 1. During network optimization, the APs will switch channels, forcing the clients to go offline. The process w	ill last for a while, subject to the quantity of devices. It is recommended you enable network optimization at night.
Clients	2. If dynamic channel allocation is running in the backend, network optimization will fail. Please try again lat	ег.
Blacklist/Whitelist	 The configuration cannot be rolled back once optimization starts. I have read the notes. 	
Radio Frequency	Network Optimization	
LAN Ports		
LED	Scheduled Optimization	
WIO	Optimize the network performance at a scheduled time for a better user experience.	
E Switches	Enable 🕥	
Network	Save	e
		4i
«Collapse		

🛕 Note

1) During network optimization, the APs will switch channels, forcing the clients to go offline. The process will last for a while which depends on the quantity of devices. It is recommended to enable your network optimization at night.

2) If the dynamic channel allocation is running in the backend, network optimization will fail. Please try it again later.

3) The configuration cannot be rolled back once the optimization starts.

Scheduled Optimization: Optimize the network performance at a scheduled time for a better user experience.

Scheduled O	ptimiz	ation																									
Optimize the	Optimiz e network	ation c perform	nance	at a	schedul	ed time	for	or a	r a	ra	a	a í	be	ett	ter	er u	use	er ex	kpe	rier	nce.						
E	Enable (٦																								
	Day	Sun	~																								
	Time	03	\sim] :]	00	\sim																					
	1		Sav	/e																							

4.1.3 Switches Setting

Switch List displays all switches which are managed by Router. The information including Switch's Hostname, IP, MAC, Status, Model, Software Version, SN can be in this page. AP categories could be seen by clicking

*												
Ruíjie @Rcycc	test123 > EG	105GW	(Master) O			English	✓ △ Ruijie Cloud 器	🛿 Download App 🛛 🖨 N	letwork Setup	@Network Check	<u>済</u> Warn	🕞 Log Out
చి Overview @ Online Clients	 Switch L 	ch List					IP/MAC/hostname/SN	N/SoftWare Ver Q	🗊 Delete O	offline Devices	Batch Up	ograde
■ Router		ction	Hostname ≑	IP \$	MAC \$	Status ≑	Model \$	S	oftware Ver		SN \$	
Switches		anage anage	NBS5200	192.168.110.3 192.168.110.74	C0:B [*] >:77	Online	RG-ES209GC-P NBS5200- 24SFP/8GT4XS	ESW_1.0(1)B Reye	1P3,Release(072 eeOS 1.54.1818	200415)	CAP G1I	37
	- M.	anage	NBS3100 &	192.168.110.2	CO:B JD	Online	NBS3100- 24GT4SFP-P	Reye	eeOS 1.83.1511	1	51F	47
			TO page									iota s
												(
Collapse												

Manage: Go to the Switch detail setting page

Ruíjie Rcycc		English ~ 🛆	융 System Info	Basic Settings	🛆 Upgrade
ింOverview (ని Online Clients (మె Router	Switch List	IP/M#	Support VLAN Settings	6 7 8 9	C Refresh (O Reboot
⇔Wireless ~	Action Hostname IP MAC	Status ¢	Hostname Ruijie Cloud S	ES209GC-P 2 tatus: Connected RG-ES209GC-P	
Switches Network	Manage ES209GC-P Z 192.168.110.3 C0:88 ::77	Online R Offline 2	SYS SOTWARE VER SN MAC IP Subnet Mask	ESW 1.0(1)61P3,Release(0/200415) C 1237 C(
	□ Manage NBS3100 & 192.168.110.2 C0.1 3.0D	Online	WAN Gateway DNS Server	192.168.110.1 192.168.110.1	
	C 1 3 10/page v		Port Statistics		>
			Cable Diagnostics		>
«Collapse					

Edit Hostname: Modify the hostname of switch

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Rujje	test123 > EG105GW Minister 0	English 🗸 🕜 Ruijie Cloud	跛Download App	ik <u>mi</u> Wann <mark>⊟</mark> LogOut
A Overview ⊗ Online Clients Router Wireless × Switches Network ×	Switch Lie Edit Hostname Switch L E5209GC-P A Edit Hostname Manage E5209GC-P d2 Manage E5209GC-P d2 Manage NB55200 192.168.110.74 54:	IP/MAC/hostnam NC \$ Status \$ Model \$ D:77 Online RG-ES209GC \&F Offline NBS5200- 245FP/8GT43	e/SN/SoftWare Ver Q Delete Offline Devices Software Ver -P ESW_1.0(1)B1P3,Release(07200415) IS ReyeeOS 1.54.1818	Batch Upgrade SN ¢ C 237 G1 78
	Manage NBS3100 ℓ 192.168.110.2 C0:E	Online NBS3100- 24GT4SFP-F	, ReyeeOS 1.83.1511	G1Pi 47
	< 1 > 10/page >			Total 3
"Collarse				6

4.1.4 System Setting

4.1.4.1 Time

This page displays **Current Time, Time Zone and NTP Server**. It will synchronize the correct time automatically,

Ruijie Rcycc	test123 > EG105GW [Max	ter) O			English ~	🛆 Ruijie Cloud	器 Download App	🖨 Network Setup	@ Network Check	<u>済</u> Warn	🗗 Log Out
ి Overview	Configure and view Current Time 20	system time (The device h	as no RTC module. T	The time settings will not	t be saved upo	on reboot).					0
■ Router	* Time Zone	(GMT+8:00)Asia/Shangh	ai v								
Switches	* NTP Server	0.cn.pool.ntp.org	Add Delete								
Time Password		cn.pool.ntp.org	Delete								
Scheduled Reboot Reboot & Reset		asia.pool.ntp.org	Delete								
		europe.pool.ntp.org rdate.darkorb.net	Delete								
		Save									6
Collapse											

1. Manually edit the current time or click current time to let it synchronize current time automatically.

Reyee Cookbook

Ruíjie Rcycc													
^e ₀Overview	Configure and vie	we system time (The											
Online Clients	Considere and vice	E E	Edit								×		
Router	Current Time	2022-04-07 21:15							_				
⊛Wireless	* Time Zone	(GMT+8:00)Asia	* Time	© 2022	2-04-0	8 00:0	0:00						
-	* NTP Server	0.cn.pool.ntp.or		2022	-04-08			00:00:0	00				
Switches				« <		202	22 A	pril		> >>	_		
and Network		1.cn.pool.ntp.or		Sun	Mon	Tue	Wed	Thu	Fri	Sat	ОК		
Time		cn.pool.ntp.org	Delete		28	29	30	31	1	2			
Password		pool.ntp.org		3	4	5	6	7	8	9			
Scheduled Reboot				10	11	12	13	14	15	16			
Reboot & Reset		asia.pool.ntp.org		17	18	19	20	21	22	23			
		europe.pool.ntp.org	Delete	24	25	26	27	28	29	30			
		rdate.darkorb.net			6	-		2	0				
									Now	OK			
		Save											
«Collapse													

e [®] oVerview	Configure and views	austern time (The						0
Online Clients	Configure and view s	Ed	t			×		U
Router	Current Time 202	22-04-07 21:15						
⊜Wireless ~	* Time Zone (GMT+8:00)Asia	- 11	Current Time				
Switches	* NTP Server (0.cn.pool.ntp.or						
en Network		I.cn.pool.ntp.or			Cancel	ОК		
Time	c	n.pool.ntp.org	Delete					
Password		pool.ntp.org						
Scheduled Reboot								
Reboot & Reset	e	asia.pool.ntp.org						
		europe.pool.ntp.org						
		date.darkorb.net						
		Save						6
«Collapse								

2. Manually choose the Time Zone

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Rujje	test123 > EG105GW (Mader) 0		English ~	ARuijie Cloud	퉳 Download App	🔗 Network Setup	@ Network Check	<u>済</u> Warn	🕞 Log Out
a Overview	() Configure and view system time (The device ha	s no RTC module. The time sett	tings will not be saved upo	n reboot).					0
Online Clients	Current Time 2022-04-07 21:16:18	t							
Router									
	* Time Zone (GMT+8:00)Asia/Shangha	ii A							
Switches	* NTP Server (GMT+8:00)Asia/Hong_k (GMT+8:00)Asia/Irkutsk	long							
: Network	(GMT+8:00)Asia/Kuala_L	umpur							
Time	(GMT+8:00)Asia/Macau	9							
Password	(GMT+8:00)Asia/Makass	ar							
Scheduled Reboot	(GMT+8:00)Asia/Manila								
Reboot & Reset	(GMT+8:00)Asia/Shang	hai							
	europe.pool.ntp.org	Delete							
	rdate.darkorb.net	Delete							
	Save								e
≪ Collapse									

3. Add or delete the NTP server.

Rujje	test123 > EG105GW (Minister)	English ~	☐ Ruijie Cloud	訳Download App	Network Setup	@ Network Check	<u>済</u> Warn	🕞 Log Out
a ² s Overview ⊗ Online Clients	Configure and view system time (The device has no RTC Current Time 2022-04-07 21:15:39 Edit Time Zone (GMT+8:00)Asia/Shanghai NTP Server O.cn.pool.ntp.org Add	module. The time settings will not be saved upor	n reboot).					0
Time	1.cn.pool.ntp.org Delete	a						
Password Scheduled Reboot	pool.ntp.org Delete	1						
Reboot & Reset	asia.pool.ntp.org Delete europe.pool.ntp.org Delete	2						
<i>"</i> ."	rdate.darkorb.net Delets Save	2						(

4.1.4.2 Password

Modify the password by enter your old password and new password.

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Rujje	test123 > EG105GW Tillinining 0	English ~ Ruijie Cloud	顓Download App	🖨 Network Setup	@ Network Check	<u>芮</u> Warn	🕞 Log Out
충Overview	Change the login password. Please log in again with the new password later.						0
Online Clients A Router	* Old Password						
	* New Password						
Switches	* Confirm Password ····································						
Time	Save						
Password							
Scheduled Reboot							
heboti a hear							
≪Collapse							

4.1.4.3 Reboot

1. Schedule Reboot for All Devices on the same SON network.

Ruíjie Reyce	test123 > EG105GW (Minute) 0	English ~	Cloud	讀Download App	🖨 Network Setup	Network Check	<u>済</u> Warn	🕞 Log Out
 ♣ Overview ֎ Online Clients ֎ Router ♥ Wireless ♥ Switches ★ Network Time Password 	It is recommended to set the scheduled time to a network idle time, e.g., 2 A.M The downlink device will also be rebooted as scheduled. Enable	Sun 3						
Scheduled Reboot Reboot & Reset «Collapse								

2. Reboot for All Devices or Specified Devices on the same SON network immediately.

Reyee Cookbook

Rujje	test123 > EG105GW (Minuser)	English 🗸 🛆 Ruijie	Cloud 뛟Download App	\varTheta Network Setup	@Network Check	<u>芮</u> Warn	🕒 Log Out
 ♣ Overview ⊗ Online Clients ➡ Router ♥ Wireless ✓ ➡ Switches ₩ Network ^ Time 	Network Management The action here may affect the whole network. Please be cautious. If the page Network Management Action Reboot Reset Select All Devices Specified Devices	does not respond, plea	e log in again.				0
Password Scheduled Reboot Reboot & Reset							

3. Reboot for **Specified Devices** on the same SON network immediately.

Choose the devices which need to be reboot, then click Add and OK, then the devices will reboot.

Ruíjie Rcycc	test123 > EG105GW (Mannar) @	English ~ 🛆 Ruijie Cloud	顓Download App	🔗 Network Setup	@ Network Check	<u>尚</u> Warn	🗗 Log Out
2 Overview	V Network Management						U
Online Clients	1 The action here may affect the whole network. Please be cautious. If	the page does not respond, please log	in again.				
/≝} Router	Network Management						
	Action Reboot Reset						
Switches	Select All Devices Specified Devices						
-Network	Available Devices 4/6	Selected Devices 0	/0				
Time	Q Search by SN/Model	Q Search by SN/Model					
Password	AND - FG105GW						
Scheduled Reboot		No data					
Reboot & Reset	 G11 147B - NBS5200-2 G1C 0534 - RAP2260(E) 						
	G1PF 747 - NBS3100-2						
	G1QH2 34A - RAP1200(F)						
	CAPC0Y 37 - RG-ES209GC-P						
	ОК						
Collapse							

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Rujje	test123 > EG105GW (Master) 0	English 🗸 ᄉြRuijie Cloud a go Download App : ﴿ Network Setup @ Network Check ※ Warn 급 Log Out
and Overview	The action here may affect the whole network. Please be cautious. If	the page does not respond, please log in again.
@ Router	Network Management	
중 Wireless · ·	Action Reboot Reset Select All Devices Specified Devices	
network ^	Available Devices 0/2	Selected Devices 0/4
Time Password	Q Search by SN/Model	Q Search by SN/Model
Scheduled Reboot	□ G1Q	H1PF 19402 - EG105GW
		G1QH60534 - RAP2260(E) G1PHC/747 - NBS3100-24GT4
≪ Collapse		4

If you don't want to reboot some selected devices, you can select then delete.

Ruíjie Rcycc	test123 > EG105GW ilkinster 0	English ~ 🛆 Ruijie Cloud	顓Download App	🖨 Network Setup	@ Network Check	<u> 満</u> Warn	🕞 Log Out
중Overview							U
Online Clients	1 The action here may affect the whole network. Please be cautious.	If the page does not respond, please log	in again.				
/∰ Router	Network Management						
	Action Reboot Reset						
Switches	Select All Devices Specified Devices						
Setwork ^	Available Devices 0/2	Selected Devices 2	/4				
Time	Q Search by SN/Model	Q Search by SN/Model					
Password	G1C 4A - RAP1200(F) Celete	H1F 12 - EG105GW					
Scheduled Reboot	□ CA 7 - RG-ES209GC-P Add >	G 47B - NBS5200-24					
Reboot & Reset		G1 14 - RAP2260(E)					
		G1 47 - NBS3100-24GT	4				
	ОК						() 41
«Collapse							

4. Reboot Router

Click Router->System->Reboot, then click Reboot to reboot Router itself.

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Ruijie #Rcycc	test123 > EG105GW Minister 0	English ~ Ruijie Cloud	顓Download App	습 Network Setup	Network Check	<u>満</u> Warn ☐ Log Out
중Overview	Hostname: EG105GW SN; H	IP: 1				
(a) Online Clients	• EG105GW MAC: 30 '5					O Reboot
Router	Overview Basics ~ Security ~ Behavior ~ VPN ~ Advanced ~ Diagnost	ics 🗠 System ^				
	Reboot Scheduled Reboot	Login				
Switches	Please keep the device powered on during reboot.	Upgrade				0
-e -e -e Network	Reboot	Reboot				
«Collapse						

5. Schedule Reboot Router

Click **Router->System->Reboot**, then choose Schedule Reboot and click **Enable** to set the reboot day and time. Finally **Save** the setting

Ruíjie Reycc	test123 > EG105GW (Minister) 0	English ~ 🛆 Ruijie Cloud	鼢Download App	🖨 Network Setup	Network Check	<u>満</u> Warn	🕞 Log Out
e ⁹ s.Overview ② Online Clients ③ Router ③ Wireless × ④ Switches ☆ Network ×	Hostname: EG105GW • EG105GW • EG105GW Overview Basics × Security × Behavior × VPN × Advanced × Diagnost Reboot Scheduled Reboot T is recommended to set the scheduled time to a network idle time, e.g., 2 A.M. The downlink device will also be rebooted as scheduled. Enable Day @ Mon @ Tue @ Wed @ Thu @ Fri @ Sate Time 03 × : 00 × Save	IP: *				٦ U)	teboot
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4.1.4.4 Reset

1. Reset all devices on the same SON network

Click Network->Reboot&Reset->Reset, then click OK to reset all devices.

Reyee Cookbook

Ruijie	test123 > EG105GW (Master) 0	English ~	☐ Ruijie Cloud	뙗 Download App	🖨 Network Setup	@ Network Check	<u>尚</u> Warn	🕞 Log Out
e ⁿ s Overview ② Online Clients ☑ Router ③ Wireless × ☑ Switches ☑ Network ^	Network Management The action here may affect the whole network, Please be cautious. If Network Management Action Reboot Reset Option Unbind Account (The devices of this account will be removed from OK	the page does not respo n Ruijie Cloud and will not be r	ond, please log	in again. ount).				0
Password Scheduled Reboot Reboot & Reset								

If you want to remove devices from Ruijie Cloud, can enable the option Unbind Account, then click OK.

Rujje Rcycc	test123 > EG105GW (Minutesi)	English ~	☐ Ruijie Cloud	顓Download App	Network Setup	@ Network Check	<u>済</u> Warn 日 Log Out
s ⁵ sOverview ⊗ Online Clients ≅ Router ⊗ Wireless ×	Network Management The action here may affect the whole network. Please be cautious. If the Network Management	page does not resp	iond, please log	in again.			0
Switches Network Time Password	Option Unbind Account (The devices of this account will be removed from Rul	ijie Cloud and will not be	managed by this ac	count).			
Scheduled Reboot Reboot & Reset							
«Collapse							6

2. Reset Router

Click Router->System->Management->Reset.

Reyee Cookbook

Configuration

Ruijie #Rcycc	test123 > EG105GW (Minimum) 0	English ~ 🛆 Ruijie Cloud	證Download App	🖨 Network Setup	@ Network Check	<u>m</u> Warn ⊟ Log Ou	it
	Zoom Hostname: E SGW SN: E • EG105GW MAC: MAC: MAC: Diagnost Overview Basics ~ Security ~ Behavior ~ VPN ~ Advanced ~ Diagnost Diagnost	IP: 1				(U Reboot	
⇔Wireless ✓	Backup & Import	Login Management Backup P Upgrade				0	
-de- ne- ret- Network	Reset	Reboot					
« Collapse							
<u> </u>	lote						

Resetting the device will clear the current settings. If you want to keep the setup, please Backup Profile first.

4.1.4.5 Backup & Import the configuration of Router

Click Router->System->Management->Backup & Import->Backup to backup configuration.

Ruíjie Reyce	test123 > EG105GW (Ministry) •	English ~ 🕜 Ruijie Cloud	器 Download App	🖨 Network Setup	Network Check	<u> </u>	∃Log Out
e ^a sOverview ⊗Online Clients @Router ⊗Wireless ✓	Zoorr Hostname: EG105GW SN: • EG105GW MAC: MAC: Overview Basics × Security × Behavior × VPN × Advanced × Diagnos Backup & Import Reset	IP: tics ~ System ^				U R	eboot
BSwitches ≇Network ✓	If the target version is much later than the current version, some configuration may be m It is recommended to choose Reset before importing the profile. The device will be reboon Backup Profile Backup Profile Backup Import Profile File Path Please select a file. Browse Import	twanagement issing. Upgrade Reboot					0
«Collapse							

Click Router->System->Management->Backup & Import->Browse to choose the configuration, then click Import to import it.

4.1.4.6 Upgrade the firmware of Router

Reyee Cookbook

Rujje	test123 > EG105GW iMmeter: I Ruijie Cloud MD Download App I Network Setup I Network Check	<u>א</u> Wam (⊒-Log Out
Overview	Raser Hostname: EG105GW SN; F 2 IP; 17	(1) Pakeat
Online Clients	• EG105GW MAC: 3	O REDOOL
Router	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×	
♥Wireless	Backup & Import Reset	
A Switches	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the profile. The device will be rebooted automatically later.	0
-de- -eNetwork ∽	Backup Profile	
	Backup Profile Backup	
	Import Profile	
	File Path backup-EG105GW-E Browse Import	
«Collapse		

4.1.5 Diagnostics

4.1.5.1 Network Check

You can check your network and fix the problem on this page.

Click Router->Diagnostics->Network Check->Start

Ruijie #Rcycc	Ruijie-Hotel > Ruijie (Makaza) 🛛	English	~ 〇Ruijie Cloud 闘Download Ag	op 🔮 Network Setup 🔞 Network Check	<u>ằ</u> Warn ⊡ Log Out
& Overview ⊗ Online Clients Router	Egross P Hostname: Rulije EG105G-P Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics	IP: 1 MAC:			(1) Reboot
©Wireless ∨ @Switches ≋Network ∨	Network Check Network Check Alarms Network The Network The Packet Capt	ieck ols ture			0
	Fault Collect	tion			
					-

Ruíjie &Rcycc	test123 > Ruijie (Nistrum) ()	English ~	CRuijie Cloud	Download App	A Network Setup	Network Check	<u>済</u> Warn	🕒 Log Out
& Overview								
Online Clients	Hostname: Ruijie SN: H 6 IP: 172.26.5.253	MAC: CO					(U R	leboot
Router	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×							
⇔Wireless ✓	1 Network Check							0
Switches	Defende							
Network V	Netherk				100%			
	And a second				100%			
	WAN/LAN Cable				S			
	Auto-Negotiated Speed				0			
	WAN Port				0			
	DHCP-Assigned IP Address				0			
	LAN & WAN Address Conflict				0			
	Loop				0			
	DHCP Server Conflict				0			
	IP Address Conflict				0			
	Route				0			
	Next Hop Connectivity				0			4
«Collapse	DNS Server				0			

4.1.5.2 Alarms

Alarms page can view and manage alarms.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Minitur) 0		English ~	CRuijie Cloud MDownload App	A Network Setup @ Network Check	ՃWarn ┣Log Out
AOverview Online Clients Image: Router Image: Witches Image: Switches Image: Network ✓	Hostname: Ruijie SN: F Verview Basics & Security & Behavior & VPN & Advanced & View and manage alarms. Alarm List Expand Alarms	P: 17 MAC Diagnostics System ~ Network Check Alarms Network Tools Packet Capture Fault Collection	C: ECB		View Action	C Reboot
	< 1 > To/page ~	No Data	3			Total 0
« Collapse						-

4.1.5.3 Network Tool

You can check the network status by some tools on this page, such as Ping, Traceroute, DNS Lookup Tools

Ruijie	Ruijie-Hotel > Ruijie 1986.0007 •	English - 스Ruijie Cloud 鍵Download App : 용 Network Setup @ Network Check 滋Warn 급Log Out
Averview Overview Online Clients Image: Client	Hostname: Ruljie SR I IP. 1 MA Verview Basks © Security © Behavior © VPN © Advanced © Dagnostics System © Image: Network Tools Network Tools Network Tools Image: Notestame: Notestame DNS Lookup Network Tools Image: Notestame: Notestame DNS Lookup Network Tools Image: Notestame: Notestame: Notestame DNS Lookup Network Tools Image: Notestame: Notestame: Notestame DNS Lookup Network Tools Image: Notestame: Notestame: Notestame DNS Lookup Packet Capture Image: Notestame: Notestame: Notestame: Notestame DNS Lookup Packet Capture Image: Notestame: Notestame: Notestame: Notestame DNS Lookup Packet Capture Image: Notestame: Notes	C. ECS
«Collapse		

1. Ping Tool

Key in **IP Address/Domain, Ping Count, Packet Size** on this page, then Click Start will show the ping result on the following windows.

Tool	Ping	O DNS Lookup	
Address/Domain	8.8.8.8		
* Ping Count	4		
* Packet Size	64 E		
	Start	Stop	
PING 8.8.8.8 (8	3.8.8.8): 64 data bytes		
72 bytes from	8.8.8.8: seq=0 ttl=112 time=	42.277 ms	
	8888 seg=1 ttl=112 time=	43.100 ms	
72 bytes from	oloioloi beg i ta TTE ante		
72 bytes from 72 bytes from	8.8.8.8: seq=2 ttl=112 time=/	43.862 ms	
72 bytes from 72 bytes from 72 bytes from	8.8.8.8: seq=2 ttl=112 time= 8.8.8.8: seq=3 ttl=112 time=	43.862 ms 41.880 ms	
72 bytes from 72 bytes from 72 bytes from 8.8.8.8 ping	8.8.8.8: seq=2 ttl=112 time= 8.8.8.8: seq=3 ttl=112 time= 9 statistics	43.862 ms 41.880 ms	

2. Traceroute Tool

Key in IP Address/Domain, Max TTL on this page, then Click Start will show the ping result on the following windows.

IP Address/Domain	172.26.4.1	
* Max TTL	20	
	Start	Stop
traceroute to 7 packets 1 172.26.4.1 (72.26.4.1 (172.26.4.1), 2 17 <mark>2.26.4.1</mark>) 1.860 ms 1	20 hops max, 38 byte .624 ms 1.868 ms

3. DNS Lookup Tool

Resolve the domain to an IP address.

1001	O Ping O Tracerou	ite 🧿 DNS Lookup
IP Address/Domain	www.google.com	
	Start	Stop
Server: 127.0	0.0.1	
Address 1: 127	7.0.0.1 localhost	
Name: www	w.google.com	
Address 1: 200	01::6ca0:a7a7	
Address 2: 128	3.242.240.20	

4. Packet Capture

You can capture packet to generate a diagnosis file on this page.

Click Router->Diagnostics->Packet Capture, fill the Interface, Protocol, IP Address, File Size Limit, Packet Count Limit then click Start.

Ruijie	Ruijie-Hotel > Ruijie (M	herari) O			ŝ	English 🗸 🛆 Ruijie Cloud	譅Download App	Network Setup	Network Check	<u>満</u> Warn 日 Log Out
ස් Overview @ Online Clients @ Router	Egoter ● EG105G-P Overview Basics ~	Hostname: Ruijie Security × Behavior × VPN ×	SN: H Advanced	IP: 17 ✓ Diagnostics ^ System ✓	MAC: Ef	5				(U) Reboot
♥Wireless	Packet Capture			Alarms						0
Switches	Interface	LAN		Network Tools						
Se Network	Protocol	TCP		Fault Collection						
	IP Address									
	File Size Limit	2M	~ A	wailable Memory 72.17 M						
	Packet Count Limit	500								
		Start	qq							
«Collapse										

Interface: Capture packets passing through this interface.

Protocol: Capture packets of this protocol.

IP Address: Capture packets of this IP address

File Size Limit: Limit the size of packet file

Packet Count Limit: Limit the packet count. When the packet count reaches the limit, packet capture will stop and a download link will be generated.

5. Fault Collection

Compress the configuration file for engineers to identify fault.

Click Router->Diagnostics->Fault Collection->Start. Then will auto download a fault collection file for this.

Ruíjie #Rcycc	Ruijie-Hotel > Ruijie (Master) 0	English ~	△Ruijie Cloud 📓Download App	A Network Setup @ Network Check	<u> 浙</u> Warn 日 Log Out
R Online Clients	Tower Hostname: Ruijie SN: HTC IP	: 1 MAC: EC ;			() Reboot
Router	EbilosG-P Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics ^	System ~			
⇔Wireless ~	Fault Collection Fault Collection Compress the configuration file for engineers to identify fault. Alarms Network Tools				
Network 🗸	Start Packet Capture Fault Collection	1			
					-
«Collapse					

4.1.6 WAN Load Balance

Application Scenario



Prerequisite

Two uplink cables which can access internet should be prepared.

Procedure

Step 1: Choose Gateway → Basics → WAN

Ruíjie	Reyee > Ruijie [Master]	0	English 📀 🛆 MACC 🔁 Download App 🍦 Network Setup 🔍 Network Che	ck 📺 Alarms 🕞 Exit
A Overview		Hortname: Puillo SN: 122456	67800122 ID Addrover 172.19.159.150	
Online Clients	• EG105G	MAC: 00:D0:F	F8:11:11:11	(U) Reboot
Gateway	Device Overview Ba	asics ^ Security ~ Behavior ~ VF	PN \sim Advanced \sim Diagnostics \sim System \sim	
	WAN Settin	AN		0
🖾 Switches	Configure W/ LA			U
-e- -e-Network	Single Line Dua	Il-Line		
	* IP Assignment	Static IP Address	~	
	* IP Address	172.18.158.150	۵	
	* Submask	255.255.255.0		
	* Gateway	172.18.158.1		
	* DNS Server	192.168.58.95		
		Advanced Settings		
		Save		

Step 2: Configure the WAN interface accordingly

Reyee Cookbook

Ruijie	Reyee > Ruijie (Master)	0	English			A Network Setup	Q Network Check	濟Alarms □ Exit
움Overview		Jactaama Duilla Chu	1224567800122	ID Address 173	10.150.150			
(8) Online Clients	• EG105G	MAC:	00:D0:F8:11:11:11	ir Address. 172	.10.130.130			(U) Reboot
Gateway	Device Overview Ba	sics ~ Security ~ Behavior ~	VPN ~ Adv	anced ~ Diag	nostics ~ System	1.1		
	WAN Settings							0
☑ Switches	Configure WAN se	ettings.						0
-a- Network	Single Line Dual	-Line						
	WAN WAN1	ISP/Load Settings						
	* IP Assignment	Static IP Address						
	* IP Address	172.18.158.150	۱.					
	* Submask	255.255.255.0						
	* Gateway	172.18.158.1						
	* DNS Server	192.168.58.95						
		Advanced Settings						
	1	Save						

Step 3: Choose ISP/Load Settings, and configure the load mode and interface weight

Ruijie	Reyee > Ruijie (Master) @ En	glish 🕞 ⊘MACC ⊜Download App . ♦ Network Setup . ♦ Network Check 📺 Alarms 🕁 Ex
ିର Overview ම Online Clients	Gewess Hostname: Ruijie SN: 12345678901 EG105G MAC: 00:DerRei11:1	23 IP Address: 172.18.158.150 (*) Reboot
A Gateway	Device Overview Basics Security Behavior VPN Security	Advanced ~ Diagnostics ~ System ~
₩ireless	WAN Settings	0
🖾 Switches	Contigure WAN settings.	
* Network	Single Line Dual-Line	
	WAN WAN1 ISP/Load Settings	
	Load Balancing Settings	
	 Traffic will be routed based on ISP settings preferentially. The spectra of the spe	e remaining traffic will be managed according to load mode. ording to the weight of each WAN port. For example, if WAN and WAN1 weight are set to 3 and 2 % over WAN1. Iterface. Once the primary interface fails, traffic will be switched over to the secondary interface. If their weight (See balanced mode).
	Load Mode Balanced V	
	Balancing Policy Based on Link ~	
	* WAN Weight 100	
	* WAN1 Weight 100	
	Save	

Balanced mode: The traffic will be spread across multiple links according to the weight of each WAN port. For example, if WAN and WAN1 weight are set to 3 and 2 respectively, 60% of the total traffic will be routed over WAN and 40% over WAN1.

Primary & secondary mode: All traffic is routed over the primary interface. Once the primary interface fails, traffic will be switched over to the secondary interface. If there are multiple primary and secondary interfaces, please configure their weight (See balanced mode).

Step 4: Save the configuration

Reyee Cookbook Configuration 2 Overview SN: 1234567890123 MAC: 00:D0:F8:11:11:11 Hostname: Ruijie IP Address: 172.18.158.150 Gateway () Reboot Online Clients • EG105G Device Overview Basics · Security · Behavior · VPN · Advanced · Diagnostics · System · Gateway Onfigure WAN settings. ? Switches Single Line Dual-Line Network WAN WAN1 ISP/Load Settings Load Balancing Settings Traffic will be routed based on ISP settings preferentially. The remaining traffic will be managed according to load mode. 1. Balanced mode: The traffic will be spread across multiple links according to the weight of each WAN port. For example, if WAN and WAN1 weight are set to 3 and 2 respectively, 60% of the total traffic will be routed over WAN and 40% over WAN1. 2. Primary & secondary mode: All traffic is routed over the primary interface. Once the primary interface fails, traffic will be switched over to the secondary interface. If there are multiple primary and secondary interfaces, please configure their weight (See balanced mode). Load Mode Balanced Balancing Policy Based on Link If you fail to access online bank service, please select Based on Src IP Address. * WAN Weight 100 * WAN1 Weight 100 -

4.1.7 Port VLAN

Application Scenario



Procedure

1. Click Router->Basics->LAN to create VLAN first.

Rujje	Ruijie-Hotel > Ru	ijje (Mister) 0					English ~	Cloud	劉Download App	🔮 Network Setup	Network Check	<u>満</u> Warn	🕒 Log Out
중 Overview ⑧ Online Clients	Fourier • EG105G-P	Hostname: Ruiji	P.;	5N: H1 54	IP: 172	MAC: EC:B9	,5					٥	Reboot
Router	Overview Ba	AN	Behavior 🕤 VPN	 Advanced < Diagnostics 	✓ System ✓								
☑ Switches	LAN Settings	v6 Address	c IP Addresses	DHCP Option DNS Proxy									0
the Network	LAN Set Po	e rt VLAN									+ Add	🗈 Delete Se	elected
	Up to 8 (IP	Subnet Mask	VLAN ID	Remark	DHCP Server	r	Start	IP Cour	it Leas	e Time(Min)	Activ	on
	19	2.168.110.1	255.255.255.0	Default VLAN		Enabled		192.168.110.1	254		30	Edit D	lelete
	- 1	92.168.12.1	255.255.255.0	12		Enabled		192.168.12.1	254		30	Edit D	lelete
													6
« Collapse													

Reyee Cookbook

Ruijie	усс Ru	iijie-Hotel	> Ruijie <mark>(Micher)</mark> O					English	~ 🛆 Ruijie Cloud	識Download App	Network Setup	Network Che	eck <u>ak</u> Warn ⊡ Log Out
So Overview		• EG10	SG-P Basics – Security	s: Ruijie V Behavior V VPN	sn: H1QH6RL04575 Add	4 B	?: 172.26.6.124 MA	C: EC:89:70:17:39:35 ×					(1) Reboot
⇔Wireless		AN Setting	s DHCP Clients	Static IP Addresses	DHCP Op	+ Ib	192.168.10.1						
Switches			l Settings			* Subnet Mask	255.255.255.0						0
Network	~	LAN Se	ttings			* VLAN ID	10					+ Add	Delete Selected
		Up to 8	entries can be added.			Remark	Remark						
			IP	Subnet Mask		* MAC	EC:89:70:51:88:88		Start	IP Cou	nt Lea	ise Time(Min)	Action
			192.168.110.1	255.255.255.0	De	DHCP Server			192.168.110.1	254		30	Edit Delete
			192.168.12.1	255.255.255.0		* Start	192.168.10.1		192.168.12.1	254		30	Edit Delete
						* IP Count	254						
						Lease Time(Min)	30						
						DNS Server	192.168.10.1 Ø						
2 Callinate							Cance	е					(r a
« Cottapse													
192	2.168.10.1		255.255.255.0	10		-	Enabled	192.168	.10.1	254		30	Edit Delete

2. Click **Port VLAN** to tag VLAN, normally the VLAN will be tagged default.

Rujje	Ruijie-Hotel > Ruijie (Bhateer, 🛛	English - 合Ruijie Cloud 鍵Download App
ී Overview ම Online Clients @ Router	Hostname: Ruljie SN: SN:	8 5 O Reboot
♥Wireless ∨	Port Port	0
	Connel UNTAG Port 0 Port 1 Port 2 UNTAG UNTAG UNTAG VLAN 10 TAG	
«Collanse	VLAN 12 TAG V TAG V	

UNTAG: If VLAN 10 is set to untag VLAN of port 2, VLAN 10 will be the native VLAN of port 2. The packets from VLAN 10 will be forwarded over port 2 without tag VLAN 10 and all untagged packets over port 2 will be taken as the packets from VLAN 10.

Each port can be configured with only one untag VLAN.

The native VLAN of port 1 is the default VLAN and cannot be edited.

TAG: If both VLAN 10 and VLAN 20 are set to tag VLAN of port 2, the packets from VLAN 10 and VLAN 20 will be forwarded over port 2 with the corresponding VLAN tag.

Not Join: If both VLAN 10 and VLAN 20 are set to **Not Join port 2**, port 2 will not receive or transmit packets from VLAN 10 or VLAN 20.

4.1.8 VPN

Application Scenario

Clients to Site Scenario



Procedure

4.1.8.1 PPTP VPN

PPTP VPN usually is used for the clients to site scenario and site to site scenario. For example, clients work from home, but he need to access company server through PPTP VPN tunnel. Another example is that a company has three branches which are distributed in three different places of the Internet, and every place need to establish a tunnel with each other by a gateway.

1) Clients to Site Scenario Configuration

(1) On the HQ side:

Log in to Reyee EG by the default IP 192.168.110.1.

Click Setup->VPN->PPTP and enable PPTP.

Reyee Cookbook

Rujje Rcycc	Cloud_Auth_Test > EG105G-P (Ministry) @	En	nglish ~ 스 Ruijie Cloud 跛Download App	∃Log Out
Solution Electron Solution So	Colling Autin, Lets (* Defloster + Invester) Former EG105G-P Coverview Basics × Security × Behavior × VPN ~ Coverview Basics × Security × Behavior × VPN ~ PPTP Settings PPTP PPTP Settings PPTP VPN Cle	HIPTATCO01746 IP: 172.26.5.253 MAC: C088E6:3528 Advanced ~ Diagnostics ~ System ~	Inglish v Cikulje Cloud BilDownload App & Network Setup (Q Network Check m Warn (2 2830	boot
	PPTP Type • Server O Client			
	* Local Address 192.168.100.1			
	* IP Range 192.168.100.2-192.168.100.254	0		
	* DNS Server 8.8.8.8			
	* PPP Hello Interval 10	seconds		
	Save			
				(?
« Collapse				

c Configure the PPTP setting and click Save.

Ruijie Rcycc	Cloud_Auth_Test > EG105G-P Minster 0	Operation succeeded.	English ~ _ Cloud _ 鍵Download App	♦ Network Setup ④ Network Check 챔Warn ☐ Log Out
⁸ 80verview	Roster Hostname: EG105G-P SN: H11	PTATC001746 IP- 172-26-5-253 M	AC: CD-REF6:35:28:3C	(C) Reboot
Online Clients	• EG105G-P	1, 1120223 (F	W. CONDENSITIES	
A Router	Overview Basics Security Behavior Adv	ivanced ~ Diagnostics ~ System ~		
Se Wireless	PPTP Settings Tunnel List			
A Switches	PPTP Settings			0
Network	Enable			
	PPTP Type O Server O Client			
	* Local Address 192.168.100.1			
	* IP Range 192.168.100.2-192.168.100.254	Θ		
	* DNS Server 8.8.8.8			
	* PPP Hello Interval 10	seconds		
	Save			
				e
« Collapse				"Ai

d Configure VPN clients

Reyee Cookbook

Ruíjie	Unknown Name > EG-gateway (Maaturi 🗿		English ~ 🛆 鼹 🔮 @ 油 🗗
ိမ္မOverview ⑧ Online Clients 壆 Router	Kouter Hostname: EG-gateway EG105G-P IP: 172.26.5.46 Overview Basics ~ Security ~ Behavior ~	SN: H MAC: EC:89:70:17:39:35 VPN ^ Advanced ~ Diagnostics ~ System	(U) Reboot
	<i>i</i> VPN Clients VPN Client List	IPSec L2TP PPTP	Particular Selected
-e-Network 🗸	Up to 32 entries can be added.	VEN Clients	
	Username Password	Service Type Network Mode Peer Subne	t Status Action
		No Data	
« Collapse			

Reyce									濟Warn ☐Log Out
So Overview	e EG105	Hostname: EG105G G-P MAC: C0:B8:E	Add User			×			(1) Reboot
Router	Overview	Basics ~ Security ~ Beh	Service Type	РРТР					
⇔ Wireless ~	🚺 VPN	Clients	* Username	test3					0
Switches	VPN Clie	ent List	* Password		0			+ Add	Delete Selected
	Up to 30	entries can be added.	Network Mode	PC to Router					
		Username				net	Status		Action
		test	Status			.0/24	Enable	E	dit Delete
		test1				.0/24	Enable	E	dit Delete
		test2			Cancel	OK	Enable	E	dit Delete
									e.
«Collapse									

🛕 Note

- Service type: select PPTP.
- Network mode: select router to router.
- Peer Subnet: fill in the internal network segment of the branch. Please do(not to overlap with the internal network segment of the headquarters).

(2) On the Clients side (take Windows 10 as example):

Enter Control Panel-Network and Internet-Network and Sharing Center



Reyee Cookbook

Control Paral Kines System and Skoring Methods us do taken and kines Prevent and Skoring Prevent and Skoring Conter Prevent and Skoring Conter <th>- · · · · · Control I</th> <th>anel > Network and Internet ></th> <th></th> <th>v ð</th> <th>Search Control Pane</th> <th>el Sa</th>	- · · · · · Control I	anel > Network and Internet >		v ð	Search Control Pane	el Sa
Carter Jane Horek Witer And Fording Witer And Fording <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
Speem and Source y Marken and Diares Marken and D	Control Panel Home	Network and Sharing Center				
Network and Namica Program Program<	System and Security	View network status and tasks Connect to a netwo	View network computers and devices			
Nature and source Persons Persons and Persons and Pe	Network and Internet	Internet Options	Delete browning birtoou and cookier			
regentar de Acceurs berevenidade Cate and degion Late and degion Late and stagion Late and stag	Hardware and Sound	Change your nonlepage (Manage browse add-on Informed)	s - beere browsnig riskoy and cookes			
Metwork and Sharing Certer	Programs	5end or receive a file				
Merion dand Shaining Center	Appearance and					
Network and Shaing Center — □ → * ↑ 2 Control Panel > All Control Panel Items > Network and Shaing Center > 0 Search Control Panel → * ↑ 2 Control Panel > All Control Panel Items > Network and Shaing Center > 0 Search Control Panel View your basic network information and set up connections > 0 Search Control Panel View your basic network information and set up connections > 0 Search Control Panel View your basic network information and set up connections > 0 Search Control Panel Public network Connections Access type: Internet Dublic network Connections @ Vief (Big-9) Used Area Connection Access type: Internet Connections Dublic network Connections: © Iscal Area Connection Connections Wief (Big-9) Set up a nouter or access point. Set up a nouter or access point. Image Source connection or network Set up a nouter or access point. Set up a nouter problems. Image Source and repair network problems, or get troubleshoeting information. Diagnose and repair network problems, or get troubleshoeting information.	Personalization					
Network and Sharing Center	Clock and Region					
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Public network Connections: Local Area Connection Change your networking settings Set up a new connection or network Set up a broadband, dial-up, or VPN connection; or set up a router or access point. Troubleshoot problems Diagnose and repair network problems, or get troubleshooting information.	Network and Sharing Center $\Rightarrow \sim \uparrow \textcircled{2} > Control I Control Panel Home Change adapter settings Change advanced sharing settings Media streaming options$	anel > All Control Panel Items > Network and Sharing Center View your basic network information and set of View your active networks Big4 Public network	up connections ccess type: Internet ionnections: MWi-Fi (Big4)	~	වී Search C	ontrol Panel
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Internet Options Windows Defender Firewall

b Configure VPN connection

 \times \leftarrow 💇 Set Up a Connection or Network Choose a connection option Connect to the Internet Set up a broadband or dial-up connection to the Internet. Set up a new network Set up a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace Next Cancel × 🜆 Connect to a Workplace ← Do you want to use a connection that you already have?



←	Connect to a Workplace		×
	How do you want to connect?		
	→ Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.		
	→ Dial directly Connect directly to a phone number without going through the Internet.		J
		Cano	el :
←	Connect to a Workplace		×
	Type the Internet address to connect to		
	Your network administrator can give you this address.		
	Internet address: 172.26.6.190 The WAN IP of HQ		
С. ст	Destination name: VPN Connection		
	 Use a smart card Remember my credentials Allow other people to use this connection 		
	This option allows anyone with access to this computer to use this connection.		
	Create	Cance	el

c Change adapter's setting.

Reyee Cookbook



	Control David on Material and	······				Court Mark		
→ * T * *	Control Panel > Network and I	nternet > Network Connections		~	O	Search Netwo	ork Co	
anize 🔻 🛛 Start th	nis connection Rename this	connection Delete this connection	on Change settings of this connection			1		
ALMA Disconnected WAN Miniport	t (PPTP)	Bluetooth Network Connection Not connected Bluetooth Device (Personal Area	Ethernet 2 Network cable unplugged Realtek PCIe GBE Family Controller	Local Area Con Local Area Con TAP-Windows A	nection nection dapter	V9 for Ope		
Ruijie MY Disconnected WAN Miniport	Connect / Disconnect Status Set as Default Connection Create Copy Create Shortcut Pelete Rename Properties	VPN Connection Diamond in the second seco	Wi-Fi Big4, Shared Intel(R) Wi-Fi 6 AX200 160MHz					

Reyee Cookbook

anoral option	ns Security	Networking	Sharing	
Type of VPN:				
Point to Point	Tunneling Pr	otocol (PPTP)		~
			Advanced	settings
Jata encryptio	n:			
Uptional encry	yption (conne	ect even if no e	ncryption)	~
Authenticatio	n			
O Use Exter	nsible Authen	tication Protoc	ol (EAP)	
				\sim
			Proper	rties
	o orato o la			
Allow these	SE DIDIDCOIS			
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Allow these	se protocois			
Allow thes	rypted passw	ord (PAP)		
 Allow these Unence Challer 	se protocois sypted passw nge Handsha	rord (PAP) ke Authenticat	ion Protocol (CH	AP)
 Allow these Unence Challer Micros 	rypted passw nge Handsha roft CHAP Ve	vord (PAP) ike Authenticat rsion 2 (MS-CH	ion Protocol (CH. AP v2)	AP)
 Allow thes Unence Challer Micros Au 	aypted passw nge Handsha oft CHAP Ve tomatically us	vord (PAP) Ike Authenticat rsion 2 (MS-CH se my Windows	ion Protocol (CH AP v2) s logon name and	AP)
 Allow thes Unence Challer Micros Au pa 	crypted passw nge Handsha oft CHAP Ver tomatically us ssword (and o	rord (PAP) ike Authenticat rsion 2 (MS-CH se my Windows domain, if any)	ion Protocol (CH AP v2) I logon name and	AP)

d Check the Status of Connect VPN Connection Status.



Windows Security Sign in	×
User name	
Password	
OK	Cancel



e If your PC can't reach HQ internal devices(192.168.10.0/24) after VPN connected. Add the following static route on your PC. The 192.168.100.2 is the PC's IP get from HQ. Then PC can reach HQ internal devices normally.

C:\Users\Daisy>route add 192.168.168.10.0 mask 255.255.255.0 192.168.100.2

Site to Site Scenario Configuration

(1) On the HQ side:

- a Log in to Reyee EG by the default IP 192.168.110.1.
- b Click Setup->VPN->PPTP and then enable PPTP, choose PPTP type as Server.

Reyee Cookbook

Rujje	20211224 > EG105G-P-V2 (Maxim) 0	English ~ _ Ruijie Cloud ᅊᅥgDownload App		<u>満</u> Warn ☐ Default Password
옪Overview	Device Info	<i>l</i> i-Fi		Setup>
Online Clients	Hostname: EG105G-P-V2			
A Router		Primary Wi-Fi: 20211224 Security: Yes	Guest Wi-Fi: Security: No	
♥Wireless	Software Ver: ReyeeOS 1.55.1914			
☐ Switches				
	Net Status (Online Devices / Total)	0.00bps Suph	হ 🖠	Refresh Q
	DHCP 1	0/0 0	/0 0	
	Internet Router	Switches A	Ps Online Clients	
	Real-Time Flow (Kbps)			Kbps V WAN V
	1	Uplink Flow Downlink Flow		
	0.8			
	0.6-			
	0.4 -			A
Collapse	0.2			

Ruíjie Rcycc	Cloud_Auth_Test > EG105G-P [Minister] 0		English ~ 🛆 Ruijie Cloud	調Download App 合 Network Setup	@ Network Check <u>M</u> Warn ☐ Log Out
ි Overview ම Online Clients ඬ Router	Hostname: EG105G-P SN: EG105G-P Overview Basics > Security > Behavior > VPN ^ //	H1PTATC001746 IP: 172.26.5.253 Advanced ~ Diagnostics ~ System ~	MAC: C088E635:28:3C		() Reboot
	PPTP Settings Tunnel List				
Switches	PPTP Settings PPTP				0
至Network ~	Enable VPN Client PPIP Type Server Client * Local Address 192.168.100.1 * IP Range 192.168.100.2-192.168.100.254 * DNS Server 8.8.8 * PPP Helio Interval 10	s seconds			
«Collapse	Save				e.

c Configure the PPTP settings and click Save.

Reyee Cookbook

Ruíjie Rcycc	EWEB_COB8E62149FD > E(5105G-P (Missier) 🛛	Operati	ion succeeded.	I 鷭 Download App	Network Setup	Network Check	<u>南</u> Warn	🕞 Log Out
중 Overview ⑧ Online Clients	PPTP Settings Tunnel	List							
A Router	PPTP Settings								0
	Enable PPTP		-						
Switches The second	* Local Address	• PPTP Server • PP	IP Client						
	* IP Range	192.168.100.1	00.254	0					
	* DNS Server	8.8.8.8							
	* PPP Hello Interval	10		seconds					
		Save							
«Collapse									Ai

d Configure VPN client.

Ruíjie sRcycc	Unknown Name > EG-gateway [Maxim] 0		English 🗸 🙆 🖁	2 e @ ă 🖯
ంర్ Overview (8) Online Clients	Hostname: EG-gateway • EG105G-P IP: 172.26.5.46	SN: H MAC: EC:B9:70:17:39:35		(1) Reboot
A Router	Overview Basics \checkmark Security \checkmark Behavior \checkmark	VPN ^ Advanced Y Diagnostics Y System	<i>y</i>	
†Wireless ∨	<i>i</i> VPN Clients	IPSec L2TP		0
Switches	VPN Client List	PPTP VPN Clients	+ Add	Delete Selected
	Up to 32 entries can be added.			
	Username Password	Service Type Network Mode Peer Subnet	Status	Action
		No Data		
				(?
≪Collapse				
Reyee Cookbook

Ruijie Reyce	EWEB_C0B8E62149FD > EG105G-P (Withhad									
^g aOverview	Hostname: EG105G									
Online Clients	• EG105G-P MAC: C0:88:EF	Add User			×				(U) Reboot	
Router	Overview Basics ~ Security ~ Beh	Service Type	РРТР							
	1 VPN Clients	* Username	test						0	
Switches	VPN Client List	* Password	12345678		0			+ Add	Delete Selected	
#: Network	Up to 30 entries can be added.									
	Username	Network Mode	Router to Router			et	Status		Action	
		* Peer Subnet	192.168.110.0/24							
		Status								
					_					
				Cancel	ОК					8.
«Collapse										

🛕 Note

The Peer Subnet is the local IP range of its branch.

On the Branch side:

a Log in to the Reyee EG by the default IP 192.168.110.1.

b Click Setup->VPN->PPTP and then enable PPTP, choose PPTP type as Client.

Ruijie Rcycc	Cloud_Auth_Test > EG105G-P [Winster] 0			English 🗸 🛆 Rui	ie Cloud 🛛 🔡 Download App	Network Setup	Network Check	凿Warn ⊡Log Out
응Overview 응Online Clients	Hostname: EG105G-P	SN: H1PTATC001746	IP: 172.26.5.253	MAC: C0:88:E6:35:28:3C				() Reboot
⊗Wireless	PPTP Settings Tunnel List	IPSec L2TP	ostics * System *					
*Network ·	PPTP Settings Enable	VPN Clients						0
	Save							
								é
"Collanse								-

Reyee Cookbook

Ruíjie Rcycc	GTAC_Reyee > EG (Master)	•	English ~ _ (☐ Ruijie Cloud	器Download App	Network Setup	Network Check	<u>満</u> Warn	Default Password
© Opling Clients	Enable PPTP								
Router	PPTP Type	PPTP Server O PPTP Client							
	* Username	test							
Switches	* Password		0						
$\frac{-m_{-}}{-m_{-}}$ Network	Interface	WAN							
	Tunnel IP	Dynamic 🔘 Static							
	* Server Address	172.26.6.190							
	* Peer Subnet	192.168.10.0/24							
	Work Mode	NAT OROuter							
	* PPP Hello Interval	10	seconds						-
«Collapse	1 1	Savo							

🛕 Note

- PPTP type: select PPTP Client
- Username and password: Fill in the username and password Which have been added in the headquarters
- Tunnel IP: Tunnel IP address is the address in the IP range of the address pool filled in by the headquarters. Selecting dynamic means assigning the IP address of the address pool randomly. Selecting static means that, any addresses in the address pool can be entered by yourself without conflict.
- Server address: Fill in the WAN port address of the headquarters (public network IP is required. This is a test, so it is a private network address).
- Peer Subnet: the internal network segment of the headquarters (do not overlap with the internal network segment of the branch).
- Work mode: The work mode here refers to whether the headquarters is allowed to access the branch intranet, if it is allowed, select [Router], if not, select [NAT].

c Check the VPN connection status.

PPTP Sett	ings Tunnel List							
() Tu	unnel List							0
							1	Delete Selected
	Username	Server/Client	Tunnel Name	Virtual Local IP	Access Server IP	Peer Virtual IP	DNS	Action
	test	Server	ppp0	192.168.100.1	172.26.5.237	192.168.100.2	8.8.8	Delete

4.1.8.2 L2TP VPN

L2TP VPN usually is used for the clients to site scenario and site to site scenario. For example, clients work from home but he need to access company server through L2TP VPN tunnel. Another example is that a company has three branches which are distributed in three different places of the Internet, and everyone need to establish a tunnel with each other by a gateway.

Clients to Site Scenario Configuration

On the HQ side:

- a Log in to Reyee EG by the default IP 192.168.110.1.
- b Click Setup->VPN->L2TP and enable L2TP.



Rujje ®Rcycc	text2 > EG-gateway (Mantar)	English ~ 🛆	20 A A A A A A A A A A A A A A A A A A A
© Online Clients	Restr Hostname: EG-gateway • EG105G-P IP: 172.26.5.46 Overview Basics × Security × Behavior ×	SN: H MAC: ECibs.ro. 17.39.35 VPN ^ Advanced ~ Diagnostics ~ System ~	(U) Reboot
Switches	L2TP Settings Tunnel List	L2TP PPTP VPN Clients	0
	L2TP Type • Server Client * Local Address 192.168.100.254		e.
≪ Collapse	* IP Range 192.168.100.1-192.168.10	0.253	

c Configure the L2TP setting and click **Save**.

Configuration

Ruíjie Rcycc	Cloud_Auth_Test > EG1050	3-P (Maana) O				English ~	△ Ruijie Cloud	譴Download App	A Network Setup	Network Check	<u>満</u> Warn 日Log Out
ింOverview ⊗Online Clients @Router	• EG105G-P Overview Basics ~	Hostname: EG105G-P SN: Security ~ Behavior ~ VPN ~ A	dvanced ~ Diagnostics	IP: 172.26.5.253 ~ System ~	MAC: COF	зс					() Reboot
♥Wireless	L2TP Settings Tunnel I	List									
Switches	12TP Settings										0
書Network ~	Enable										
	L2TP Type	Server 🔘 Client									
	* Local Address	10.0.0.1									
	* IP Range	10:0.0.2-10.0.0.254	•								
	DNS Server	8.8.8.8									
	IPSec Security	Open v									
	* PPP Hello Interval	10	seconds								
		Save									e
< Collapse											1

d Configure VPN clients

Ruijie Rcycc	Unknown Name > EG-gateway [Master] 0		English 🗸 🛆 🖁	18 e @ 16 -
చిOverview ® Online Clients	Hostname: EG-gateway • EG105G-P IP: 172.26.5.46	SN: H MAC: EC:B9:70:17:39:35		() Reboot
Router	Overview Basics ~ Security ~ Behavior ~	VPN ^ Advanced Y Diagnostics Y System Y	~	
Switches	7 VPN Clients	L2TP		0
-=- -=-Network ~	VPN Client List	VPN Clients	+ Add	🛍 Delete Selected
	op to 52 entries can be added.			
	Username Password	Service Type Network Mode Peer Subnet	t Status	Action
		No Data		
«Collapse				

Rujje	GTAC_Reyee > EG-gatewa	/ Monter) O			li i	English ~	0 8	¢	@ .	m 🗗
ஃOverview					1					
Online Clients	• EG105G-P	Add User		X					() Re	boot
	Overview Basics ~	Service Type	ALL	\times	System ~					
♥Wireless	<i>i</i> VPN Clients	* Username	test1							?
Switches	VPN Client List	* Password		\odot		+ A0	ld	🗇 Del	ete Selec	cted
[™] [™] / ₁ Network ∨	Up to 32 entries can l	Network Mode	PC to Router	~						
	Username	Status			r Subnet	Sta	itus		Action	
			Cancel	ОК						(? _
« Collapse										

🛕 Note

- The local address and the IP range of address pool cannot conflict with the internal network address of the device.
- Local address: Local address is the local virtual IP of the VPN tunnel. The PC can access the server through this address after dialing in.
- Address pool IP range: The IP address pool assigned by the L2TP servers to the clients.
- The PPP link maintenance interval is the default, which refers to the interval at which PPP link maintenance detection messages are sent after PPTP is connected.

On the Clients side (take Windows 10 as example):

a Enter Control Panel→Network and Internet→Network and Sharing Center





Reyee Cookbook

		 and the second second	-
Control Panel Home	Network and Sharing Center		
System and Security	View network status and tasks Connect to a network View network computers and devices		
Network and Internet	Internet Options		
Hardware and Sound	Manage browser add-ons Delete browsing history and cookies		
Programs	1 Infrared		
User Accounts	Send or receive a file		
Appearance and Personalization			
Clock and Region			
Ease of Access			

b Configure VPN connection

	View your basic network informa	tion and set up connections	
Control Panel Home	view your basic network informa	tion and set up connections	
hange adapter settings	View your active networks		
hange advanced sharing	Big4	Access type: Internet	
ettings Andia atomacian antiona	Public network	Connections: Wi-Fi (Big4)	
neula streaming options			
	Local Area Connection	Access type: No Internet access	
	Public network	Connections: 🎴 Local Area Connection	
	Change your networking settings Set up a new connection or netwo Set up a broadband, dial-up, or V	ork PN connection; or set up a router or access point.	
	Troubleshoot problems Diagnose and repair network prob	plems, or get troubleshooting information.	

See also Internet Options Windows Defender Firewall

 \times

 Set Up a Connection or Network
 Choose a connection option

 Connect to the Internet Set up a broadband or dial-up connection to the Internet. Set up a new network Set up a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace Next Cancel Connect to a Workplace Connect to a Workplace Connect to a Workplace Next Cancel O you want to use a connection that you already have? No, create a new connection Yes, I'll choose an existing connection Yes, I'll choose an existing connection Ruijie Demo WAN Miniport (PPTP) Ruijie Demo WAN Miniport (PPTP) ALMA WAN Miniport (PPTP) 					
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Set up a new retwork Set up a new router or access point. Manually connect to a wireless network Connect to a workplace Connect to a workplace Set up a dial-up or VPN connection to your workplace. Next Cancel Next Cancel Next Cancel Connect to a Workplace Do you want to use a connection that you already have? No, create a new connection O Yes, I'll choose an existing connection O Yes, I'll choose an existing connection ALMA WAN Miniport (PPTP) WAN Miniport (PPTP) WAN Miniport (PPTP) WAN Miniport (PPTP) Connect (PPTP)	-				
Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace Next Cancel Next Cancel Connect to a Workplace Do you want to use a connection that you already have? No, create a new connection O Yes, I'll choose an existing connection Ves, I'll choose an existing connection Connect (PPTP) Ruijie Demo WAN Miniport (PPTP) WAN Miniport (PPTP) ALMA WAN Miniport (PPTP) ALMA	Se Se	t up a new network t up a new router or access point.			
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Connect to a Workplace Next Cancel - - Connect to a Workplace - Connect to a Workplace - Do you want to use a connection that you already have? • Image: No, create a new connection • Yes, I'll choose an existing connection • Ruijie MY • WAN Miniport (PPTP) • ALMA WAN Miniport (PPTP)		annact to a workplace			
 Next Cancel Connect to a Workplace Do you want to use a connection that you already have? No, create a new connection Yes, I'll choose an existing connection Yes, I'll choose an existing connection Walk Miniport (PPTP) Ruijie Demo WAIN Miniport (PPTP) ALMA WAIN Miniport (PPTP) 	Se Se	t up a dial-up or VPN connection to your workplace.			
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Carl WAN Miniport (PPTP)		LIMA			
v		🐨 🐻 WAN Miniport (PPTP)			

Cancel

Next

		_]	×
←	Connect to a Workplace			
	How do you want to connect?			1
	→ Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Inter	net.		
	ing			
	→ Dial directly Connect directly to a phone number without going through the Internet.			
	ing ing ing ing ing			
			Cance	:
		_	×	3
-	Connect to a Workplace			
	Type the Internet address to connect to			
	Your network administrator can give you this address.			
	Internet address: 172.26.6.190 The WAN IP of HQ			
	Destination name: VPN Connection			
		_		
	Use a smart card			
	Remember my credentials			
	😌 🗌 Allow other people to use this connection			

This option allows anyone with access to this computer to use this connection.

Create Cancel

c Change adapter's setting.

🛧 💺 > Control P					- C	כ	×
	anel > All Control Panel Items > Network and Shar	ring Center	~	õ	Search Control I	Panel	Q
Control Panel Home	View your basic network information	and set up connections					
Change adapter settings Change advanced sharing settings Media streaming options	View your active networks Big4 Public network	Access type: Internet Connections: 🚮 Wi-Fi (Big4)					
	Local Area Connection Public network	Access type: No Internet access Connections: Q Local Area Connection					
	Change your networking settings Set up a new connection or network Set up a broadband, dial-up, or VPN co Troubleshoot problems Diagnose and repair network problems	onnection; or set up a router or access point. s, or get troubleshooting information.					
See also Internet Options Windows Defender Firewall							
Network Connections					-		>
	anel > Network and Internet > Network Connectic	ons	~	Ö	Search Networ	rk Co	Q
rganize 👻 Start this connec	tion Rename this connection Delete this co	onnection Change settings of this connection			₩		•
ALMA Disconnected WAN Miniport (PPTP) Ruijie MY Disconnected	Bluetooth Network Connection Not connected Bluetooth Device (Personal A VPN Connection	ion Reatek PCIe GBE Family Controller Wi-Fi Big4, Shared	Local Area Cor Local Area Cor TAP-Windows	nection inection Adapte	n r V9 for Ope		
See Critical Construction Const	tus as Default Connection aate Copy aate Shortcut lete name sperties	adll Intel(R) Wi-Fi 6 AX200 160MHz					



d Check the Status of Connect VPN Connection Status.



Windows Security Sign in	×
User name	
Password	
ОК	Cancel



e If your PC can't reach HQ internal devices(192.168.10.0/24) after VPN connected. Add the following static route on your PC. The 192.168.100.2 is the PC's IP get from HQ. Then PC can reach HQ internal devices normally.

C:\Users\Daisy>route add 192.168.168.10.0 mask 255.255.255.0 192.168.100.2

Site to Site Scenario Configuration

On the HQ side:

- a Log in to Reyee EG by the default IP 192.168.110.1
- b Click Setup->VPN->L2TP and then enable L2TP, choose L2TP type as Server.

Reyee Cookbook

Rujje SRcycc	20211224 > EG105G-P-V2 (Manter) 0	English ~ 🛆 Ruijie Cloud	跛Download App 🛕 Network Setup @ Network C	heck 📺 Warn 🕞 Default Password
윩Overview	Device Info Setup>	Wi-Fi		Setup>
Online Clients	Hostname: EG105G-P-V2			
Router	SN: F IP: 1/cm/outor EG105G-P-V2 MAC: 00/D0:E8:15:08:43	Primary Wi-Fi: 20211224 Security: Yes	Guest Wi-Fi: Security: No	
♥Wireless	Software Ver: ReyeeOS 1.55.1914			
☑ Switches				
	Net Status (Online Devices / Total)			Refresh C
Network 🗸		↓ 0.00bps		
	DHCP 1	0/0	0/0 0	
	Internet Router	Switches	APs Online Clie	nts
	Real-Time Flow (Kbps)			Kbps V WAN V
	1	Uplink Flow Downlin	k How	
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	0.0			
	0.4			4
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Ruíjie I & Rcycc	Cloud_Auth_Test > EG105G-P [Master] 0		English 🗸 🛆 🎇	1 & @ ¤ -
20 Overview	Router Hostname: EG105G-P	SN: H1PTATC001746		() Reboot
Online Clients	EG105G-P	MAC: CU.BO.E0.35.20.3C		
A Router	Overview Basics Y Security Y Behavio	or ~ VPN ^ Advanced ~ Diagnostics ~	System ~	
	L2TP Settings Tunnel List	IPSec		
🗟 Switches	1 L2TP Settings	PPTP		?
-a- Network	Enable	VPN Clients		
	L2TP Type 🧿 Server 🔷 Clie	ent		
	* Local Address 192.168.100.254			e
Collapse	IP Range 192.168.100.1-192.	168.100.253		4

c Configure the L2TP settings and click **Save**.

Ruíjie I Rcycc	Cloud_Auth_Test > EG105G	oud_Auth_Test > EG105G-P (Master) 0				٩	Q	ы	₿
^d ∂Overview	<i>i</i> L2TP Settings							0	
⊗ Online Clients	Enable								
Router	L2TP Type	Server Client							
E Switches	* Local Address	192.168.100.254							
-a- -a-Network ∽	IP Range	192.168.100.1-192.168.100.253	0						
	* DNS Server	8.8.8.8							
	IPSec Security	Open V							
	* PPP Hello Interval	10	seconds						
	l l	Save							4
«Collapse									

d Configure VPN client.

Ruíjie SRcycc	Unknown Name > EG-gateway (Manter) 0		English 🗸 🛆 💈	# @ ¤ -
ి Overview ® Online Clients	Hostname: EG-gateway • EG105G-P IP: 172.26.5.46	SN: H MAC: EC:b9:70:17:39:35		() Reboot
Router Wireless	Overview Basics Y Security Y Behavior Y	VPN ^ Advanced > Diagnostics > System *	×	
Switches	<i>i</i> VPN Clients	L2TP		0
-o- -o- -o-Network ∽	VPN Client List	VPN Clients	+ Add	Delete Selected
	Username Password	Service Type Network Mode Peer Subnet	Status	Action
		No Data		
				e
«Collapse				

Reyee Cookbook

Rujje	GTAC_Reyee > EG-gatew	Add User			×	E	nglish 🗸 🛆		<u>a</u>	ল	₿
² Overview	Router	Service Type	ALL	~					(h) P	abaat	
(8) Online Clients	• EG105G-P	* Username	test1			C					
₩ Kouter	Overview basics	* Password	•••••		0	System ·				0	
Switches	VPN Clients	Network Mode	Router to Router	~			t Add	1	Doloto Sol	()	
-a- -a- Network ∽	Up to 32 entries can l	* Peer Subnet	192.168.110.0/24				- Add		Delete Sel	ecteu	
	Username	Status				r Subnet	Status		Actio	n	
				Cancel	ОК						6
Collapse											

🛕 Note

The Peer Subnet is the local IP range of its branch.

On the Branch side:

- a Log in to the Reyee EG by the default IP 192.168.110.1
- b Click Setup->VPN->L2TP and then enable L2TP, choose L2TP type as Client.

Ruijie Rcycc	Cloud_Auth_Test > EG105G-P (Mastar) 0		English 🗸 🔿 Ruijie Cloud	20 Download App	A Network Setup	Network Check	☆Warn ြ→Log Out
움Overview	Hostname: EG105G-P	SN: H1PTATC001746	IP- 172 26 5 253				
Online Clients	• EG105G-P MAC; C0:88:E6:35:28:	30, 111 M COOT 40	IF. 11 EEGSLESS				(U) Reboot
Router	Overview Basics Y Security Y Behavior	VPN ^ Advanced ~ Diagn	ostics ~ System ~				
⇔Wireless ~	L2TP Settings Tunnel List	IPSec					
Switches	12TP Settings	РРТР					0
Network 🗸	Enable Client	VPN Clients					
	* Username Branch						
	* Password	\odot					
	Interface WAN						
	Tunnel IP 🧿 Dynamic 🛛 Stati	c					6
≪Collapse	* Server Address 172.26.5.237						

Ruíjie Rcycc	GTAC_Reyee > ReyeeEG (Mitmin) 0	English ~ Ruijie Cloud 📓 Download App 🔞 Network Setup - @ Network Check	<u>à</u> Warn ⊡Log C
8°5 Overview	12TP Settings		0
Online Clients	Enable		
Router	L2TP Type 🔘 Server 🔹 O Client		
♥Wireless	* Username test1		
	* Password	•	
	Interface WAN		
	Tunnel IP O Dynamic O Static		
	* Server Address 172.26.6.190		
	* Peer Subnet 192.168.10.0/24		
	IPSec Security Open		
	Work Mode O NAT O Router		
	* PPP Hello Interval 10	seconds	
	Save		
« Collapse			

🛕 Note

- Work Mode description:
- NAT: NAT the incoming L2TP packets (Replace the source IP address with the local virtual IP address).
- Router: Only route the incoming L2TP packets.

c Check the VPN connection status

L2TP Setti	ngs Tunnel List							
() Tu	unnel List							?
								Delete Selected
	Username	Server/Client	Tunnel Name	Virtual Local IP	Access Server IP	Peer Virtual IP	DNS	Action
	test1	Client	l2tp	192.168.30.1	172.26.6.190	192.168.30.254	8.8.8.8	Delete

4.1.8.3 IPsec VPN

IPsec VPN is used for Site to Site scenario. For example, three branches of a company are distributed in three different places of the internet. And every branch uses a gateway to establish tunnels with everyone, and the data between the corporate intranets (several PCs) is securely interconnected through the IPSec VPN tunnel established by these gateways.

Site to Site Scenario Configuration

On the HQ side:

- a Log in to Reyee EG by the default IP 192.168.110.1.
- b Click Setup > VPN > IPSec > Add the policy.

Reyee Cookbook

Rujje	20211224 > EG105G-P-V2 (Minster)	English ∽ Ruijie Cloud	뙗Download App	斎Warn 日 Default Password
 ♣ Overview ⊗ Online Clients ■ Router ♥ Wireless 	Device Info Setup> Hostname: EG105G-P-V2 SN: 1 IP: 1 / newoword MAC: 00C0/RE1508.433 Software Ver: ReyeeOS 1.55.1914	WI-FI Primary WI-FI: 20211224 Security: Yes	Guest Wi-Fi:	Setup>
골 switcnes 출 Network · ·	Net Status (Online Devices / Total)	↓ 0.00bps	ିକ 0/0 0 APs Online Clients	Refresh ©
	Real-Time Flow (Kbps)			Kbps 🗸 WAN 🗸
	1	- — Uplink Flow - — Downlink	Flow	
	0.8-			
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	Cloud_Auth_Test > EG105G-P (Maxim)	English 🗸 🕜 Ruijie Cloud	쮋 Download App 🔮 Network Setup @ Network C	check 🛕 Warn 🕞 Log Out
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Rujje SRCyco	Cloud_Auth_Test > EG105G-P [Maxim] Router Hostname: EG105G-P ■ EG105G-P MAC: C0:88:E6:35:26:3C	English ~ Ruijie Cloud	뙗Download App	Check 현 Warn 다 Log Out
Overview Online Clients Action	Cloud_Auth_Test > EG105G-P [Mineter]	English ~ _ Ruijie Cloud	Download App Onetwork Setup Onetwork C	čheck <u>M</u> i Warn ⊖Log Out
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ی ی ی ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا	Cloud_Auth_Test > EG105G-P [Millionton] • • EG105G-P Hostname: EG105G-P • EG105G-P MAC: C0.88:E6:35:28:3C Overview Basics × Security × Behavior × VPN × IPSec Security Policy IPSec Connection Status L2TP	English >Rujjie Cloud	設Download App	check <u>M</u> i Warn ⊖Log Out
ROUTE RCVCC Solution Reverse Router Wireless Switches Switches	Cloud_Auth_Test > EG105G-P [Minorent] O Receive Hostname: EG105G-P • EG105G-P Overview Basics \checkmark Security \checkmark Behavior \checkmark VPN \land IPSec Security Policy IPSec Connection Status IPSec IZTP IPSec Security Policy IPSec	English ~ _ Ruijie Cloud	Download App ♠ Network Setup ♠ Network C IP: 172.26.5.253	čheck <u>M</u> Warn ⊖Log Out
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کی کی کی Overview ۲ Online Clients ۲ Router ۲ Wireless ۲ Switches ۲ Network	Cloud_Auth_Test > EG105G-P Minimum Hostname: EG105G-P • EG105G-P MAC: C0:B8:E6:35:28:3C Overview Basics > Security > Behavior > VPN > IPSec Security Policy IPSec Connection Status IPSec Security Policy IPSec Securi	English Cloud	Download App ♦ Network Setup ● Network C IP: 172.26.5.253 System ~	iheck ği Warn ⊖Log Out
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Provide and the second seco	Cloud Auth_Test > EG105G-P Minimum Hostname: EG105G-P • EG105G-P MAC: C0:B8:E6:35:28:3C Overview Basics × Security × Behavior × VPN ~ IPSec Security Policy IPSec Connection Status IPSec Security Policy Note: Example: IP address/number of subnet mas Tip: If it is set to 192.168.110 x/24, the address rai VPN Cli Policy List Up to 1 entries can be added. Policy Type Policy Name Peer Gateway	English Cloud N: F Advanced Control Advanced Control Advanced Control Local Subnet		theck ği Warn ⊖Log Out (*) Reboot (*) Reboot (*) Reboot (*) Reboot (*) Reboot
کی Coverview ۲ Coverview <t< td=""><td>Client test eksawadi.dyndh.or</td><td>English Cloud N: I Advanced Compared Diagnostics Advanced Compared Diagnostics Local Subnet 192.168.110.0/24</td><td>Download App Network Setup Network C IP: 172.265.253 System ~ System ~ System ~ System ~ System ~ Peer Subnet Status 192.168.6.0/24 Enable ©</td><td>theck ği Warn ⊖Log Out (¹) Reboot (²) Reboot</td></t<>	Client test eksawadi.dyndh.or	English Cloud N: I Advanced Compared Diagnostics Advanced Compared Diagnostics Local Subnet 192.168.110.0/24	Download App Network Setup Network C IP: 172.265.253 System ~ System ~ System ~ System ~ System ~ Peer Subnet Status 192.168.6.0/24 Enable ©	theck ği Warn ⊖Log Out (¹) Reboot (²) Reboot
Image: Contract of the second seco	Client test eksawadi.dyndns.org	English Cloud N: I Advanced Diagnostics ents Local Subnet 192.168.110.0/24	Download App Network Setup Network C IP: 172.265.253 System ~ System ~ System ~ System ~ System ~ Peer Subnet Status 192.168.6.0/24 Enable ©	thedk ¥ Warn ⊖Log Out () Reboot () Reboot () Reboot () Reboot () Reboot () Reboot () Reboot () Reboot
Collect South Wireless Switches Network	Clent test eksawadi.dyndns.or	English Cloud Ruijie Cloud N: F Advanced Diagnostics International Advanced Local Subnet 192.168.110.0/24	Download App Network Setup Network C IP: 172.265.253 System ~ System ~ System ~ System ~ System ~ Peer Subnet Status 192.168.6.0/24 Enable ©	check ği Warn ☐ Log Out ()

c Configure the IPsec VPN Security Policy.

Ruíjie Reyce	Cloud_Auth_Test > EG105G-P (Miniter) 0					<u>ă</u> Warn [→Log Out
^e o Overview	Hostnar		, i			(manager)
(a) Online Clients	• EG105G-P M/ Add		×			() Reboot
Router	Overview Basics Security Policy Typ	e Client Server				
♥Wireless	IPSec Security Policy IPSec Co * Policy Nam	test				
Switches	IPSec Security Policy Note: Example: IP address/n Tip: If it is set to 192,168,110	WAN WAN	~ Ø			0
	* Local Subn	et 192.168.113.0/24				+ Add
	* Pre-shared K Up to 1 entries can be added.	ruijie123				
	Policy Type Policy Nan	21	ber	Subnet	Status	Action
		1. Set IKE Policy 2. Connection Policy				4
«Coliapse		Cancel	ок			

Configuration

Rujje Rcycc	Cloud_Auth_Test > EG105G-P.10		1. Set IKE Policy	🗝 op		岗Warn ⊡Log Out
So Overview		IKE Policy 1	sha1-3des-dh1 \lor			
Online Clients	EG105G-P Mostnar	IKE Policy 2	sha1-des-dh1			(U) Reboot
Router	Overview Basics - Securit	IKE Policy 3	sha1-3des-dh2 \lor			
♥Wireless	IPSec Security Policy IPSec Co	IKE Policy 4	md5-des-dh1 \lor			
Switches	IPSec Security Policy Note: Example: IP address/n	IKE Policy 5	md5-3des-dh2 \lor			0
	Tip: If it is set to 192.168.110					
	Policy List	Negotiation Mode	Main Mode Aggressive Mode			+ Add
	Up to 1 entries can be added.	Local ID Type	IP NAME			
	Policy Type Policy Nan	Peer ID Type	IP NAME	eer Subnet	Status	Action
	_	* Lifetime	86400			e
Collarse		DPD	• Enable 🔘 Disable			Ai
		20				
Ruijie I Rcycc	Cloud_Auth_Test > EG105G-P110	* Lifetime	86400	op 🔮 Network Setup	@ Network Check	凿Warn ⊟Log Out
& Overview	Rome	DPD	• Enable Disable			(U Reboot
(B) Online Clients	• EG105G-P	1000 L				
A Router	Overview Basics ~ Securit	 DPD Interval 	10			
			seconds			
🗇 Wireless 🚽						
	IPSec Security Policy IPSec Co		2. Connection Policy			
Switches	IPSec Security Policy IPSec Co IPSec Security Policy Note: Example: IP address/n	Transform Set 1	2. Connection Policy esp-sha1-aes128			0
∰Switches ∰Network ~	IPSec Security Policy IPSec Co IPSec Security Policy Note: Example: IP address/n Tip: If it is set to 192.168.11	Transform Set 1 Transform Set 2	2. Connection Policy esp-sha1-aes128 esp-md5-3des			0
@Switches ∰Network ~	IPSec Security Policy IPSec Co IPSec Security Policy Note: Example: IP address/n Tip: If It is set to 192.168.11 Policy List	Transform Set 1 Transform Set 2 Perfect Forward	2. Connection Policy esp-sha1-aes128 ~ esp-md5-3des ~	•		⑦ + Add
≣Switches ÆNetwork *	IPSec Security Policy IPSec Security Policy IPSec Security Policy Note: Example: IP address/n Tip: If it is set to 192.168.11 Policy List Up to 1 entries can be added.	Transform Set 1 Transform Set 2 Perfect Forward Secrecy	2. Connection Policy esp-sha1-aes128 ~ esp-md5-3des ~ none ~			() + Add
E Switches ÆNetwork *	PSec Security Policy IPSec Security Policy IPSec Security Policy Note: Example: IP address/in Tip: If it is set to 192.168.11 Policy List Up to: 1 entries can be added. Policy Type Policy Nam	Transform Set 1 Transform Set 2 Perfect Forward Secrecy * Lifetime	2. Connection Policy esp-sha1-aes128 esp-md5-3des and and and and and and and and	eer Subnet	Status	Add Action Action
a Switches ∰Network *	IPSec Security Policy List Up to 1 entries can be added. Policy Type Policy Name	Transform Set 1 Transform Set 2 Perfect Forward Secrecy * Lifetime	2. Connection Policy esp-sha1-aes128 esp-md5-3des none 3600	eer Subnet	Status	Add Action Action
∰Switches ∰Network	IPSec Security Policy IPSec Co IPSec Security Policy Note: Example: IP addressin Tip: If it is set to 192.168.11 Policy List Up to 1 entries can be added. Policy Type Policy Nam	Transform Set 1 Transform Set 2 Perfect Forward Secrecy * Lifetime	2. Connection Policy esp-sha1-aes128 v esp-md5-3des v none v 3600	eer Subnet	Status	() () () ()
Switches	PSec Security Policy PSec Security Policy PSec Security Policy Policy List Policy List Policy Type Policy Nam	Transform Set 1 Transform Set 2 Perfect Forward Secrecy * Lifetime	2. Connection Policy esp-sha1-aes128 esp-md5-3des none 3600 Cancel OK		Status	Action

On the Branch side:

- a Log in to the Reyee EG by the default IP 192.168.110.1.
- b Click Setup > VPN > IPSec and then Add the policy.

Reyee Cookbook

Rujje	20211224 > EG105G-P-V2 (Mustur) 0	English 🗸 🔗 Ruijie Cloud	譲Download App . 合 Network Setup . @ Network Check	<u>ந</u> ് Warn ☐ Default Password
윦Overview	Device Info	Wi-Fi		Setup>
Online Clients	Hostname: EG105G-P-V2			
A Router	Route IP: 1/cm/sources	Primary Wi-Fi: 20211224 Security: Yes	Guest Wi-Fi: Security: No	
⊚Wireless ∨	• EG105G-P-V2 MAC: 00:D0:F8:15:08:43 Software Ver: ReyeeOS 1.55.1914			
🗟 Switches				
-0- -0- Network	Net Status (Online Devices / Total)			Refresh O
	Contraction → 0.00bps DHCP 1	↓ 0.00bps 0 / 0	0/0 0	
	Internet Router	Switches	APs Online Clients	
	Real-Time Flow (Kbps)			Kbps ~ WAN ~
	1	Uplink Flow Downlink	k Flow	
	0.8			
	0.6			
	0.4			e
(Collopse	02			41
« conapse	V-6			

Ruíjie	Cloud_Auth_Test > EG105G-P [Mantar] 0	English 🗸 🕜 Ruijie Cloud	諁 Download App	@Network Check	☆Warn ┣Log Out
[₽] overview	Rotter Hostname: EG105G-P SI	N: I	IP: 172.26.5.253		
(8) Online Clients	• EG105G-P MAC: C0:B8:E6:35:28:3C				U Reboot
A Router	Overview Basics \checkmark Security \checkmark Behavior \checkmark VPN \land	Advanced \checkmark Diagnostics	✓ System ∽		
♥ Wireless	IPSec Security Policy IPSec Connection Status]			
🖾 Switches	IPSec Security Policy PPTP				0
-o- -o-Network ∨	Tip: If it is set to 192.168.110.x/24, the address rar VPN Clie	ents .168.110.254			Ċ
	Policy List				+ Add
	Up to 1 entries can be added.				
	Policy Type Policy Name Peer Gateway	Local Subnet	Peer Subnet	Status	Action
	Client test eksawadi.dyndns.org	192.168.110.0/24	192.168.6.0/24	Enable ⊘	Edit Delete
					4
« Collapse					

c Configure the IPSec Security Policy, make sure the IKE Policy and Connection Policy are same on both side.

Reyee Cookbook

Ruíjie ARcvcc	Cloud_Auth_Test > EG105G-P				pp - & Network Setup	@Network Check	∦ğ Wann [⊐iLog Qut∎
		Add		×			
6% Overview	Hostnar	Policy Type	O Client 🕕 Server				() Reboot
(2) Online Clients	• EG105G-P	* Policy Name	tast				
盘 Router	Overview Basics Y Security	Toney Hume	1831		_		
♥Wireless	IPSec Security Policy IPSec Co	* Peer Gateway	172.26.6.93	+			
Switches	IPSec Security Policy	Interface	WAN	0			0
Network 👋	Tip: If it is set to 192.168.110	* Local Subnet	192.168.10.0/24				0
	Policy List	Pro-Coloret		- -			+ Add
	Up to 1 entries can be added.	Feel Subher	192.168,113.0/24]+			
	Policy Type Policy Nan	* Pre-shared Key	ruijie123		ser Subnet	Status	Action
		Status					
			1. Set IKE Policy				e.
// Collansa		IKE Policy 1	sha1-3des-dh1				A
w.compte							
Ruijie ARcycc	Cloud_Auth_Test > EG105G-P		1. Set IKE Policy		op Network Setup		
⁰ a Overview		IKE Policy 1	sha1-3des-dh1				
(8) Online Clients	EG105G-P M	IKE Policy 2	sha1-des-dh1				() Reboot
A Router	Overview Basics - Securit	IKE Policy 3	sha1-3des-dh2				
Window		IKE Policy 4	md5-des-db1				
The last	IPSec Security Policy IPSec Co						
Switches	IPSec Security Policy Note: Example: IP address/n	IKE Policy 5	md5-3des-dh2				0
Setwork Setwork	Tip: If it is set to 192.168.110	Negotiation	Main Mode Aggressive Mode				
	Policy List	Mode					+ Add
	Up to 1 entries can be added.	Local ID Type	O IP O NAME				
	Policy Type Policy Nan	Peer ID Type	IP O NAME		eer Subnet	Status	Action
		* Lifetime	86400				
		090					6
«Collapse		DPD					
		* Lifetime	86400				
TRUIJIE &Rcycc	Cloud_Auth_Test > EG105G-P		00400		op 🔮 Network Setup	Q Network Check	: <u>満</u> Warn 금Log Out
o Overview	Hostnar	DPD	Enable Disable				
Online Clients	• EG105G-P	* DPD Interval	10				() Reboot
Router	Overview Basics - Securit		seconds				
♥Wireless ✓	IPSec Security Policy IPSec Co		2. Connection Policy				
A Switches	IPSec Security Policy	Transform Set 1	esp-sha1-aes128				
	Note: Example: IP address/n Tip: If it is set to 192.168.110	Transform Set 2	esp-md5-3des				0
	Policy List	Perfect Forward	none				
	Poncy List	Secrecy					T Add
	Up to 1 entries can be added.	* Lifetime	3600				
	Policy Type Policy Nan				eer Subnet	Status	Action
			Cancel	ОК			
		2					-
«Collapse							

d Check IPSec Connection Status.

Ruijie Royco	RyceNetwork1 > ruijieEG	(Master) O	English ~	3 Ruijie Cloud 💥 Download App	♦ Network Set	tup 🍓 Network Check	直Warn GLog Out				
∂ ₃ Overview		Hostname: NijieEG Sh	EG34942570019	p: 17226691							
Online Clients	• EG105G-P-V2	MAC: 00:00:F8:15:08:43					() Reboot				
Router	Overview Basics ~	Security ~ Behavior ~ VPN ~	Advanced \checkmark Diagnostics \sim	System ~							
\oplus Wireless \vee	IPSec Security Policy	PSec Connection Status									
Switches	1PSec Connection	Sec Connection Status (2)									
∰Network ~	IPSec Connection	Status					© Refresh				
	Name SPI	Direction Tunnel Endp	oint	Flow	Status Pro	tocol Al	porithm				
	test 32285484 80	in 172.26.6.93<177	192.168.1	13.0/24 < 192.168.10.0/24	ок і	AH Authent SP ESP Authent ESP S	ication: ication: SHA1 ocurity: AES-128				
	test 32564381 10	out 172.26.6.93>177	126.6.190 192.168.1	13.0/24> 192.168.10.0/24	ок і	AH Authent SP ESP Authent ESP S	ication: ication: SHA1 ecurity: AES-128				
«Collapse											

🛕 Note

If you HQ EG has no public IP configured under other external devices, you need to configure port mapping on external devices and configure **Local ID Type** as **NAME** on HQ and Branches.

4.1.8.4 L2TP Over IPsec VPN

L2TP over IPsec VPN usually is used for the Site to Site scenario and Client to Site scenario. For example, three branches of a company are distributed in three different places of the Internet, and everyone uses a gateway to establish tunnels with each other, and the data between the corporate intranets (several PCs) is securely interconnected through the L2TP over IPSec VPN tunnel established by these gateways, the staff who work at home can access company data through L2TP over IPSec VPN tunnel too.

On the HQ side:

- a Log in to Reyee EG by the default IP 192.168.110.1.
- b Click Setup->VPN->L2TP and choose IPsec Security.

Rujje Rcycc	20211224 > EG105G-P-V2 (Winstor) 0	English ∽ Ruijie Cloud 🕈	Download App 🛕 Network Setup 👰 Network Check	📺 Warn 🕞 Default Password
& Overview	Device Info	Wi-Fi		Setup>
Online Clients	Hostname: EG105G-P-V2			
A Router	SN: F IP: 1/2000005 • EG105G-P-V2 MAC: 00:D0:E8:15:08:43	Primary Wi-Fi: 20211224 Security: Yes	Guest Wi-Fi: Security: No	
⇔Wireless ~	Software Ver: ReyeeOS 1.55.1914			
E Switches				
ee Network	Net Status (Online Devices / Total)			Refresh Q
	6 1.00bps ↑ 0.00bps	↓ 0.00bps	· · · · · · · · · · · · · · · · · · ·	
	DHCP 1 Internet Router	0 / 0 Switches	0/0 0 APs Online Clients	
	Real-Time Flow (Kbps)			Kbps V WAN V
	11	Uplink Flow Downlink Flo	w	
	0.8			
	0.6			
	0.4			
≪Collapse	0.2			

Rujje	Cloud_Auth_Test > EG1050	G-P (Master) Ø	En	glish 🗸 🛆 Ruiji	e Cloud	뛣Download App	会 Network Setup	@Network Check	<u>済</u> Warn	🕒 Log Out
[₽] δ₀ Overview		FC10FC D				170 00 F 050				
(Online Clients	• EG105G-P	MAC: C0:B8:E6:35:28:3	C SN: HI	PIAIC001746		IP: 172.20.5.253			U R	teboot
Router	Overview Basics \sim	Security \sim Behavior \sim	VPN ^ Ad	vanced ~ Diag	gnostics ~	System ~				
♥Wireless	L2TP Settings Tunnel	List	IPSec							
🖻 Switches	i L2TP Settings		PPTP							0
-==- -==-Network		_	VPN Clients							U
	Enable									
	L2TP Type	Server O Client								
	* Local Address	10.0.0.1								
	* IP Range	10.0.0.2-10.0.0.254		0						
										e
≪Collapse	* DNS Server	8.8.8.8								
Ruíjie I & Reyce	Cloud_Auth_Test > EG1050	G-P (Master) Ø	En	glish ~ 🛆 Ruiji	e Cloud	뛇Download App	会 Network Setup	@ Network Check	<u>済</u> Warn	🕒 Log Out
~ Overview	* DNS Server	8.8.8.8								
(8) Online Clients	IPSec Security	Security	~							
A Router		[
ି Wireless 🌱	* Pre-shared Key	ruijie								
Switches	IKE Policy	sha1-3des-dh1								
	Transform Set	esp-sha1-aes128	~							
	Negotiation Mode	O Main Mode 🔿 Ag	ggressive Mode							
	Local ID Type	IP O NAME								
	* PPP Hello Interval	10		seconds						
										6
		Save								

🛕 Note

- PPP Hello Interval: The interval between hello messages on PPP over IPsec connection
- IPsec Auth: Whether to encrypt the tunnel or not.
- Pre-shared Key: A pre-shared key is required for IPsec encryption.
- Local ID Type: When your HQ WAN port set with public IP, you can choose IP, when your HQ WAN port set with private IP, you need to choose name and set DMZ on external device.
 - c Configure VPN clients and set clients, one is for branch EG, another is for PC.

Reyee Cookbook

	Tata - di China ant						
Ruíjie i fire cycc	Cloud_Auth_Test > EG10)5G-P [Master] ()	English ~		load App 🔮 Network	Setup @Network Ch	eck '☆ Warn 🕞 Log Out
ిం Overview @ Online Clients	Router • EG105G-P	Hostname: EG105G-P MAC: C0:88:E6:35:28:3C	SN: H1PTATC001	1746 IP: 172.2	6.5.253		(1) Reboot
Router	Overview Basics ~	Security \vee Behavior \vee	VPN ^ Advanced	 Diagnostics System 	m ~		
♥ Wireless	<i>i</i> VPN Clients		IPSec				0
Switches	VPN Client List		РРТР			+ Add	Delete Selected
$^{+0-}_{+0-}$ Network	Up to 32 entries can	be added	VPN Clients				
	llearnam	e Password	Service Type	Network Mode	Poor Subnot	Statue	Action
	tect	tost		PC to Pouter	, consumer	Enable	Edit Delete
		1001	0070			Frankla	
	test1	test1	PPIP	PC to Router	-	Enable	Edit Delete
	test2	test2	PPTP	PC to Router	~	Enable	Edit Delete
Collapse							
Device EDevice	Cloud Auth Test > Post		English	0.0			
Kujje MRCycc	cloud_Auti_lest / Edit	DO-F-Immented	Lingiisii V		юаа Арр 🔮 Месмонс	setup @ivetwork.cn	eck <u>m</u> warn 🕒 tog Out
_{ద్ది} Overview	Router	Hostname			×		() Reboot
Online Clients	EG105G-P	MAC Add User					
A Router	Overview Basics *	Security Service Type	ALL				
♥Wireless	VPN Clients	* Username	e Branch				0
Switches	VPN Client List	* Password		0		+ Add	Delete Selected
-≕- -u-Network ∽	Up to 32 entries can	be added.					
	Usernam	e Network Mode	Router to Router	×]	Peer Subnet	Status	Action
		* Peer Subne	t 192.168.10.0/24				
		Statu:	s 💽				
				Cancel			e 4
Collapse							
Ruijie	RCYCC Cloud_Auth_	Test > EG105G-P (Master) (English ~ 🛆 Ruijie Clou	d 📓 Download App	会 Network Setup @	Network Check _ <u>혀</u> Warn
R Overview							
(8) Online Clie	Route	Hostname MAC AC	dd User		× ³		
A Router	Overview	Basics 🗸 Security					
⊕ Wireless	~		Service Type ALL		~		
(a) Switches	1 VPN	I Clients	* Username PC				
Network	VPN C	ient List	* Password	•••			+ Add 🔟 Delete Se
Network	Up to 3	2 entries can be added. N	letwork Mode PC to	Router	~		
		Username			eer S	Subnet St	atus Actio
			Status 🗾				
				Cance	ОК		
« Colla	pse						

🛕 Note

- PC-to-Router: PC-to-router connection is established between a PC and an terminal
- Router-to-Router: Router-to-router VPN typically creates a direct, unshared and secure connection between two terminals.

On the Branch side:

- a Log in to the Reyee EG by the default IP 192.168.110.1.
- b Click Setup->VPN->L2TP and then enable IPsec Auth.

Ruíjie #Rcycc	20211224 > EG105G-P-V2 (Maxim) 0	English Cluijie Cloud i Download App : � Network Setup @ Network Check 🖄 Warn 급 Default Password
یکی Overview کی Online Clients کی Router ج Wireless ۲	Device Info Setup> Wi-Fi Hostname: EG105G-P-V2 SN: F IP: Truccionos AGC: 00200F8150843 Software Ver: ReyeeOS 1.55.1914	Setup> Primary Wi-Fi: 20211224 Security: Yes Security: No
Network V	Net Status (Online Devices / Total) Solution 1 DHCP 1 Internet Router	bps (a) Contract of the second
	Real-Time Flow (Kbps)	Kbps v WAN v
	1	Uplink Flow Downlink Flow
	0.8	
	0.6	
	0.4 -	
≪ Collapse	0.2	
Ruíjie l Rcyco	C Cloud_Auth_Test > EG105G-P [Alastier] • Engl	lish ~
² ₀Overview		
(8) Online Clients	Router Hostname: EG105G-P SN: H1PT EG105G-P MAC: C0:88:E6:35:28:3C	TATC001746 IP: 172.26.5.253
(B) Router	Overview Basics ~ Security ~ Behavior ~ VPN ^ Adva	anced Y Diagnostics Y System Y
- Router	IPCor	
♥ Wireless	L2TP Settings Tunnel List	
Switches	L2TP Settings PPTP	0
-e-Network ~	VPN Clients	Ŭ
	Enable 💽	
	L2TP Type 🔘 Server 💽 Client	
	* Username Branch	
	* Password	٥
	Interface WAN V	
≪Collapse		

c Configure the IPsec Security, make sure the pre-share password, IKE Policy and Transform Set is the same on both side.

Reyee Cookbook

Reyce	GTAC_Reyee > ReyeeEG IM	Aastar) O			English ~	English 🗸 🔗 Ruijie Cloud	English ~ _ Cloud 2월Download App	English ~ _ CRuijie Cloud a 20 Download App : @ Network Setup	English ~ _ Chuijie Cloud	English 🗸 🛆 Ruijie Cloud 📓 Download App 🔶 Network Setup 🔞 Network Check 📺 Warn
2 Overview	* Server Address	172.26.2.253	7	ľ.				1	1	1
Online Clients	* Peer Subnet	192.168.110.0/24								
A Router	IPSec Security	Security								
≪ Wireless ×	* Pre-shared Key	ruijie								
Network	IKE Policy	sha1-3des-dh1	~							
	Transform Set	esp-sha1-aes128	~							
	Negotiation Mode	Main Mode Aggressive Mo	ode							
	Peer ID Type	IP NAME								
	Work Mode	• NAT O Router								
	* PPP Hello Interval	10	second	5	s	s	s	s	s	s
		Save								
«Collapse										

d Check the status of L2TP over IPsec Connection.

Ruíjie Rcycc	GTAC_Reyee	> ReyeeEG (Miastor)	•		English ~	🛆 Ruijie Cloud 🛛 🏭 Dow	nload App - 👲 Network	Setup @Network Ch	neck <u>m</u> i Warn ⊟ Log Out
ిం Overview (() Online Clients	Roun	Hostna 5G-P M	me: ReyeeEG AC: EC:89:70:17:39:35	SN: H1QH6RL04575	4 IP: 172.2	26.5.46			(U) Reboot
Router	Overview	Basics ~ Securi	ty 🌱 🛛 Behavior 🗠 🔽 🗸	PN ~ Advanced ~	Diagnostics ~ System	m ~			
♥Wireless	L2TP Settin	gs Tunnel List							
Switches	🚺 Tun	nel List							0
-a-Network \vee									Delete Selected
		Username	Server/Client	Tunnel Name	Virtual Local IP	Access Server IP	Peer Virtual IP	DNS	Action
		Branch	Client	l2tp	10.0.0.2	172.26.5.253	10.0.0.1	8.8.8.8	Delete
Collapse									

On the Clients side (take Windows 10 as example):

a Enter Control Panel→Network and Internet→Network and Sharing Center



Configuration

- 🗆 🗙

> • 🕆 💆 > Control	Panel > Ne	twork and Internet >	v Ö	Search Control Panel	9
Control Panel Home	22	Network and Sharing Center			
System and Security	and the	View network status and tasks Connect to a network View network computers and devices			
Network and Internet		Internet Options			
Hardware and Sound	- <u>-</u>	Change your homepage Manage browser add-ons Delete browsing history and cookies			
Programs	C.F.	Infrared			
User Accounts	4	Send or receive a file			
Appearance and Personalization					
Clock and Region					
Ease of Access					

b Configure VPN connection

Network and Sharing Center

Internet Options Windows Defender Firewall

🕂 🔶 👻 🛧 💆 > Control 🖡	Panel > All Control Panel Items > Network and	l Sharing Center	~	Ö	Search Control Panel 🔎
Control Panel Home	View your basic network informa				
Change adapter settings	View your active networks				
Change advanced sharing settings	Big4 Public network	Access type: Internet Connections: JUWI-Fi (Bin4)			
Media streaming options					
	Local Area Connection	Access type: No Internet access			
	Public network	Connections: 🦉 Local Area Connection			
	Change your networking settings				
	Set up a new connection or netw Set up a broadband, dial-up, or V	ork PN connection; or set up a router or access point.			
	Troubleshoot problems				
	Diagnose and repair network pro	blems, or get troubleshooting information.			
See also					

× 🔶 🔮 Set Up a Connection or Network Choose a connection option Connect to the Internet Set up a broadband or dial-up connection to the Internet. Set up a new network Set up a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace et up a dial-up or VPN connection to your workplace Next Cancel Х Connect to a Workplace ~ Do you want to use a connection that you already have? No, create a new connection ○ Yes, I'll choose an existing connection Ruijie MY WAN Miniport (PPTP) **Ruijie Demo** WAN Miniport (PPTP) ALMA WAN Miniport (PPTP) Next Cancel

		-		\times	
←	Connect to a Workplace				
1	How do you want to connect?			-	
	→ Use my Internet connection (VPN) Connect using a virtual private network (VPN) connection through the Internet.				
	Dial directly Connect directly to a phone number without going through the Internet.				
	ing				
			Can	cel	
	← 🔣 Connect to a Workplace		-		×
	Type the Internet address to connect to				
	Your network administrator can give you this address.				
	Internet address: 172.26.6.190 The WAN IP of HQ				
	Destination name: VPN Connection				
	Use a smart card				
	Remember my credentials				
	Allow other people to use this connection This option allows anyone with access to this computer to use this cor	nectio	on.		
		Сг	reate	Can	cel

c Change adapter's setting.

Reyee Cookbook



	Options	Security	Networking	Sharin	g	
Type of	f VPN:					
Layer	2 Tunnelin	g Protocol	with IPsec (L2	TP/IPs	ec)	~
Data a				Ac	lvanced settin	gs
Ontion	al epoperation.		t over if no e	nonetia	n	
option	iai enerypu	on conner		neryptio		
Authe	entication					
OUs	se Extensib	le Authent	ication Protoc	ol (EAP)		
						21
					Properties	
						_
	ow these r	rotocolo				
() Al	ow these p	protocols				
) Al	low these p	protocols				
) Al	low these p	protocols				
● AI	ow these p	protocols ted passwo	ord (PAP)			
IIA ()	ow these p] Unencryp] Challenge	ted passwe Handshal	ord (PAP) ke Authenticat	ion Prot	ocol (CHAP)	
지 지 지	ow these p] Unencryp] Challenge] Microsoft	ted passwo Handshak	ord (PAP) ke Authenticat	ion Prot	ocol (CHAP)	
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d Click Advanced Settings to configure the pre-shared password.

Ruijie	MY Prop	erties			×
General	Options	Security	Networking	Sharing	
Type of	VPN:				
Layer 2	Tunneling	Protocol	with IPsec (L2	2TP/IPsec)	\sim
Data end	cryption:			Advanced	settings
Optiona	l encryptio	n (connec	t even if no e	ncryption)	~
Auther	tication				
OUse	Extensible	e Authenti	cation Protoc	ol (EAP)	
					\sim
_				Prope	erties
 Allo 	w these pr	otocols			
	Unencrypt	ed passwo	rd (PAP)		
	Challenge	Handshak	e Authenticat	tion Protocol (CH	IAP)
	Microsoft C	HAP Vers	ion 2 (MS-CH	IAP v2)	
	Automa passwo	atically use ord (and de	e my Windows omain, if any)	s logon name an	d
				OK	Cancel

⊙ Use p	reshared key	for authentic	ation		
Key:	ruijie 123				
O Use o	ertificate for a	authentication	ı		
Ve Ve	erify the Name	e and Usage a	attributes of th	e server's	certificate
					Cancel
				ж	Cancel
V Une	ncrypted pass	word (PAP)		ж	Cancel
⊻ Une	ncrypted pass	word (PAP)	cation Protocol	(CHAP)	Cancel
⊻ Une ∑ Chal ∑ Micro	ncrypted pass lenge Handsh osoft CHAP Ve	word (PAP) wake Authentic	cation Protocol CHAP v2)	(CHAP)	Cancel

e Using the account of PC-to-Router to connect PC.

Ruíjie Rcycc	Cloud_Auth_Test > EG105G-P (Mass						
or Overview	Hostname			3			
Online Clients	EG105G-P MAC	Add User		×			() Reboot
Router	Overview Basics Security	Service Type	ALL	~			
ଙ୍କ Wireless 🗸 🗸	VPN Clients	* Username	PC				0
Switches 🖾	VPN Client List	* Password		0		+ Add	Delete Selected
"=="Network ∀	Up to 32 entries can be added.	Network Mode	PC to Douton				
	Username		PC to Router	'ee	r Subnet	Status	Action
		Status		_			
			Cancel	ок			
							(
«Collapse							4



4.1.8.5 Open VPN

Open VPN usually is used for the Site to Site scenario and Client to Site scenario. OpenVPN is an application-layer VPN implementation based on the OpenSSL library. Compared with traditional VPN, its advantages is simple to use. The literal translation of VPN is a virtual private channel, which is a tunnel that provides secure data transmission between enterprises or between companies. Open VPN is a full-featured SSL VPN that uses Layer 2 or Layer 3 secure network technology using industrial Standard SSL/TLS protocol. SSL (Secure Sockets Layer), and its successor Transport Layer Security (TransportLayer Security, TLS) is a security protocol that provides security and data integrity for network communications. OpenVPN supports flexible client authorization methods, supports certificates, usernames and passwords, allowing users to A virtual interface that connects to the VPN, OpenVPN is not a web proxy-based application, nor is it a browser-based access.

(1) On the HQ side:

1. Login in to EG -> VPN -> OpenVPN.

Reyee Cookbook

Rujje	ReyeeNetwork_01 > Ruijie (Master) 0		English 🗸 🛆 Ruijie Clou	ud 🗱 Download App	န္ဒ Network Setup 🛛 🍘	و Network Check	☆Warn 日 Log Out
# Overview	Hostname: Ruijie	SN: EG34	IP-1 2				
Online Clients	• EG105G-P-V2 MAC: 00:D0:F8:15:08:43	1					(U) Reboot
A Router	Overview Basics ~ Security ~ Behavior ~	VPN ^ Advanced ~ Dia	ignostics ~ System ~				
	Overview	IPSec					
Switches	Mamory Lisage	РРТР		Status: Opling			
$\frac{1}{2}$ Network	44%	OpenVPN	0	Duration: 9 days 19 h Systime: 2022-04-18	iours 56 minutes 19 se 11:47:47	econds	
		VPN Clients					
	Device Details						
	Model: EG105G-P-V2	Hostname:	Ruijie &		SN: EG349425	70019	
	MAC: 00:D0:F8:15:08:43 Hardware Ver: 1.00	Software Ver:	ReyeeOS 1.56.1325		Kole: Master AC	.0	
	Interface Details						
	Connected Disconnected						e
«Collapse							41

2. Enable **Open VPN** and select/ input VPN information to below fields.

- + VPN type (Server/Client) based on your needed
- + Server Mode 3 authentications method supported: Account, Certificate, Account & Certificate
- Account mode: you have to create account at VPN => VPN Clients
- Certificate: VPN connection will use certificate to auth.
- Account & Certificate: use both methods
- + Protocol: TCP or UDP
- + Server Address: IP/domain (your WAN ip address) or your domain name.
- + Port ID: 1194 by default.
- + IP Range: the IP will assign to client device.
- + Deliver Route: based on your network, you can add more than one route.

Advanced configuration:

- TLS authentication: to secure your VPN connection with TLS key
- Allow Data Compression: Yes by default.
- Route All Traffic over VPN: No by default.
- Ciper: Allow you to chose data encryption algorithms, by default will be AES-128-CBC
- Deliver DNS: will assign DNS address to client device.
- Auth: SHA1 by default.

OpenVPN Type 🧿	Server Client		
Server Mode	Account \lor		
Protocol	TCP ~		
* Server Address	vpn.rjnoc.com		
* Port ID	1194	1-65535	
* IP Range	10.80.12.0/24	0	
		255 255 255 2	

TLS Authentication	•	
Allow Data Compression	Yes ~	0
Route All Traffic over VPN	No ~	0
Cipher	AES-128-CBC V	0
Deliver DNS	8.8.8.8	❷ +
Auth	SHA1	
Client Config	Export	
Server Log	Export	
	Save	

3. Save configuration by click to Save button and Export Client Config/ Server log

Rujje	ReyeeNetwork_01 > Ruijie [N	Inster 0 Oper	ation succeeded.	Cloud	訳Download App	A Network Setup	@ Network Check	<u>済</u> Warn	🕞 Log Out
중Overview		Collapse							
Online Clients	TLS Authentication	0							
Router	Allow Data Compression	Yes 🗸	0						
	Route All Traffic over VPN	No	ø						
Switches									
$\frac{1}{2}$ Network	Cipher	AES-128-CBC ~	Ø						
	Deliver DNS	8.8.8.8	• +						
	Auth	SHA1							
	Client Config	Export							
	Server Log	Export							
		Save							e
≪Collapse									(1)

On the Clients side (take Windows 10 as example):

- 1. Download and install OpenVPN application to your PC
 - You can download OpenVPN client in this link (select suitable version for your PC):
https://openvpn.net/community-downloads/

2. Import Client config to OpenVPN client after installed on your PC.

- Extract Client that you downloaded before then you will get etc folder with client.ovpn file

- Right click to OpenVPN icon on try system and chose Import => Import file... => browse to the location client.ovpn extracted.

Connect		
Disconnect		
Reconnect		
Show Status		
View Log		
Edit Config		
Clear Saved Password	ds	
Import	>	Import file
Settings		Import from Access Server
Fyit		Import from URL

vew rolu	ы 			
* ^	Name	Date modified	Туре	Size
*	client.ovpn	3/10/2022 11:20 PM	OpenVPN Config	2 KB
ę	OpenVPN GUI for W	índows	×	

File Imported successfully, then you can connect to VPN

3. Click to OpenVPN icon on try system then select connect, if you using Account authentication method then you have to input your vpn account at this step.

🔁 OpenVPN Connec	tion (client)			_		×
Current State: Connec	ting					
Thu Mar 10 23:38:20 Thu Mar 10 23:38:21 Thu Mar 10 23:38:21	 ♀ client ↓ semame: u11 Password: ••• ✓ Save password ○K Connecting automatically 	X Cancel	ed. Compression -128-CBC' but m ISSL)] [LZO] [LZ er) 64bit 1, LZO 2.10 F_INET]127.0.0 e, waiting INET]127.0.0.1:	has beer issing in [4] [PKCS .1:25340 25340	n used in -data-cipi 11] [AEA	the p hers D] bi
<						>
Disconnect Connection succes	Reconnect	resource.	OpenVPN	GUI 11.2	6.0.0/2.5 Hide	5.5
💬 OpenVPN Connec	tion (client)			—		×
Current State: Connect Thu Mar 10 23:38:28 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30	ted 2022 interactive service ms 2022 open_tun 2022 tap-windows6 device 2022 TAP-Windows Driver 2022 Set TAP-Windows TU 2022 Notified TAP-Window 2022 Successful ARP Flush 2022 MANAGEMENT: >ST 2022 IPv4 MTU set to 1500 2022 TEST ROUTES: 1/1 2022 MANAGEMENT: >ST 2022 C: WINDOWS) system	g_channel=808 [OpenVPN TAP-Windo Version 9.24 JN subnet mode netwo s driver to set a DHCP o on interface [45] {C68 ATE:1646930308,ASS) on interface 45 using succeeded len=1 ret=1 ATE:1646930310,ADI m32\route.exe ADD 19	ows6] opened rk/local/netmask IP/netmask of 1 300A22-9C51-40 SIGN_IP.,10.80.1 service I a=0 u/d=up 0_ROUTES 02,168.100.0 MA	c = 10.80. 0.80.12.2 78-844C-4 2.2 SK 255.2	12.0/10.1 /255.255 40D24535 55.255.0	< .
Thu Mar 10 23:38:30 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30	2022 Route addition via ser 2022 Initialization Sequence 2022 MANAGEMENT: >ST	vice succeeded e Completed ATE:1646930310,CON	NNECTED.SUCC	ESS,10.8	30.12.2, 1 ; >	2
Thu Mar 10 23:38:30 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30 Thu Mar 10 23:38:30	2022 Route addition via ser 2022 Initialization Sequence 2022 MANAGEMENT: >ST	vice succeeded e Completed ATE:1646930310,COM	NNECTED,SUCC	ESS,10.8	30.12.2,1 >	2 >
Assigned IP: 10.80.12 Bytes in: 6930 (6.8 KiE	2022 Route addition via ser 2022 Initialization Sequence 2022 MANAGEMENT: >ST .2 .2 3) out: 4448 (4.3 KiB)	vice succeeded e Completed ATE:1646930310,COM	NNECTED,SUCC	ESS, 10.8 GUI 11.2	80.12.2,1 > 6.0.0/2.5	2 ~

4.1.9. Port Mapping

Port Mapping is used to map the internal server IP and the port to external IP, so that the outside staffs can access internal server. The difference between port mapping and DMZ is that port mapping only map one/several ports, but DMZ will map all ports.

Application Scenario

Typical Port Mapping Scenario



Typical DMZ scenario



Procedure

Click Router->Advanced->Port Mapping->Add to add the port mapping or DMZ policy.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Mastur) 0			English	- CRuijie Cloud 20 Download App	Network Setup	Network Check	凿Warn ┣Log Out
ි Overview ම Online Clients ම Router	►EG105G-P Overview Basics × Security × Behavior × VPN ×	Advanced ^ Diagnostic	IP:	MAC: 15				(1) Reboot
♥Wireless	Port Mapping NAT-DMZ	Routing Flow Control						
Switches	Port Mapping	PPPoE Server						0
	Port Mapping List	Session Limit					+ Add	Delete Selected
	Up to 50 entries can be added.	Port Mapping Dynamic DNS						
	Name Protocol	UPnP Settings	P Address	External Port	Internal IP Address	Internal Port		Action
		Local DNS Other Settings		No Data				
	< 1 > 10/page ~							Total 0
#Pollance								e

Reyee Cookbook

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Switches	Port Mapping	Preferred Server HTT	p v				0
Network ~	Port Mapping List	Protocol TCP					+ Add Delete Selected
	Up to 50 entries can be added.	External IP Address 172	.26.6.124				
	Name Protocol	* External Port/Range 45			Internal IP Address	Internal Port	Action
		* Internal IP Address 192	.168.1.1 0				
	10/page -	* Internal Port/Range 80					Total 0
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Collipse Collipse Collipse Collipse Colline	Ruijie-Hotal > Ruijie :::::::::::::::::::::::::::::::::::	HL 34 Edit Rule * Name DMZ * Dest IP Address 192.168.1.1 Outbound Interface WAN Status C	28 MAC EC	English ~ (×	∩ Ruijie Cloud I 20 Download App	Network Setup	A
Calipse Calip	Ruijie-Hotel > Ruijie (Missies) Hostname: Ruijie SNE Verview: Basics × Security × Behavior × V/N × Port Mapping NAT-DMZ NAT-DMZ NAT-DMZ Rule List There are 2 cutbound interfaces. Up to 2 rules can be added. NATE: Name DMZ	Ht 34 Edit Rule * Name DM2 * Dest IP Address 192.168.1.1 Outbound Interface WAN Status C	24 MAC: ES	English - A	≏Rujie Cloud MDownload App	♦ Network Setup	Reboot O Reboot Add Delete Selected Action Edt: Delete
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🛕 Note

When the DMZ and Port Mapping enable at the same time, the Port Mapping will work priority.

4.1.10. Dynamic DNS

DDNS (Dynamic Domain Name Server) is to map the user's dynamic IP address to a fixed domain name resolution service. Every time the user connects to the network, the client program will transfer the dynamic IP address of the host through information transmission. It is transmitted to the server program located on the host of the service provider, and the server program is responsible for providing DNS services and implementing dynamic domain name resolution.

Application Scenario

Access Server with Domain Scenario



Clients: 192.168.10.0/24

Server: 192.168.1.0/24

Procedure

Click **Router->Advanced->Dynamic DNS**, there are three DDNS servers you can choose to connect. Peanut Shell DDNS, NO-IP DNS and DynDNS.

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용 Overview 응 Online Clients	Form Hostname: Ruijie SN: F • EG105G-P Overview Basics ~ Security ~ Behavior ~ VPN ~ Advanced ~	IP: 1 MAC Diagnostics ∽ System ~			(U) Reboot
⇔ Wireless v	Peanut Shell NAT Dynamic DNS No-IP DNS Dynt Flow Contro				
Hetwork V	No-IP DNS PProc. Serve Authenticat Service Interface WAN Session Lim	on t			
	* Username Fort Mappin * Password UPnP Settin	g IS J ⁶			
	Domain Content Settin	95			
	Log in Delete				
	Domain -				
10 Hours					6

If using Peanut Shell DDNS, It is recommended to use WeChat or Peanut Shell to scan the QR code to register account.

Ruijie	Ruijie-Hotel > Ruijie Millenari 🔿	English ~	CRuijie Cloud	20 Download App	A Network Setup	Network Check	盐Warn ┣Log Out
옹Overview							
Online Clients	Hostname: Ruijie SN: H IP: " MAC: EC EG105G-P						(U) Reboot
Router	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×						
♥Wireless	Peanut Shell NAT Dynamic DNS No-IP DNS DynDNS						
圖 Switches	Peanut Shell NAT It is recommended to use WeChat or Peanut Shell to scan the OR code.						
Network ~	Enable 💭						
	Save						
	Service Status -						
	Scan to Login						
							(e)
«Collapse							

Click **Dynamic DNS** to fill in the username and password, then click Log In to connect the DDNS server. Finally you can use the Domain to access the intranet server or HQ device.

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Dynamic DNS It is recommend	ed to use Peanut Shell for NAT, inclu	ding TCP, UDP, HTTP and HTTPS mapping.	
Dynamic DNS			
* Preferred Interface	WAN	~ @	
* Username	15396042844		
* Password			
	Log In Delete		
Link Status	Connection success.		
Domain	emptynamea.vicp.net		6

4.1.11. Authentication

Application Scenario

Cloud Auth Scenario



Local Account Auth Scenario



Procedure

4.1.11.1 Cloud Auth

Reyee EG devices support Cloud portal authentication, including one-click, voucher, account, SMS (integrated with Twilio) authentications.

1. Configuring the Cloud authentication on cloud, click the SN of the EG to enter the the EG detail page

Add	Web CLI	eWeb More 🗸	0 Selected						A	SN, Al	ias, Description	•+ • ·
	Status	SN	Alias 👙	MGMT IP	MAC	Egress IP	Network	Firmware Version	Offline Time	Model	Description	Actio
	Online	H1QH671 1 3754	Ruijie	172.26.5.46	ecb9.7017.3935	120.35.11.195	Ruijie-Hotel	ReyeeOS 1.56.1325	-	EG105G-P	Empty.	前

2. Click Config-> Cloud Portal Auth,

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	MONITORING CONFIGURATION MAINTENANCE	<mark>₽</mark> 000
A abcdefg@111.com ~	Cloud Portal Auth ×	Take over Network Unbind Device
DASHBOARD	Auth @ Alter you enable Cloud Portal Auth, it will be synced to the Reyee EG automatically.	
응 TOPOLOGY	Save Close	0 M
iñ ALARM	Ng	
REPORT	Deardon Model EG108G-P	Search
Network	Actual Master Device HTQ46R1045754 MGMT1P 172.256.36	
Voucher	Network Master Device: H10H6RL045754 Firmware Version: ReyeeOS 1.56.1325	Action
E DEVICE	Overview Config	Re-authorize Delete
AP		5 1 in total
AC Switch Gateway Home Router	I Veb CLI eVeb TELNET SSH Tunnel Rebox Cloud Portal Auth	tefresh: C SN, Alias, Description
		Model Description Action
Q CAMERA		G105G-P Empty III
Cameras		10 = 1 in total
NVR	WAN LAN Disconnected Disabled PPPoE Static IP DHCP Copper SFP	
R CLIENT		
	Dynamic DNS @	

3. Fill the Auth IP/Range who need to do authentication then can access internet.

Ruíjie	MONITORING CONFIGURATION MAINTENANCE	•• • • • •
(A) abcdefg@111.com ~	AU Cloud Portal Auth ×	Take over Network Unbind Device
DASHBOARD	Auth 🛛 🔍 After you enable Cloud Portal Auth, it will be synced to the Reyee EG automatically.	
충 TOPOLOGY	I Portal Escape 🛛 🔍	0 2
iñ ALARM	No Arith IP/Range 102 168 120 2.102 168 120 254	
REPORT	1 unit it for the 100-160-6004	Search
Network	Seamless Online 🖉 🔍 1 Day 🗸	
Voucher	User Offine Detection	Action
E DEVICE	Please select a portal or writi a new portal	Ne-aumonze Delete
AP		5 🚬 1 in total 🛒
AC		Q
Switch		tefresh: 🔍 🤤 🖾 🖽 ≠ 20
Gateway		SN, Alias, Description Q
		Model Description Action
O CAMERA	1	G105G-P Empty
CAMERA	$\langle \rangle$	10
Q CLIENT		
IN GUENT		

Portal Escape: When the cloud server was down, if you enable this function, the clients can access internet directly without authentication.

Seamless Online: User only need to pass the authentication once. If they want to go online again, authentication is not

required. After users go online, they do not need to log in again in the specified period. You can choose 1 Day, 1 week,

1 Month or Always.

User Offline Detection: User won't access internet after the valid period

4. Click add a new portal to add a portal page.

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Ruíjie	MONITORING CONFIGURATION MAINTENANCE	₽ ¤®®
abcdetg@111.com ~	Captive Portal) Add	x
DASHBOARD	Al. Name test	Take over Network
TOPOLOGY	Description	tefresh: 🍊 🗘 🛤 🕶 50
ALARM	Login Options 🗹 One-click Login 🖉 Voucher 🦉 Account 🗌 SMS 📄 Registration 🔤 🗍 Facebook Account	SN. Alias. Description Q
REPORT	The twillio account is not configured. Please click here to configure.	Madal Description Action
		G105G-P Emoty III
	Show Balance Page 🙆 📧	so _ 1 in total
DEVICE	Post-login URL 🕢 https://www.ruijienetworks.com	
	Portal Page 🛛	
	Basic Advanced Mobile Desktop	⑦ Reset Style
	Logo Picture @ Default Logo Upload	
	Ruge 🖒	
	Background O Image O Solid Color	
CAMERA	Background Image	
	Default Image Upload	
	Lessuese	
CLIENT	Languages English X +	
	Welcome Message • Text Image • toyn	
	Text 60 characters remaining	

5. Click the portal page to apply it, then click Save.

Ruíjie	MONITORING CONFIGURATION MAINTENANCE	🔮 O O O O
A abcdefg@111.com ~		Take over Network
DASHBOARD	Auth 🛛 Atter you enable Cloud Portal Auth, it will be synced to the Reyee EG automatically	
옮 TOPOLOGY	Portal Escape Ø	tefresh: 💽 😌 🖄 🖽 + 😫
in ALARM	Auth IP/Range 192.168.120.2-192.168.120.254 +	SN, Alias, Description Q
REPORT		Model Description Action
Network	Seamless Online 🛛 🔍 1 Day 🗸	G105G-P Empty
Voucher	User Offine Delection	10 a 1 in total
E DEVICE	Please select a portal or add a new portal.	
AP		¢.
AC		6
Switch		
Galeway		
	O Waxter Lagn	
© CAMEDA	Access Code	
Camera		
CLIENT	O Ow dot Lipin	
WY GELAT		1 1

6. If you use voucher or account authentication, click **Configuration->Voucher/Account** to add voucher or account used for clients. Click **Manage Package** to add package

Reyee Cookbook

		🔓 C @ & O*
A abcdefg@111.com V	Ruijie-Hotel V Search Network Q (GMT+6.00)Asi	a/Shanghal Manage Project Take over Network Unbind Device
PROJECT		
	Note: Reyee AP requires authentication on Reyee gateway. Please enable Cloud Auth on EG for Reyee devices. How to enable Cloud Auth on Reyee EG?	
Basic	Voucher	⊙ @ 태→ 정
Layout		
Radio	Print Voucher Manage Package Or Total Vouchers: 0 Activated Vouchers: 0 Depleted Vouchers 0 : 0	Voucher Code, Alias, Packi Q Advanced Search V
Wi-Fi Optimization	Voucher Code Alias Package Name Price Period Created at Activated at Expired at Devices Bind MAC	Download Speed Upload Speed Status
Roaming	No Data	
Bluetooth	First Previous Page 0 of 0 Next Last	10 - 0 in total
Load Balancing		<u>P</u>
O AUTHENTICATION		6,1
Captive Portal		
PPSK		
Voucher		
Account		
Easy Sharing		
Batch CLI Config		
Customize CLI Set		
AP VLAN		

7. Click Add Package, fill the Price, Concurrent Devices, Bind MAC, Period, Download Speed, Upload Speed.

0 O O	🗳 a 🕯					MAINTENANCE .	CONFIGURATION	MONITORING	Ruijie 📥
				×		Add Package			Present is Bacco
Jnbind Device	Manage Project Take over Network	Manage Project	T+8:00)Asia/Shanghai				Search Network Q	Ruijie-Hotel \sim	A abcdefg@111.com ~
						Package Name			PROJECT
						Description	requires authentication on	Note: Reyee AP	
25 + 18	0					Price	anage Package	Voucher Ma	Basic
	Packade Name					Concurrent Devices		Add Package	Layout
					¥]	Concurrent Devices			Radio
Action	Upload Speed	1	Download Speed			Bind MAC	Name Des	Package	Wi-Fi Optimization
					Minutes ~	Period	_		Roaming
📃 0 in total 🔛	10 -								Bluetooth
P					bps 🗸	Download Speed			Load Balancing
6.0					bps 🗸	Upload Speed			O AUTHENTICATION
					OK				Captive Portal
									PPSK
									Voucher
									Account
									Easy Sharing
									ADVANCED
									Batch CLI Config
									Customize CLI Set
									AP VLAN
0	10				bps v ps v CK Cancel	Download Speed Upload Speed			Bluetooth Load Balancing O AUTHENTICATION Captive Portal PPSK Veucher Account Easy Sharing O ADVANCED Batch CLI Config Customize CLI Set AP VLAN

8. Click Print Voucher to add voucher. Fill the Quantity and choose the Package you add just now. Then click Print.

Reyee Cookbook

Ruíjie 📥	MONITORING CONFIGURATION MAINTENANCE •	® 8	
PROJECT VIRELESS Basic	Note: Reyee AP fequires aumentication on Reyee galeway. Please enable Cloud Aum on EG for Reyee devices. How to enable Cloud Aum on Reyee EG2 Voucher > Print Voucher Print Configuration Profile Information on Voucher You can select at most 4 parameters for the voucher.		
Layout Radio Wi-Fi Optimization Roaming Bluetooth	Alias 9ackage Name Bind MAC 1 1 test Yes Concurrent Devices Period 3 30 Minutes		
Load Balancing O AUTHENTICATION Captive Portal PPSK	** Package ¿ Manage Package test ✓ Logo © Clear Select the logo		
Account Easy Sharing ADVANCED Batch CLI Config	Text O(40 Print Method		
Customize CLI Set AP VLAN	Print in 2 Columns (A4) V		
Print Voucher Manage	e Package More + Total Vouchers: 1 • Activated Vouchers: 0 • Depleted Vouchers • 0	Search 🗸	
Voucher Code	Alias Package Name Price Period Created at Activated at Expired at Devices Bind MAC Download Speed Upload Speed Stati - test - 30 Minutes 2022-04-14 21:50:31 - - 0/3 Yes 1.00 Mbps NotActivated at NotActivated at NotActivated at - 0/3 Yes 1.00 Mbps NotActivated at - <td>us tivated</td> <td>4</td>	us tivated	4
	First Previous Page 1 of 1 Next Last 10 -	1 in total	

9. Click **One-Click** to Login to do authentication on PC

	auth	× +	-	0	×
\leftarrow	\rightarrow C	🔺 不安全 portal.ruijienetworks.com/download/static/advertisement/maccauth/src/index.html?RES=.//expand/res/mftzux6hv9xgic6 A 🏠 🏠	Ē	۲	
+	→ C	▲ 天全 portal.ruijienetworks.com/download/static/advertisement/maccauth/src/index.html?RES=J./expand/res/mftzux6hv9xgic6 A			

4.1.11.2 Local Account Auth

Reyee EG devices provide local account authentication, the portal page and account are all created locally.

1. Click Router->Advanced->Local Account Auth, enable local account auth, fill the Auth IP/IP Range, then click Save.

Reyee Cookbook

Configuration

Rujje	Ruijie-Hotel > Ruijie (Minsian) 🛛	English ∽ △R	uijie Cloud 📓Download App	\land Network Setup	@Network Check	逝Warn ┣Log Out
& Overview ⊗ Online Clients Router	Item Hostname: Rulijie SN: • EG105G-P Overview Basics Security Behavior VPN Advanced Diagnostic	IP: 172.26.5.46 MAC: EC.89.70:17.39.35 5 ∼ System ∽				(U) Reboot
중Wireless ∨ @Switches	Cloud Auth Local Account Auth Authorized Auth Flow Control	Online Clients				
-the Network	1. Enable account authentication and create an account. 2. A user logs in with the account created in step 1 and will be sension Limit Make sure that the device can access the Internet. Otherw If the IP address of the EAP device is in the authentication Port Mapping	19 up on the terminal. list to add the EAP MAC address to the MAC address whitelist.				0
	Local Account Auth Dynamic DNS UPnP Settings Accounts 1 Ucal DNS Other Settings					
	* Auth IP/IP Range 192.168.120.2-192.168.120. Add					
	Account Settings Up to 200 accounts can be added.		Search by Username	Search	+ Add	Delete Selected
	Username	Password N	/AC		Action	e
«Collapse	test1	test			Edit Delete	-

Auth IP/IP Range: The IP of the client who needs to do authentication. The IP can't overlap with other auth IP.

2. Add the account used by clients, up to 200 accounts can be added.

^g ₈ Overview	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostic	s ~ System ~					
Online Clients Router	Cloud Auth Local Account Auth Authorized Auth QR Add Account		×				
⇔Wireless 👻	Local Account Auth Local Account Auth Usernan Usernan	test2					
Switches	2. A user togs in with the account created in tate 1 and will be also Make sure that the device can access the internet. Otherwise, I Make 10 address of the 280 during in the accession to the top of the set	rd test2	Res.			(0
*Network *	In the le address of the Ear device is in the authentication in the	Cancel	ок				
	Accounts 1						
	* Auth IP/IP Range 192.168.120.2-192.168.120. Add						
	Save						
	Account Settings				+ Add	Delete Select	ted
	Up to 200 accounts can be added.						
	Username	Password	MAC		Action		
	test1	test			Edit Delete		
	C I X 10/page ~					Tot	ital 1
« Collapse							

🛕 Note

The account can be used by multi clients.

3. Do authentication on PC, normally the portal page will pop-up automatically. If it can't pop-up auto, please try to key in 1.1.1.1 to redirect to portal page (The page will auto showing with English or Chinese based on your browser language setting).

\rightarrow G		N N	ot secu	ire	http://	192.16	8.120	0.1/gı	uest_	aut	th/pv	wdpa	age	e_en.ł	html?	?gw_i	id=e	ecb97	701739	935&	lgw_s	sn=H1	QH6	RL045	7548.9	gw_ad	dress	=192.	168	Q	Ê	☆		
																	8	Ś																
											Ple	ease	e e	ente	er yo	our	use	erna	ame a	and	pas	sswc	ord~											
Ple	ease	e er	nter u	iser	name	Э																												
Ple	ease	e er	nter p	bass	word																													
Chang	ge F	ass	sword	ł																														
																	Lo	ogin	1															
(Re	eset	ť)

4. Fill the **username** and **password** got from manager, or if you want to change the password, you can click **Change Password**.

\leftrightarrow \rightarrow G	▲ Not secure http://192.168.120.1/guest_auth/pwdmodify_en.html?dis=0	07	Q	e		. :	
							-
test1							
••••							
•••••							
•••••							
						~	
	Submit						
	Reset						
	Back						



5. Fill the new username and password to login. The page will appear automatically after you login in, then you can access the internet.

	Please enter your username and password~
test1 Change Password	
	Login
	Login Reset
	Login Reset
	Login Reset

6. Check the online information on EG

Reyee Cookbook

Rujje	Ruijie-Hotel > Ruijie (Menser) O	English 🗸 🛆 Ruijie Cloud	顓Download App 🔮 Network Setu	p @Network Check <u>做</u> Warn 日Lo	og Out
A Overview					
Online Clients	Hostname: Kujite SN: H1 IP: 1 EG105G-P	MAC: EC 35		O Reboo	ot
Router	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×				
♥Wireless	Cloud Auth Local Account Auth Authorized Auth QR Code Auth Whitelist Online Clients				
Switches	7 Online Clients				
-a- -a-Network	Auth Settings				
	Idle Client Timeout 15 Min (Range: 5-65535)				
	Save				
	Online Clients	Search by IP Address	✓ Enter Q	C Refresh Delete Selected	t
	Username IP MAC Up on	Duration(Sec)	Auth Type	Status Action	
	test1 192.168.120.8 2ff 2022-4-15 10	:38:10 0	Password	Online Delete	
	< 1 > 10/page ~			Total	1
					(? 41
≪Collapse					

4.1.11.3 Authorized Auth

Reyee EG supports **Authorized Auth.** Once this function is enabled the authenticated user can authorize guests by scanning his/her QR code.

1. Click Router->Advanced->Authentication->Authorized Auth, then enable it.

Ruíjie SRcycc	Ruijie-Hotel > Ruijie (Museer) • English ~ @Ruijie Cloud 📓 Download App 🔮 Network Setup @Network Check 🖄 Warn 🕞 Lo	g Out
음Overview 응Online Clients	Cloud Auth Local Account Auth Authorized Auth QR Code Auth Whitelist Online Clients	
■Router ♥Wireless	Authorized Auth An authorized user can authorize guests by scanning his QR code. Make sure that the device can access the Internet. Otherwise, the Portal page may not pop up on the terminal. If the IP address of the EAP device is in the authentication IP range, please choose Whitelist to add the EAP MAC address to the MAC address whitelist.	
E Switches	Authorized Auth	
-an -an Metwork	Popup Message Welcome to Reyee	
	* Auth IP/IP Range 192.168.110.2-192.168.110. Add	
	Limit Online Duration	
	* Duration Limit 60 minute	
	* Authorization IP/IP 192.168.12.2-192.168.12.254 Range	
«Collapse	Save	e

Auth IP/IP Range: The IP of the guest.

Limit Online Duration: The online duration of guest.

Authorization IP/IP: The IP of the authenticated user.

2. The guest will pop-up the following authentication portal page automatically after he/she connected to the internet.



3. After the Authorization clients scan the QR code, the guest authorized succeed, then can access internet.

Tips Authorization succeeded. OK	Tips Authorization succeeded. OK		2	
Authorization succeeded.	Authorization succeeded.		Tips	
OK	ОК	Authorization succeeded.		
			ОК	

4.1.11.4 QR Code Auth

Reyee EG supports QR Code Auth. Once this function is enabled, the user can access the Internet by scanning the specified QR code.

1. Click Router->Advanced->Authentication->QR Code Auth, then enable it.

Reyee Cookbook

Ruijie #Rcycc	Ruijie-Hotel > Ruijie (M	inster) O						English ~	CRuijie Cloud	副Download App	@ Network Setup	Network Check	<u>`M</u> Warn ☐ Log Out
20 Overview	Cloud Auth Local A	Account Auth	uthorized Auth	R Code Auth	Whitelist	Online Clients							
Online Clients Router Wireless	QR Code Auth A user can access Make sure that t If the IP address	the Internet by scan he device can access	ing the specified QR cod the Internet. Otherwise,	e. , the Portal pa	ge may not pop	up on the terminal.	Caddrers to the MAC	address white	K++				0
Switches	QR Code Auth		in the address cation in	range, prease									
-the Network	* Authorization IP/IP	192.168.110.2-19	2.168.110. Add										
	Limit Online Duration												
	* Duration Limit	60	minute										
	QR Code Generator	* Dynamic QR Code	defqrcode		الا	State In the second							
		Popup Message	Welcome to Reyee		12Mil								
		Please print and	paste the QR code for g	juests to scan.		17.44 17.							6
«Collapse		Save											1

Authorization IP/IP Range: The IP of guest.

Limit Online Duration: The online duration of guest.

QR Code Generator: Please print and paste the QR code for guests to scan.

2. The guest scan the QR Code then can access internet.



4.1.11.5 Whitelist

A user configured with whitelisted IP or MAC address can access the Internet without authentication.

1. Click **Router->Advanced->Authentication->Whitelist**, add User Whitelist, IP Whitelist, URL Whitelist, MAC Whitelist, MAC Blacklist.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Minian) 👁	English 🗸 🛆 R	uijie Cloud 📓Download App 👌 Network Setup @ Network Check 滋 Warn 🕒 Log Out
ි Overview ම Online Clients	EG105G-P Overview Badics × Security × Behavior × VPN × Advanced ×	IP: 1 MAC	(O Reboot
	Cloud Auth Local Account Auth Authorized Auth QR Code Auth	Whitelist Online Clients	
a Switches	 A user configured with whitelisted IP or MAC address can access the li 	ternet without authentication.	
*Network ~	User Whitelist		+ Add B Delete Selected
	Up to 50 entries can be added.		
		IP/IP Range	Action
		No Data	
	< 1 > 10/page ~		Total 0
	IP Whitelist		+ Add 🗉 Delete Selected
	Up to 50 entries can be added.		
		IP/IP Range	Action
		No Data	6
« Collapse	< 1 > 10/page ~		Total 0
Ruíjie Reyce			uijie Cloud 調Download App 《 Network Setup 《 Network Check
Source Recyce	Ruijie-Hotel > Ruijie (Marke) •	English - OR Add - X	ujje Cloud 📓 Download App 🔌 Network Setup 🍭 Network Check 🚊 Warn 🕞 Log Out
Ruffe ERcycc 2:0verview Online Clients BRouter Yureless	Ruijie-Hotel > Ruijie (Market) ● • EG105G-P Overview Basics × Security × Behavior × VPN × Advanced × Cloud Auth Local Account Auth	English ~ OR Add × * 19/IP Range 192.168.110.8	ujje Cloud 📓 Download App 🔌 Network Setup 🍭 Network Check 💥 Warn 🕞 Log Out
Course Recyce Courses Contine Clients Router Wireless Switches	Ruijle-Hotel > Ruijle (Kateline) Hostname: Ruijle SN: H1 5 Cverview Basics × Security × Behavior × VPN × Advanced – Cloud Auth Local Account Auth Authorized Auth QR Code Auth	English ~ OR Add × +19/IP Range 192.168.110.8	uijie Cloud MDownload App @ Network Setup @ Network Check <u>H</u> Warn G Log Cut
Ruffe IRcycc Online Clients Router Witeless Switches ENswitches	Ruijie-Hotel > Ruijie (Kindele O Image: Ballie Street Image: Ballie St	English ~ OR Add × + IP/IP Range 192.168.110.8 Cancel OK	ujje Cloud MDownload App @ Network Setup @ Network CheckH WarnLog Cut (© Reboot + Add @ Delete Selected
Ruffe IRcycc Overview Sonline Clients BRouter Solutions Wireless Solutions Switches Solutions	Ruijle-Hotel > Ruijle (Ruijle) Iteratione: Ruijle SN: H1 S • EG105G-P Hostname: Ruijle SN: H1 S Overview Basics < Security	English ~ OR Add × *IP/IP Range 192.168.110.8 Cancel OK	ujje Cloud
Ruffe Rcycc Orervlew Online Clients Router Vireless Switches X Network X	Ruijle-Hotel > Ruijle (1996/1995 0)	English ~ OR Add × * IP/IP Range 192.168.110.8 Cancel OK	ujie Cloud
Ruffe IRcycc Overview Online Clients Router Vitreless Switches Switches Switches Switches	Ruijle-Hotel > Ruijle (Ruijle) 0 Image: Ruijle Sh: H1	English ~ OR Add × + 19/1P Range 192.168.110.8 Cancel OK IP/IP Range No Data	ujie Cloud MDownload App A Network Setup Network Check M Warn Log Cut (C Reboot + Add Delete Selected Action
Curriev Sonine Clents Router ♥Wireless × Switches ₹Network ×	Ruijle-Hotel > Ruijle (Statistics) 0 Hotmanic Ruijle Sh. H 5 Cerview Basics × Security × Behavior × VPN × Advanced = Cloud Auth Local Account Auth Authoritzed Auth QR Code Auth A user configured with whitelisted IP or MAC address can access the User Whitelist Up to 50 entries can be added.	English ~ OR Add × + 1P/IP Range 192.168.110.8 Cancel OK IP/IP Range No Data	ujie Cloud MDownload App @ Network Setup @ Network CheckH Warnbog Out @ Reboot
Ruffe IRcycc	Ruijle-Hotel > Ruijle (1994/1994) 0 Hotmanne: Ruijle SN: HI Coverview Basics > Security > Behavior > VPN > Advanced - Cloud Auth Local Account Auth Authorized Auth OR Code Auth A user configured with whitelisted IP or MAC address can access the User Whitelist Use to SP entries can be added. P 1 3 10/page > IP Whitelist	English ~ OR Add × * IP/IP Range 192.168.110.8 IP/IP Range IP/IP Range	ujie Cloud
Curriev SOnline Clients Router ♥ Wireless ♥ Switches ₹Network ♥	Ruijle-Hotel > Ruijle (Kindel) 0	English ~ OR Add × + + 19/1P Range 192.168.110.8 Cancel OK No Data	ujie Cloud MDownload App ♦ Network Setup @ Network Check _ Warn ⊡ Log Out (○ Reboot + Add @ Delete Selected Action Total 0 + Add @ Delete Selected
Ruffe IRcycc Overview Sonline Clients Image: Contract of the second s	Ruijle-Hotel > Ruijle (Ruijle): SN: H1 • EG103G-P Hotmanne: Ruijle: Overview Basics < Security	English ~ OR Add * * * *IP/IP Range 192.168.110.8 IP/IP Range No Data	ujie Cloud
Ruffie IRcycc	Ruijle-Hotel > Ruijle (Markel) Hostname: Ruijle Sh: Hi • EG105G-P Overview Basics < Security < Behavior < VFN < Advanced	English ~ CR Add × i *IP/IP Range 192.168.110.8 BP/IP Pange No Data IP/IP Range	ujie Cloud MDownload App ♦ Network Setup @ Network Check M Warn ⊡ Log Out @ Reboot # Add Delete Selected Action Total 0 # Add Delete Selected Action

User Whitelist: The user can access internet without authentication. Up to 50 entries can be added.

IP Whitelist: Users can access this external IP without authentication. Up to 50 entries can be added.

URL Whitelist: Users can access this URL without authentication. Up to 100 entries can be added.

The following URL is the default URL added for the Cloud Auth.

URL Whitelist		+ Add 🗈 Delete Selected
Up to 100 entries can be added.		
	URL	Action
	ruijienetworks.com	Edit Delete

MAC Whitelist: The MAC can access internet without authentication. Up to 250 accounts can be added.

MAC Blacklist: The MAC can't do authentication.

4.1.11.6 Online Clients

Ruíjie &Rcycc	Ruijie-Hotel > Ruijie (Moster) Ø				English 🗸 🛆 Ruijie Cloud	顓Download App	Network Setup	@ Network Check	逝Warn ☐Log Out
&Overview ⑧Online Clients	Rosse Hostname: Ruijie • EG105G-P	SN: H1	IP: 1	MAC: E	C 35				(1) Reboot
⇔ Kouter ⇔ Wireless ~	Cloud Auth Local Account Auth Auth	orized Auth QR Code Auth	Whitelist Onlin	ne Clients					
Network V	Online Clients Auth Settings Idla Client Tenant III Com	nn F (FF2F)							
	Idle Client Timeout	Je: 5-65535)							
	Online Clients				Search by IP Address	~ Enter	٥	C Refresh	Delete Selected
	Username	IP	MAC	Up on	Duration(Sec)	Auth Ty	pe	Status	Action
	test1	192.168.120.8	2ff	2022-4-15 10:38:10	0	Passwor	ď	Online	Delete
	< 1 > 10/page ~								Total 1
«Collanse									

Idle Client Timeout: The idle client will be kicked offline after 15 minutes. (Range: 5-65535 Min)

Search Function: Search by IP Address, Search by MAC, Search by Username.

Delete: The clients will be kicked offline, need to do re-auth then can access internet again.

4.1.12. Behavior

Application Scenario



Procedure

4.1.12.1 App Control

1. Click Router->Behavior->Address Management to add the IP address group for clients.

Rujjie Rcycc	Ruijie-Hotel > Ruijie (Minstor) 🕖		English ~ _ CRuijie Cloud 📓	lownload App 👌 Network Setup @ Network Check Warn 급 Log Out
් ⁸ a Overview ඔ Online Clients ඕ Router	■ EG105G-P Hostname: R Overview Basics ∽ Security ∽	uijie SN: H1 IP: *	MAC: EC:B5 1-35	(O) Reboot
ি Wireless ✓ এ Switches	 IP Address Management IP Address Group List 	App Control Website Management QQ Management		⑦ + Add □ Delete Selected
空Network ~	Up to 20 entries can be added.	Access Control Address Management Time Management	IP Range	Action
		All Addresses	1.1.1.1-255.255.255.255	Edit Delete:
≪Collapse				

Reyee Cookbook

Reycc	Ruijie-Hotel > Ruijie (Missine) @	English ~	Ruijie Cloud i酸Download App
e [®] s Overview ⊗ Online Clients	EG105G-P Overview Basics × Security × Behavior × VPN × Act	IP: 1. MAC: EC	(@ Reboot
♥Wireless ♥Wireless ♥ Wireless ♥ Wireless ♥ Wireless ♥ Wireless	IP Address Management IP Address Group List	* Group Name Guest * IP Range 192.168.110.2-192.168.110.254 +	+ Add Delete Selected
	Up to 20 entries can be added.	Cancel OK	Action
«Collapse			
	Guest	192.168.110.2-192.168.110.254	Edit Delete
	Server	192.168.12.13	Edit Delete

2. Click Router->Behavior->APP Control to add policy for rejecting the guest to access Facebook and YouTube

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Minstar) 0			English ∽ Ruijie Cloud	闘Download App 合 Network Setup 🧔	Q Network Check
් Overview ම Online Clients @ Router	• EG105G-P Hostname: R Overview Basics ~ Security ~	uijie SN: F 7754 Behavior VPN × Advanced × Diag	IP: 1 M	AC: EC:B		(1) Reboot
ক Wireless 🗸 🗸	App Control	App Control Website Management				0
Switches	App Control	QQ Management Access Control		Feature	Library Version: International ~	+ Add 🗎 Delete Selected
NELWOIK	Up to 50 entries can be added.	Address Management				
	IP Address Group	Time Management ne	Blocked App	Status	Remark	Action
			No Da	ta		
						G
						4

Reyee Cookbook

Rujje	Ruijie-Hotel > Ruijie Wittened O				English ~	△Ruijie Cloud	op	@Network Check
Solution Clients	Hostname: Ruijle SN: H1CH68L045 EG105G-P Overview Basics × Security × Behavior × VPN × Ar	5754 App	IP: 172.26.6.124	MAC: EC:89:71	10:17:39:35 ×			(U Reboot
⇔ Wireless	IP App Control	P Address Group	Guest					0
Switches	App Control	Time	All Time			Feature Library Version:	International 🔍	+ Add Delete Selected
李Network ~	Up to \$0 entries can be added.	* Blocked App	GoogleVideolyoutube × Youtube-live ×					
	IP Address Group Tin		FacebookLite × FacebookLite ×	×		s (Remark	Action
	Guest O All Tin	Remark	Facebook and Youtube			Ø Facebook	k and Youtube	Edit Delete
		Status						
				Cancel	ОК			
								(* 41
« Collapse								

IP Address Group: Set a managed IP address group.

Time: Set a managed time span when managed clients cannot access the blocked application.

Blocked List: Select applications to be blocked.

Remark: Set a remark up with 64 characters long.

Status: Enable or disable a rule.

3. Try to access Facebook on Guest PC, failed.



This site can't be reached
www.facebook.com took too long to respond.
Try: • Checking the connection • Checking the proxy and the firewall • Running Windows Network Diagnostics

4.1.12.2 Website Management

1. Click Router->Behavior->Address Management to add the IP address group for clients.

Details

Reyee Cookbook

RCycc	Ruijie-Hotel > Ruijie (Mastari Ø			English <	へ Ruijie Cloud 調Download App		Check 🖄 Warn 🕞 Log Out
ింOverview తిOnline Clients	EG105G-P	Ruijie SN: H1	IP: 14	MAC: EC:BS 1:35			(1) Reboot
A Router	Overview Basics ~ Security ~	Behavior ^ VPN ~ Adv	ranced ~ Diagnostics ~ System ~				
	 IP Address Management 	App Control					0
Switches	IP Address Group List	QQ Management				+ Add	Delete Selected
-e- -e-Network	Up to 20 entries can be added.	Access Control					
		Time Management		IP Range		Action	
		All Addresses		1.1.1.1-255.255.255.255		Edit Delete	
							6
≪Collapse							
<i>Iluijie</i> Rcycc	Ruijie-Hotel > Ruijie (Masteri) Ø			English <	・ 〇 Ruijie Cloud - 識 Download App	용 Network Setup @ Network C	Check <u>₩</u> Warn ⊡Log Out
A Overview							
	Roome Hostname:	Ruijie SN: H	IP: 1	MAC: EC:			
Online Clients	Hostname: 4	Ruijie SN: H	IP: 1. Add IP Address	MAC: EC			(U) Reboot
⊗ Online Clients	EG105G-P Overview Basics × Security ×	Ruijie SN: H Behavior - VPN - Ad	Add IP Address	MAC: EC			(2) Reboot
 Online Clients Router Wireless 	EGIOSC-P Verview Basics Scurity S IP Address Management	Ruijie SN: H Behavior – VPN – Ad	Add IP Address * Group Name Guest	MAC EC 5			(1) Reboot
 Online Clients ➡ Router ♥ Wireless × ➡ Switches ➡ Naturati × 	EGIOSG-P Overview Basics Security S P Address Management IP Address Group List	Ruijie SN: H Behavior VPN ~ Ad	Add IP Address *Group Name Guest *JP Range 192.168.110.2	MAC: EC5 × -192.168.110.254 +		+ Add	(*) Reboot
Image: Clients Image: C	• EG105G-P Verview Basics × Security × P Address Management IP Address Group List Up to 20 entries can be added.	Ruljie SN: H Behavlor – VPN – Ad	PF Ix Add IP Address *Group Name Guest *IP Range 192,168.1102	MAC: EC2 ×		+ Add	() Reboot
© Online Clients ■ Router ♥ Wireless × ■ Switches ■ Network ×	• EG105C-P Overview Basics & Security & P Address Management IP Address Group List Up to 20 entries can be added.	Ruijie SN: H Behavior – VPN – Art Group Name	P: Is Add IP Address * Group Name Guest * IP Range 192.168.110.2	MAC: EC. 25 × 		+ Add Action	 ⑦ Reboot ⑦ ① Delete Selected
©Online Clients Router × ≪Wireless × Switches × Xetwork ×	Hostname. I Hostname. I Hostname. I PAddress Management IP Address Group List Up to: 20 entries can be added.	Ruijie SN: H Behavior VPN V Ao Group Name All Addresses	IP: 1x Add IP Address *Group Name Guest *IP Range 192.168.110.2	MAC: EC. 3 × 192.168.110.254 + Cancel OK 1.1.1.1-255.255.255		+ Add Action Edit Delete	() Reboot
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© Online Clients Router ♥ Wireless × Switches ≫ Network ×	• EG105C-P Overview Basics S Security S • PAddress Management IP Address Group List Up to 20 entries can be added.	Ruijie SN: H Behavior VPN × Art Group Name All Addresses	P: N Add IP Address * Group Name Guest * IP Range 192.168.110.2	MAC: EC5 × 192.168.110.254 + Cancel OK 1.1.1.1-255.255.255		+ Add Action Edit Delete	 Rebot Rebot Delete Selected
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©Online Clients ■ Router ♥ Wireless × ■ Switches ■ Switches ■ Network ×	• EG105C-P Overview Basics & Security & Paddress Management IP Address Group List Up to 20 entries can be added	Ruijie SN: H Behavior VPN × Ad Group Name All Addresses	P: N Add IP Address * Group Name Guest * IP Range 192.168.1102	MAC: EC. 5 × -192.168.110.254 + Cancel OK 1.1.1.1-255.255.255		+ Add Action Edit Delete	() Reboot
©Online Clients Router ♥Wireless Switches Xetwork V	Hostname. Hostname. Hostname. Hostname. Hostname. PAddress Management IPAddress Group List Up to 20 entries can be added.	Ruijie SN: H Behavior VPN - Art Group Name All Addresses	P: N Add IP Address *Group Name Guest *IP Range 192.168.1102	MAC: EC5 × 		+ Add Action Edit Oelete	Rebot
©Online Clients Router ♥Wireless 2Network *	Hostname. Hostname. Nordeline Hostname. Pourdee Basics Security Security PAddress Management IPAddress Group List Up to 20 entries can be added.	Ruijie SN: H Behavior VPN - Ao Group Name All Addresses	PE IX Add IP Address *Group Name Guest *IP Range 192.168.1102	MAC: EC. 5 × -192.168.110.254 + Cancel OK 1.1.1.1-265.255.255.255		+ Add Action Edit Delete	© Reboot
©Online Clients ⇒ Router ⇒ Wireless × ⇒ Network × × Network × × Cellapee	Hostname.I Overview Basics Security PAddress Management IP Address Group List Up to 20 entries can be added.	Ruijie SN: H Behavior VPN × Ad Group Name All Addresses	Add IP Address * Group Name Guest * IP Range 192.168.1102	MAC: EC5 × -192.168.110.254 + Cancel OK 1.1.1.1-255.255.255255		+ Add Action Edit Delete	() Reboot
©Online Clients Router Switches Switches Network Collapse Collaps	Hostname. Hostname. Norderse Basics Security Security P Address Management P Address Group List Up to 20 entries can be added.	Ruijie SN: H <u>Behavior VPN - As</u> Group Name All Addresses	PE & Add IP Address *Group Name Guest *IP Range 192.166.1102	MAC: EC. 5 × 192.168.110.254 + Cancel OK 1.1.1.1-255.255.255 1.1.1.1-255.255.255		+ Add Action Edit Delete	Reboot Delete Selected

2. Click **Router->Behavior->Website Management** to add policy for rejecting the Guest to access Facebook and YouTube website. Click **Website Group->Add**, fill the group information like following

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	Hostname: Ruijle SN: Hn EG105G-P Overview Basics ~ Security ~ Behavior ~ VPN ~ Advance	2754 IP: 1 24 MAC	173935 ×	(2) Reboot
⇔ Wireless	Website Filtering Website Group	* Group Name Guest		
Switches	Website Group The group member can be a complete URL (example: www.baidu.	* Member *.youtube.com *.facebook.com		0
	Website Group		æ	+ Add Delete Selected
	Up to 20 entries can be added.			
	Group Name	Cancel	ОК	Action
	Games	duowan.com Mo	re	Edit Delete
	Finance	*.10jqka.com.cn M	ore	Edit Delete
	Social	*.baihe.com Mo	e	Edit Delete
	C Shopping	*.taobao.com Mo	re	Edit Delete
	□ Ufe	*.55bbs.com Mo	e	Edit Delete
	C Music	*.1ting.com Mor	e	Edit Delete
«Collapse	Entertainment	67.com More		Edit Delete

3. Click Website Filtering->Add, choose the IP Address Group and Blocked Website to guest.

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ింOverview (ల్) Online Clients Router	• EG105G-P Hostname: Rulije SN: h Add Wel	Ps.	MAC: EC	35 ×		(1) Reboot
⇔Wireless ~	Website Filtering Website Group	Iress Group Guest	~			
Switches	Website Filtering	Time All Time				0
Network *	Website Filtering	ed Website Guest ×	× ×		+ Add	Delete Selected
	Up to 20 entries can be added.	Remark				
	IP Address Group Control Type	Status 🚺		Status	Remark	Action
			Cancel			
						(). A
«Collapse						

4. Try to access Facebook on Guest PC, then you can see the Facebook page failed.



This site can't be reached	
www.facebook.com took too long to respond.	
Try: • Checking the connection • Checking the proxy and the firewall • Running Windows Network Diagnostics	
ERR_CONNECTION_TIMED_OUT	
Reload	Details

4.1.12.3 Access Control

Configure Access Control to block/allow client A to access internet, or block/allow Clients A to Clients B.

1. Click **Router->Behavior->Access Control-> Add**, choose MAC to block or allow the clients based on MAC. The policy will take effect from top to button.

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्रैः Overview ® Online Clients @ Router	Hostname: Rulije SN: H • EG105G-P Overview Basics × Security · Behavior VPN × Ad	asa Add Rule	IP: 15	MAC: EC:89:70:17:39:35			(U) Reboot
♥Wireless ×	ACL Configure ACL based on IP addresses. Reverse flow mismatches The policy cannot take effect on the WMA port to block the traffic Example. Configure a day ACL entry constaining searce 19 address Tay: Configure on enror deny ACL entry containing searce IP address Tay: Configure on enror deny ACL entry containing searce IP address ACL and ACL address addre	Based on * MAC Control Type	MAC IP 00:e0:4c:58:42:ff Block		is effect in the LAN network. IP address 192.168.1.x will fail to access I be multially unreachable.	device 192.168.2.x. But device	192768.2.x will be allowed
	ACL List Up to 50 entries can be added.	Wireless Schedule Remark	All Time RX1501			+/	Add 🗈 Delete Selected
	Rule Control Type			Cancel	ate Remark RX1501	Match Order	Action Edit Delete
	MAC 00x674c6842ff Block	All Time	WAN	Active	RX1501		Edit Delete Total 2
«Collapse							R A

2. Choose IP to block/allow Clients A to Clients B based on IP.

Example: Block Guest (192.168.110.0/24) to access Server(192.168.12.13)

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Configuration

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Soverview	• EG105G-P Overview Basics ~ Security	ne: Ruijie SN: H10 v × Behavior × VPN × Ad	2H6RL045754 Add Rule	IP: 172.26.6.124 MAC:	: EC:89:70:17:39:35 ×				(U) Reboot
⇔Wireless 🗸	ACL		Based on	MAC O IP					
Switches	Configure ACL based on IP a The policy cannot take effect Example: Configure a deny	ddresses. Reverse flow mismatches . t on the WAN port to block the traffic ACL entry containing source IP addr	Src IP Address: Port	192.168.110.0/24 :	1-65535	is effect in the LAN network. IP address 192.168.1.x will fai	I to access device 192.168.2.x. 8	lut device 192.168.	2.x will be allowed
Network 👻	Tip: Configure one more de	ny ACL entry containing source IP a	Dest IP Address: Port	192.168.12.13 :	1-65535	be mutually unreachable,			
	ACL List		Protocol Type	All Protocols				+ Add	Delete Selected
	Up to 50 entries can be added.		Control Type	Block (Reverse flow mismatches)	s) ~				
	Rule	Control Type	Wireless Schedule	All Time		ste Re	emark Ord	ch er	Action
	MAC 00:e0:4c:68:42:ff	Allow	Interface	LAN		RJ	K1501 4		Edit Delete
	MAC 00:e0:4c:68:42:ff	Block	Remark	Enter the ACL purpose.		RJ	K1501 P		Edit Delete
	1 10/page ~								Total 2
				Car	incel OK				
									(e
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Wireless schedule: Effective schedule.

Interface: Since Guest and Server both are in LAN network, it is recommended to choose LAN port.

3. Click Match Order to move up or down the policy.

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_{δ²δ} Overview								
Online Clients	EG105G-P	SN: H1QH6RL	045754 IP; 172.2	26.6.124 MAC:	EC:B9:70:17:39:35			(U) Reboot
A Router	Overview Basics ~ Security ~ Bet	New Yerk Verk Advanced	d ~ Diagnostics ~ Syste	m ~				
	ACL Configure ACL based on IP addresses.	Reverse flow mismatches						
Switches	The policy cannot take effect on the W/ Example: Configure a deny ACL entry	AN port to block the traffic among containing source IP address 19/	the internal users between an L 2.168.1.0/24 and destination IP	2TP server and an L2TP clie address 192.168.2.0/24.	ent. The policy only takes effect in the Device configured with IP address 192	LAN network. 2.168.1.x will fail to access do	evice 192.168.2.x. But dev	rice 192.168.2.x will be allowed
Network	Tip: Configure one more deny ACL en	try containing source IP address	192.168.2.0/24 and destinatio	n IP address 192.168.1.0/2	24. The two devices will be mutually u	inreachable.		
	ACL List						-	+ Add Delete Selected
	Up to 50 entries can be added.							
	Rule	Control Type	Wireless Schedule	Interface	Effective State	Remark	Match Order	Action
	MAC 00:e0:4c:68:42:ff	Allow	All Time	WAN	Active	RX1501	J	Edit Delete
	MAC 00:e0:4c:68:42:ff	Block	All Time	WAN	Active	RX1501	1	Edit Delete
	< 1 > 10/page >							Total 2
								e
«Collapse								41

🛕 Note

The policy cannot take effect on the WAN port to block the traffic among the internal users between an L2TP server and an L2TP client. The policy only takes effect when the traffic go from the LAN network.

Example: Configure a deny ACL entry containing source IP address 192.168.1.0/24 and destination IP address 192.168.2.0/24. Device configured with IP address 192.168.1.x will fail to access device 192.168.2.x. But device 192.168.2.x will be allowed to access device 192.168.1.x. Configure one more deny ACL entry containing source IP address 192.168.2.0/24 and destination IP address 192.168.1.0/24. The two devices will be mutually unreachable.

4.1.13. Flow Control

Application Scenario



Procedure

1. Click **Router->Advanced->Flow Control->Enable**, configure the WAN Bandwidth based on reality. For example, ISP give you a cable with uplink 100Mbps and downlink 200Mbps, you can fill up 100 Mbps and down 200 Mbps here, then click Save.

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중 Overview ② Online Clients	Item Hostname: Ruijie SN: H1QH6RL045754 IP: 172.26.6.124 MAC: EC89/7017/39:35 C) Reboot
Router	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×	
⇔ Wireless	Smart Flow Control	
≅ Switches 좋:Network ↔	Smart Flow Control Adjust the bandwidth allocated to each user according to the user count.	0
	Enable Type If you want to test the WAN rate, please disable smart flow control first.	
	WAN Bandwidth *Up 100 Mbps * Down 200 Mbps	
	WANI Bandwidth * Up 1000 Mbps * Down 1000 Mbps	
	Save	
		6
«Collapse		
	Note	
	NOLE	

If you want to test the WAN rate, please disable smart flow control first.

2. After enable flow control, you can see a new button Custom Policy. Click it to allocate bandwidth to the specified IP address or range. The priority is sorted as follows: **Custom Policy > Smart Flow Control.**

Reyce												
A Overview	EG105G-P Hostname: Rugle SN-1 Add	IP:	24		MAC: EG	35 ×					(U) Reboot	
⇔Wireless 🗸 🗸	Smart Flow Control Custom Policy * Policy Name	Guest										
Switches	Custom Policy Allocate bandwidth to the specified IP address or range. The p	192.1	68.110.2-192	168.110.25	1						0	
歪Network ~ ~	Bandwidth Type	Share	d							+ Add	+ Delete Selected	
	Uplink Rate	* CIR	1000	* PIR	2000	Kbps						
	Downlink Rate	* CIR	1000	* PIR	2000	Kbps	Interfac	e Sta	tus Effe	tive State	Action	
	Interface	All W	AN Ports									
	Status											
					Cancel	OK]					22

IP/IP Range: Set an IP address or IP address range.

Bandwidth Type: Shared indicates that all IP addresses share the total bandwidth. Independent indicates that the rate limit is set per IP address.

Uplink Rate:

CIR: CIR indicates the committed information rate.

PIR: PIR indicates the peak information rate.

Downlink Rate:

CIR: CIR indicates the committed information rate.

PIR: PIR indicates the peak information rate.

Interface: Select a WAN port which the policy is applied to. If choose All WAN Ports: The policy is applied to all WAN ports.

Status: Enable or disable a policy.

3. Do speed test, showing the guest only can reach under 2Mbps



4.1.14. Security

Application Scenario



Procedure

4.1.14.1 ARP List

1. Click **Router->Security->ARP List->Enable**, select the clients to bind IP-MAC then only the devices configured with IP-MAC binding are allowed to access the Internet which could avoid the attacker used bandwidth.

Rujje Rcycc	Ruijie-Hotel > Ruijie (Minster) 🛛			English 🗸 🛆 Ruijie Cloud	調Download App 合 Networ	k Setup @Network Check	ut
Overview Online Clients Router	• EG105G-P Overview Basics × Security ~	uijie SN: 75 Behavior V VPN V Advanced V	4 IP: 1 N Diagnostics ~ System ~	IAC: EC '5		(U) Reboot	
⇔Wireless ∨ @Switches	The device learns I MAC Filterin Enable ARP guard) Ig onnected to its interfaces. Yo improve network security.	u can bind or filter the MAC address.			0	
Network ~	ARP Guard	he devices configured with IP-MAC bindi	ng are allowed to access the Internet.	Search by IP/MAC	Q + Add		
	Up to 256 IP-MAC bindings can be a	added.					
	No.	MAC	IP	Туре		Action	
	1 00	::e0:4c:68:42:ff	192.168.110.8	Dynamic		@ Bind	
	2 30:	0d:9e:ec:b2:ab	172.26.4.1	Static		Edit Delete	
	3 c4:	70:ab:89:5a:1a	192.168.110.137	Static		Edit Delete	
	4 00:	:0e:c6:c2:a0:35	172.26.7.87	Dynamic		@ Bind	e
«Collapse	Total 4 10/page V 1	> Go to page 1					

4.1.14.2 MAC Filtering

Enable MAC address filtering and configure the filtering type to control the host's access to the Internet.

Blacklist Type: The following hosts are not allowed to access the Internet.

Ruíjie #Rcycc	Ruijie-Hotel > Ruijie (Minena) 0	English Caujje Cloud 뛟Download App 중 Network Setup @ Network Check 滋Warn 금Log Out
© Overview © Online Clients	Loss Hostname: Ruijie SN: H1 MAC: ECB • EG105G-P Overview Basics > Security -1 Behavior > VPN > Advanced > Diagnostics > System >	(O Reboot
☆Wireless ✓	MAC Filtering Enable MAC address filtering and configure the filtering type to control the host's access to the Internet.	0
∰Network ∨	MAC Filtering MAC Filtering The following hosts are not allowed to access the Internet. Filtering Type Blacklist Save Filtering Rule List MAC Remark 0 0 ff	+ Add Delete Selected Action Edit Delete
		Total 1
// Callanaa	i oj pago	
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Coupe Ruffe Reycc Online Clents Router Wateles Switches Switches	Ruijis-Hota 2 Ruije (MAC 3) Ste HIGHSRU045754 P: 17226.6.124 MAC: EC892 Verview Basics Security Behavior VIN Ar MAC Filtering MAC Filteri	English - Augie Coud Montoad App Network Setup Network Check Mi Warr [] tog Cut
Coupe Ruffe Reycc Soverview Online Clients Router Wireless Switches Network	Ruijie-Hotel 2 Kuijie (MARRIN O Image: Marrie Ruijie Ste HICHGHERELBASTSI p. 172.266.124 MAC ECERT Verview Basics Security Behavior VIN V Are Add Image: MAC Entering Add Image: MAC Filtering Image: MAC Entering Image: MAC Entering Image: MAC Entering Image: MAC Entering MAC Filtering Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Basicity Image: Mac Enterine Image: Mac Enterine Image: Mac Enterine Intering Type Ba	English - Augie Cloud Mowiload App & Network Setup & Network Check M Warn Diog Out
Couple Ruffe Reycc Online Clents Router Wireless Switches ENetwork	Ruijie-Hotal 2 Ruijie (MARRI) © Image: Machine: Ruijie Image: Machine: Ruijie Status: Machine: Ruijie Status: Machine: Ruijie Image: Machine: Ruijie Image: Machine: Ruijie Machine: Ruijie Image: Ruijie	English V Akuje Cloud Monadad App Network Setup Retwork Check Mi Warn Cloud Auto Del 739355 X X X X X X X X X X X X X X X X X X
Coupe Ruffe Reycc Online Clents Router Wireless Switches Switches	Ruijis-Hotal 2 Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Str. HIGHSBLOA5754 Image: Ruijis (1994) Image: Ruijis (1994) Str. Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Str. Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Str. Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (1994) Image: Ruijis (199	English - Augie Coud Download App & Network Setup & Network Check <u>A</u> WAm [] Log Out

Whitelist Type: Only the following hosts are allowed to access the Internet.

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ී Overview ම Online Clients ම Router	Hostname: Ruijie SN: H1C IP: 172 EG105G-P Overview Basics ~ Security Behavior ~ VPN ~ Advanced ~ Diagnostics ~ System	MAC: ECE			() Reboot
常Wireless ∨ □ Switches	MAC Filtering Enable MAC address filtering and configure the filtering type to control the host's access to the Internet.				0
žNetwork ∽	MAC Filtering MAC Filtering Only the following hosts are allowed to access the Internet. Filtering Type Whitelist Save Filtering Rule List			+ Add	Delete Selected
	Up to 80 rules can be added.				
	MAC	Remark		Action Edit Delete	
«Collapse	< 1 > 10/page ~				Total 1
Filtering Rule Lis	t			+ Add	Delete Selected
Up to 80 rules can b	e added.				
	MAC	Remark		Action	
	00:eC 2:ff			Edit Delete	
< 1 > 10	/page v				Total 1

4.1.15. PPPoE Server

Application Scenario



FFF0L clients .10.44.00.100

Procedure

1. Click Router->Advanced->PPPoE Server->Global Settings, enable PPPoE Server.

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ి Overview (ల్లి Online Clients (ల్లె Router	Egust Hostname: Ruijie EG105G-P Overview Basics > Security > Behavior > VPN	SN: F IP: 24 MAC: EC	89:7	(1) Reboot
⇔Wireless ∨	Global Settings Account Settings Account Manager	Routing ; Online Clients		
-a- -a-Network	1. MAC binding and MAC filtering are not valid for PPPoE 2. The IP address of the PPPoE server cannot overlap with 3. The authentication function is not valid for PPPoE client	Authentication ⁵ Session Limit		0
	PPPoE Server Enable Disabled Mandatory PPPoE Dialup Enable Disable	Port Mapping Dynamic DNS UPnP Settings		
	* Local Address 10.44.66.99	Local DNS Other Settings		
	* IP Range 10.44.66.100-10.44.66.200 VLAN Default VLAN			
	Primary DNS Server 8.8.8.8			
	Secondary DNS Server Example: 1.1.1.1			e
« Collapse	* Unanswered LCP 10 Packet Himit	Range: 1-60		1
<u> </u>	Note			

1) MAC binding and MAC filtering are not valid for PPPoE clients.

2) The IP address of the PPPoE server cannot overlap with any interfaces' IP range.

3) The authentication function is not valid for PPPoE clients.

2. Fill PPPoE clients IP range, you can modify it or keep it on default. Choose the VLAN who need to do PPPoE dial up.

Ruijie IRcycc	Ruijie-Hotel > Ruijie (Manae) O	English - 🛆 Ruijie Cloud 📓 Download App 🐴 Network Setup 🛞 Network Check 💥 Warn 🔁 Log O
🖧 Overview © Online Clients	1. MAC Binding and MAC Bittering are not valid for PPPoE tilents. 2. The IP address of the PPPoE server cannot overlap with any interface IP range. 3. The authentication function is not valid for PPPoE clients.	0
@Router	PPPoE Server O Enable O Disabled	
⊕Wireless –	Mandatory PPPoE Dialup 🔿 Enable 💿 Disable	
圆Switches	* Local Address 10.44.66.99	
空Network ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	* IP Range 10.44.66.100-10.44.66.200	
	VLAN Default VLAN	
	Primary DNS Server 8.8.8.8	
	Secondary DNS Server Example: 1.1.1.1	
	* Unanswered LCP 10 Barrent 40	
	Packet Limit	
	Auth Mode 🖬 PAP 📑 CHAP	
	MSCHAP MSCHAP2	
	Save	
≪ Collapse		

Mandatory PPPoE Dial up: Enable or disable mandatory PPPoE dial up.

After you enable this function, only dial up users and exceptional clients can access the Internet. If you want to configure exceptional IP addresses, please choose Exceptional IP Address. If you only need the choosed VLAN to do PPPoE authentication, please disable this function.

Unanswered LCP Packet Limit: When the number of unanswered LCP packets exceeds the limit, the session will be disconnected automatically. Default: 10.

3. Click Account Management to add speed limit policy for clients.

ී Overview ම Online Clients ඬ Router	Toor Hostname: Ruijie SN: • EG105G-P Overview Basics ~ Security ~ Behavior ~ VPN ~ .	H IP: 172 Advanced > Diagnostics > System >	MAC: EC:89 5			(U) Reboot
♥Wireless	Global Settings Account Settings Account Management Account Management List Up to 10 entries can be added.	Exceptional IP Address Online Clients			+ Add	+ Delete Selected
	Account Name	Uplink Rate	Downlink Rate	Interface	e Acti	on
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Ruijie	Ruijie-Hotel > Ruijie (Marter) O						English ~	C Ruijie Cloud	副Download App	A Network Setup	Network Chec	k <u>mi</u> Warn ⊡Log Out
Sto Overview	Hostname: Ruijle SN: H1Ge • EG105G-P Overview Basics ~ Security ~ Behavior ~ VPN ~	16RL045754 dd	IP:	172.26.6.124		VIAC: EC:89:70):17:39:35 ×					(C) Reboot
♥Wireless	Global Settings Account Settings Account Managemen	* Account Name	Guest	1								
🖾 Switches	Account Management List	Uplink Rate	* CIR	1000	* PIR	2000	Kbps				+ Add	+ Delete Selected
Network	Up to 10 entries can be added.	Downlink Rate	* CIR	1000	* PIR	2000	Kbps					
	Account Name	Interface	All W/	N Ports					Interf	ace	Act	ion
« Collapse						Cancel	ОК	l				e Ai

Uplink Rate:

CIR: CIR indicates the committed information rate.

PIR: PIR indicates the peak information rate.

Downlink Rate:

CIR: CIR indicates the committed information rate.

PIR: PIR indicates the peak information rate.

Interface: Select a WAN port which the policy is applied to. If choose All WAN Ports: The policy is applied to all WAN ports.

4. Click Account Settings to add account.

Ruijie	Ruijie-Hotel > Ruijie (Miniu) 0		English - 🛆 Ruijie Cloud 📓 Download App	👌 Network Setup 🏾 🍳 Network Cl	neck <u>mi</u> Warn [→Log Out
ింOverview తి Online Clients Router		MAC: EC:B9			(1) Reboot
♥Wireless	Global Settings Account Settings Account Management Exceptional IP Address Online Clients				0
* Network	Account List Up to 35 entries can be added. Clients 0			+ Add	Delete Selected
	Username Password Expire Date	Status No Data	Account Management	Remark	Action
«Collapse					-

Reyee Cookbook

Ruijie RRcycc	Ruijie-Hotel > Ruijie (Moster) O		English	~ △Ruijie Cloud 📓Download App	Network Setup	Network Check	★Warn 日Log Out
e ² s Overview ⊗ Online Clients <u>■</u> Router	EGTOSG-P Hostnamu: Ruijie SN: H Overview Basics × Security × Behavior × VPN × Advant	754 IP 1 MAC ES	.35 ×				(1) Reboot
♥Wireless	Global Settings Account Settings Account Management E	* Username test123					
Switches	Account Settings	* Password test123					0
歪Network ~	Account List	Expire Date 2022-04-29				+ Add	Delete Selected
	Up to 35 entries can be added. Clients 1	Remark Length: 1-50 characters long.					
	Username Password	Status		Account Management	Remark	A	ction
		Flow Control					
		* Account Guest1 ~					
		Cancel	ок				
« Collapse							(P. Ai

Expire Date: Set expire date for the account. Max date: 2099-01-01.

Flow Control: Select the account management policy to limit speed for the account.

5. Dial up on PC, check the online status on EG.

Overview Bas	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×								
Global Settings	Account Settings	Account Management	Exceptional IP Address	Online Clients					
🧿 Online Cli	ients						(
Account Lis	t						Disconnect C Refres		
Online Clients	1								
	Username		IP Address		MAC	Up on	Action		
	test123		10.44.66.101		30:0D:9E:E7:E9:17	2021-06-10 18:16:35	Disconnected		

6. Click Exceptional IP Address to configure whitelist user who can access internet without authentication.

Ruíjie Rcycc	Ruijie-Hotel > Ruijie (Manar) 0			English -	Ruijie Cloud	調Download App	A Network Setup	Network Check	<u>}M</u> Warn ☐ Log Out
중 Overview ② Online Clients Router	Hostname: Ruijie SN: H1 • EG105G-P Overview Basics Security Behavior VPN V Advan	4 nced ∽ Diagnostics ∽	IP: 17. System ~	MAC: EC: .35					(1) Reboot
⇔Wireless ∨	Global Settings Account Settings Account Management	Exceptional IP Address	Online Clients						0
Network 🗸	Exceptional IP Address List						[+ Add	Delete Selected
	Start IP Address	End IP Address	,	Remark Io Data		Status		Action	
« Collanse									

Reyee Cookbook

Rujje	Ruijie-Hotel > Ruijie Winner 👁				English ~	△ Ruijie Cloud I Download App	♦ Network Setup @ Network Check <u>対</u> Warn 급Log Out
Source Clients	Hostname: Rulje • EG105G-P Overview Basics × Security × Behavio	SN: H S	4 IP:	MAC: ÉCIBS.	×		(U) Reboot
♥Wireless × @Switches ÆNetwork ×	Global Settings Account	ount Management	* Start IP 192.168.120.1 Address * End IP 192.168.120.2 Address Remark Status	54 Cancel	ok	Status	terms terms Action
« Collapse							(A
Global Settings	Account Settings Account Management	Exceptional IP Address	Online Clients				
i Exceptiona	IP Address						0
Exceptional I	P Address List						+ Add Delete Selected
Up to 5 entries	can be added.						
	Start IP Address	End IP Address		Remark		Status	Action
	192.168.120.1	192.168.120.254				Enable	Edit Delete

4.1.16. IPTV

Application Scenario

Scenario 1:



Scenario 2:



Procedure

a 1 Connect the ISP cable with WAN port, and connect your PC with LAN port. Using the default IP 192.168.110.1 to login Reyee EG and then refer to the wizard to let your EG can access Internet successfully.

b 2. Click Setup->Basics->IPTV/VLAN

Ruíjie Reyco	20211224 > EG105G-P-V2 (Navim) 0	English 🗸 🕜 Ruijie Cloud 📓 Download App 👌 Network Setup 🔞 Network Check 📺 Warn 🕒 Default Password
♣ Overview ⊗ Online Clients	Device Info Hostname: EG105G-P-V2 SN: F IP: 17 Automatic MAC: 002DcF8:1508:43 Software Ver: ReyeeOS 1.55:1914	WI-FI Setup>
≧ Switches	Net Status (Online Devices / Total) DHCP 1 Internet Router	¢ 0.00bps
≪ Collapse	Real-Time Flow (Kbps)	Kops v WAN v
Ruijie IRcycc	20211224 > EG105G-P-V2 (######) •	English - 🛆 Ruije Cloud 📓 Download App 🔌 Network Setup 🔌 Network Check 🚊 Warn 🕀 Default Password
8 Online Clients Image: Router Image: Router	Editosce-P-V2 Hostname: E5105G-P-V2 Verview Basics - Security - Behavior - VPN - Advanced - Diagnostics WAN	IP: 17226.693
Wireles ↔	IPTV LAN IPTVVVL IP46 Address P6E Port VI.AN IPTVVLAN * LAN1 IPTV * LAN2 IP-Phone * LAN2 IP-Phone * LAN3/WAN1 Internet * IPTV VLAN ID 100	
	IP-PRone VLAN ID 200 Internet VLAN B02.1Q Tag	

3. Configure the IPTV VLAN ID or IP-Phone VLAN ID:

1) If you are in following regions, you can choose the mode directly.

Reyee Cookbook

Ruijie IRcycc	20211224 > EG1056	s-P-V2 (Masant) 👁		English ~	C Ruijie Cloud	Download App	Network Setup	Network Check	<u>iði</u> Warn	Default Passwor
් Overview ම Online Clients	• EG105G-P-V2	Hostname: EG105G-P-V2 SN: EG349	2570019 IP: 172.26.6.93	MAC: 00:00:F8:15:	08:43					() Reboot
Router	Overview Basic	s > Security > Behavior > VPN > Advance	I ~ Diagnostics ~ System ~							
⇔Wireless ~	1 IPTV/VLAN	settings.								
Switches	IPTV/VLAN									
	* Mor	de Singapore-Singtel								
	* LAN	10 Singapore-Singtel								
	* LAN	Malaysia-Unifi 41 Malaysia-Maxis-I								
	+ LAN	Maylaysla-Maxis-2 12 Vietnam-Viettel								
	* LAN3/WAN	I1 Australia-NBN Custom								
	* IPTV VLAN	D 20								
	Internet VLA	N 💽 802.1Q Tag								
	* Internet VLAN	ID 10								
		Save								
« Collanse		19 19-11-11-11-1 70								

2) If you are not in these regions, you can choose custom, and contact with ISP for the IPTV setting, then connect the IPTV and IP-Phone with related LAN ports. For example, the IPTV VLAN is 100, IP-Phone VLAN is 200 and the .Internet VLAN ID is 300.

Ruijie Reyce	20211224 > EG105G-P-V2 (Ministry)	English - 🛆 Ruijle Cloud 📓 Download App 🔶 Network Setup 🗞 Network Check 🚊 Warn 🕒 Default Pasaword
종 Overview 종 Online Clients 종 Router	EG105G-P-V2 Hotmanie: EG105G-P-V2 SP IP: 17226.6:93 Overview Basks Security Behavior VPN Advanced Diagnostics System V	MAC; 00:0078150845
♥ Wireless ~	IPTV/VLAN settings.	
/ Switches	IPTV/VLAN	
⊉Network	* Mode Custom ~	
	* LANO Internet. ~	
	* LANT IPTV ~	
	* LAN2 IP-Phone ~	
	*LAN3/WAN1 Internet ~	
	+ IPTV VLAN ID 100	
	* IP-Phone VLAN ID 200	
	Internet VLAN () 802.1Q Tag	
≪ Collarse	* Internet VLAN ID 300	-

3) If you are scenario 2, after configuring IPTV setting on Reyee EG, you need to configure the IPTV VLAN 100 on WALL AP LAN port. If you are scenario 1, please ignore this step.

Click Wireless->LAN Ports->Add

Ruijie Reyce	Cloud_Auth_Test > EG105G-P	English ~	☐ Ruijie Cloud	證Download App	A Network Setup	Network Check	<u>所</u> Warn	🕒 Log Out
් Overview ම Online Clients	LAN Port Settings The configuration takes effect only for the AP with a LAN port, e.g., EAN Note: The configured LAN port settings prevail. The AP device with no	P101. LAN port settings will be enabled	with default settin	ngs.				
Router	Default Settings							
APs	VLAN ID	Add VLAN						
Wi-Fi Clients	(Range: 2-232 and 234-4090. A blank value indica WAN port.)	ates the same VLAN as						
Blacklist/Whitelist	Applied to AP device with no LAN port settings							
LAN Ports LED	Save LAN Port Settings				[+ Add	Delete Sele	ected
Network Optimization	Up to 8 VLAN IDs or 32 APs can be added (0 APs have been added).							
Switches	VLAN ID 0	Applie	d to			Actio	n	
Collapse		No Data						-

Configure VLAN ID to be 100, Applied to WALL AP.

ক Wireless	VLAN ID					
APs			Add VLAN	÷.		
	Edit			×		
Wi-Fi	VI	AN ID 100		0		
Clients	Applied to					
Blacklist/Whitelist	* App	ied to G1C 0534 🔘				
Radio Frequency			07	_		
LAN Ports	N Port Setti		Cancel	ок	+ Add	Delete Selected
LED U	Ip to 8 VLAN IDs or 32 APs car	be added (1 APs have been added).				
Network Optimization	VLAN ID \$		Applied to			Action
A Switches	1236					Edit Delete
*Network	1230					con pointe
«Collapse						

4.1.17. UPnP

Application Scenario

UPnP (Universal Plug and Play) is a protocol that enables application running on a host to automatically configure port mapping on the NAT-Router. On the other hand, enabling UPnP may pose potential danger to network security. There are three requirements for applying UPnP:

- 1) The device must be enabled with UPnP.
- 2) The operating system of the internal host must support UPnP.

Reyee OS 1.55 or later version can support IPTV.

3) The application must support UPnP.



Procedure

1. Click **Router->Advanced->UPnP Settings->Enable**. then enable UPnP function on your Phone or PC. The Router will auto detect your device and set port mapping for it. Finally you can use external IP and port to access your Phone or PC service.

Reyee Cookbook

Ruijie #Rcycc	ReyeeNetwork_01 > Ruijie (Winstool)	English 🗸 🛆 Ruijie Clou	d - 顓 Download App - 合 Network Setup	@ Network Check - 浙 Warn 日 Log Out
 Bouline Clients Router Wireless ✓ Switches Network ✓ 	Hostname: Ruijie SN EG105G-P-V2 MAC: 00:D 9:43 Overview Basics Security Behavior VPN S UPnP Settings UPnP (Universal Plug and Play) is a new Internet protocol a Enable Save UPnP List Protocol App	E 019 IP: 172 Advanced Diagnostics System S Routing Flow Control PPPoE Server Authentication Session Limit Port Mapping Dynamic DNS UPnP Settings Local DNS Other Settings o UPnP Device	Internal Port	C Reboot
« Collapse				(* Ai

4.2 Reyee ES Series Switches Configuration

4.2.1 System Settings

4.2.1.1 Device Info

Device Info displays device details, including Hostname, Model, MAC Address, IP Address, Submask, Gateway, DNS, SN, Firmware Version, Firmware Date and Hardware Version.

Rujje Reyee			English
Homepage			
System Settings 🔺		Collapse -	
Device Info		System Settings	
ID Settings	Hostname	ES209GC-P	
n soungs	Model	RG-ES209GC-P	
Account Settings	MAC Address	C0:B8:E6:E6:8D:77	
necoun scange	IP Address	192.168.110.3	
Reboot	Submask	255.255.255.0	
	Gateway	192.168.110.1	
Upgrade	DNS	192.168.110.1	
	SN	CAP	
Restore Default	Firmware Version	ESW_1.0(1)B1P3,Release(07200415)	
	Firmware Date	Aug 04 2020	
Monitoring ~	Hardware Version	1.30	

4.2.1.2 IP Settings

IP Settings could configure the management IP address and management VLAN for the device. Auto Obtain IP is set to **Enabled** by default. When **VLAN Settings** is set to **off**, the management VLAN is 1.

Configuration

uíjíe i «Reyee			
Homepage			
rstem Settings 🔺		Collapse	
Device Info		IP Settings	
IP Settings	VLAN	VLAN 1 V	
Account Settings	Auto Obtain IP	Enabled • If you disable this feature, multi-DHCP alarming will fail,	
Reboot	IP Address	192.168.110.3	
Unarada	Submask	255.255.255.0	
opgrade	Gateway	192.168.110.1	
Restore Default	Auto Obtain DNS	Enabled v	
Monitorina v	DNS	192.168.110.1	
Switch Settings 🗸 🗸		Save	
VLAN Settings 🛛 🗸			
QoS Settings 🗸			
PoE Settings			

When **VLAN Settings** is set to **on**, the following figure will be displayed.

	IP Settings
VLAN	VLAN 1 🗸
Auto Obtain IP	Enabled 🗸
	If you disable this feature, multi-DHCP alarming will fail.
IP Address	192.168.110.3
Submask	255.255.255.0
Gateway	192.168.110.1
Auto Obtain DNS	Enabled 🗸
DNS	192.168.110.1

When VLAN Settings is set to on, select the management VLAN from the configured VLANs (you can choose VLAN Settings > VLAN Members to add a VLAN).

You can change the status of Auto Obtion IP to Disabled to manually configure Static IP Address that belong to the management VLAN and DNS server for the device.

	IP Settings	
VLAN	VLAN 1 🗸	
Auto Obtain IP	Disabled 🗸	
	If you disable this feature, multi-DHCP alarming will fail.	
IP Address	192.168.110.3	
Submask	255.255.255.0	
Gateway	192.168.110.1	
Auto Obtain DNS	Disabled V	
DNS	192.168.110.1	

The device will be disconnected for a short time during the period of IP address configuration. If Auto Obtain IP is set to Enabled, the device needs to obtain an IP address from the uplink device, or you can enter the management IP address (10.44.77.200) for Web management.

After VLAN Settings is set to on, change the management VLAN and check whether the port VLAN contains the management VLAN to avoid IP address inaccessibility.

4.2.1.3 Account Settings

Under factory default settings, the eWeb management system displays a prompt, asking you whether to change the password. (You can configure switch functions only after changing the password.)

RUIJIe I #Re	yee	10.44.77.200 say						says							E	nglish 🔻 D
Homepage							You are not all password. Do	lowed to manage the d you want to change the	levice wi e passwo	th the default ord?						
System Settings	~									OK Car	ncel					
Monitoring	~	VLAN	I Settings Off	0					Devic	e Info						
			Mode	I: RG-E	\$218	GC-P		Firmware Ve	ersion:	ESW_1.0(1)B1F	3,Release(0)	7193011)				
Switch Settings	\sim		MAC Address	s: 00:D0):F8:2	1:80:41			SN:	G1NW21M000)217					
			IP Address	s: 0.0.0.	0			U	ptime:	00h 00min 43s) 					
VLAN Settings	\sim		Cloud Statu	s: Unco	nnec	ted		Host	tname:	ruijie		Edit				
QoS Settings	~		Port Info Refresh					Refresh List								
							Port Status By C					Ry/Ty		PoE		Doumlink
PoE Settings		Port	Ctatus		Conf	ig Status	Actual Status	Flow		Flow	Rate	Isolation Status	Loop Status	PoE	Action	Device
			Status	Spee	d	Duplex	Actual Status	Control(Config)	Con	trol(Actual)	(kbps)			Power	Action	Search
		Port 1	Enabled •	Auto	٠	Auto •	1000M/Full Duplex	Disabled 🔻		Disabled	10/145	Unisolated	Normal		227	12
		Port 2	Enabled •	Auto	•	Auto •	Disconnected	Disabled 🔹		Disabled	0/0	Unisolated	Normal			**
		Port 3	Enabled •	Auto	٠	Auto •	Disconnected	Disabled 🔻		Disabled	0/0	Unisolated	Normal			
		Port 4	Enabled •	Auto	٠	Auto •	Disconnected	Disabled 🔻		Disabled	0/0	Unisolated	Normal	~	770	
		Port 5	Enabled •	Auto	٠	Auto 🔹	Disconnected	Disabled •		Disabled	0/0	Unisolated	Normal	-	861	
		Port 6	Enabled •	Auto	٠	Auto •	Disconnected	Disabled •		Disabled	0/0	Unisolated	Normal			-

Click **OK**. The Web management system automatically redirects to the Account Settings page (or you can choose **System Settings > Account Settings** to configure the login password).

Ruífie I fiReyee		English 🗸
System Settings A	Collapse	
Device Info	Account Settings	
IP Settings	Tip:The device is under uniform management and cannot be configured with an independent password. Please use MACC or App to change the password of all devices. If you change the password of only this device, configuration synchronization will fall <u>Collease</u>	
Account Settings	Account admin	
Reboot	Password The password must contain only letters, numbers and the following special characters: <=>[](@#\$*().	
Upgrade	Confirm Password Confirm Password	
Restore Default	Save	
Vonitoring v		
Switch Settings \sim		
VLAN Settings 🛛 🗸		
QoS Settings 🛛 🗸		
PoE Settings		

Enter a new password according to password rules and then click Save. In the displayed dialog box, click OK.

Keep the configured device management password in mind. After the password is being changed, the eWeb management system may need re-authentication and login.

When switches are managed via a Self-Organizing Network (SON), no management password can be separately configured for the device and the global password needs to be configured on the master device.

	Account Settings
Tip: The device is under uniform management and cannot be com synchD#zation will fail. Please enter <u>192.168.110.1</u> to change the p	figured with an independent password. Please use MACC or App to change the password of all devices. If you change the password of only this device, configuration Jobal password.
Account	admin

4.2.1.4 Reboot

Click **Reboot** to reboot the switch.

Ruijie Reyee	English 🗸 Logout
Homepage	
System Settings 🔺	Collapse
Device Info	Reboot
IP Settings	Please click Reboot to reboot the switch. Reboot R
Account Settings	
Reboot	
Upgrade	
Restore Default	
Monitoring 🗸 🤟	
Switch Settings 🔍	
VLAN Settings 🗸 🗸	
QoS Settings 🔍 🗸	
PoE Settings	

4.2.1.5 Upgrade

Ruijie I Reyee		English	~ Log	jou
Homepage				
System Settings 🔺	Collapse			
Device Info	Local Upgrade			
IP Settings	Select File V Keep Old Config			
Account Settings	Decompress the package and select the bin file for upgrade.			
Reboot	Online Upgrade			
Upgrade	Online upgrade will keep the old configuration.			
Restore Default	Current Version ESW 1.0(1)B1P3,Release(07200415)			
Monitoring v	Latest Version The current version is the latest.			
Switch Settings 🗸				
VLAN Settings 🗸 🗸				
QoS Settings 🛛 🗸				
PoE Settings				

Local Upgrade

Click **Select File**. In the displayed dialog box, select a target upgrade package. (The software upgrade package is an xxx.bin file while the system upgrade package is an xxx.tar.gz file. You need to manually decompress the package and select the xxx.bin file for upgrade.)

F.J.	
Select File V Keep Old Config	
Decompress the package and select the hig file for upgrade.	
Occumpted are parently into an even on approve.	

Keep Old Config is selected by default. If the target version is much later than the current version, it is recommended not to choose Keep Old Config.

Online Upgrade

Online upgrade will keep your current configuration. If there is a new version available, the Upgrade button can be clicked. Click **Upgrade** button and then confirm upgrade. The device will download the new version from the Cloud and upgrade to the target version. The time it takes depends on network performance.

	Online Upgrade
Online upgrade will keep the old configuration.	
Current Version	ESW_1.0(1)B1P3,Release(07200415)
Latest Version	The current version is the latest.
	Upgrade

4.2.1.6 Restore Default

Click Restore to restore factory settings and reboot the device.

Ruijie IReyee	English v Logout
Homepage	
System Settings 🖍	Collapse
Device Info	Restoring
IP Settings	Restore factory configuration and reboot the device.
Account Settings	
Reboot	
Upgrade	
Restore Default	
Monitoring \sim	
Switch Settings \sim	
VLAN Settings 🗸 🗸 🗸 🗸 VLAN Settings	
QoS Settings 🗸 🗸	
PoE Settings	

4.2.2 Switch Settings

4.2.2.1 Port Settings

Reyee						
Homepage				4 5 6 7 8 9		
System Settings 🗸		Collance				
Monitoring ~				Port Settings		
Switch Cattings	After the port is	s shut down, it is no	t allowed to send or receive packe	ts(PoE is not affected). Shutting dow	n all ports will make the switch unmar	ageable. Please be cautious.
Switch Settings	Por	t	Status	Speed	Duplex	Flow Control
Port Settings	Selec	ct	Enabled 🔻	Auto 🔻	Auto •	Disabled 🔻
Port Mirroring				Save		
Port Mirroring Port Isolation				Save Port List		
Port Mirroring Port Isolation Static MAC	Prot	Shahar	Spee	Save Port List ed/Duplex	Flow	/ Control
Port Mirroring Port Isolation Static MAC	Port	Status	Spee Config Status	Save Port List ed/Duplex Actual Status	Flow Config Status	/ Control Actual Status
Port Mirroring Port Isolation Static MAC Search MAC	Port Port 1	Status -	Spee Config Status Auto/Auto	Save Port List ed/Duplex Actual Status Disconnected	Flow Config Status Disabled	/ Control Actual Status Disabled
Port Mirroring Port Isolation Static MAC Search MAC	Port Port 1 Port 2	Status Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto	Save Port List ed/Duplex Actual Status Disconnected Disconnected	Flow Config Status Disabled Disabled	/ Control Actual Status Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List	Port Port 1 Port 2 Port 3	Status Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto	Save Port List d/Duplex Actual Status Disconnected Disconnected Disconnected	Flow Config Status Disabled Disabled Disabled	Control Actual Status Disabled Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List	Port 1 Port 2 Port 3 Port 4	Status Enabled Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto	Save Port List ed/Duplex Actual Status Disconnected Disconnected 100M/Full Duplex	Config Status Disabled Disabled Disabled Disabled	/ Control Actual Status Disabled Disabled Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List /LAN Settings ~	Port 1 Port 2 Port 3 Port 4 Port 5	Status Enabled Enabled Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto Auto/Auto	Save Port List d/Duplex Actual Status Disconnected Disconnected Disconnected Disconnected Disconnected Disconnected	Flow Config Status Disabled Disabled Disabled Disabled Disabled	Actual Status Actual Status Disabled Disabled Disabled Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List /LAN Settings ~	Port 1 Port 2 Port 3 Port 4 Port 5 Port 6	Status Enabled Enabled Enabled Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto	Save Port List Actual Status Disconnected Disconnected 100M/Ful Duplex Disconnected Disconnected Disconnected Disconnected	Flow Config Status Disabled Disabled Disabled Disabled Disabled Disabled	A Control Actual Status Disabled Disabled Disabled Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List VLAN Settings ~	Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7	Status Enabled Enabled Enabled Enabled Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto	Save Port List Actual Status Disconnected Disconnected 100M/Full Duplex Disconnected Disconnected Disconnected Disconnected Disconnected Disconnected	Config Status Disabled	Control Actual Status Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled
Port Mirroring Port Isolation Static MAC Search MAC MAC List VLAN Settings \checkmark QoS Settings \checkmark	Port 1 Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8	Status Enabled Enabled Enabled Enabled Enabled Enabled Enabled	Spee Config Status Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto Auto/Auto	Save Port List Actual Status Disconnected	Config Status Disabled Disabled	Control Actual Status Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled

In the Port Settings page, you can configure the port status, speed, duplex mode, and flow control status of the ports.

vee Cookbook	Configuratio			
		Port Setting	<u>js</u>	
er the port is shut down, it is not a Port	illowed to send or receive packets(PoE is Status	not affected). Shutting down all ports will mak	ke the switch unmanageable. Please be cautious. Duplex	Flow Control

A disabled port cannot transmit or receive packets (the PoE function is not affected). Disabling all ports of a switch will make the switch unmanageable. Therefore, exercise caution when disabling ports.

In the **Port List**, it displays the configuration properties and the actual properties in effect for each port of the device.

Port List					
_	Chantra	Spee	ed/Duplex	Flow C	Control
Port	Status	Config Status	Actual Status	Config Status	Actual Status
Port 1	Enabled	Auto/Auto	1000M/Full Duplex	Disabled	Disabled
Port 2	Enabled	Auto/Auto	1000M/Full Duplex	Disabled	Disabled
Port 3	Enabled	Auto/Auto	Disconnected	Disabled	Disabled
Port 4	Enabled	Auto/Auto	100M/Full Duplex	Disabled	Disabled
Port 5	Enabled	Auto/Auto	Disconnected	Disabled	Disabled
Port 6	Enabled	Auto/Auto	1000M/Full Duplex	Disabled	Disabled
Port 7	Enabled	Auto/Auto	1000M/Full Duplex	Disabled	Disabled
Port 8	Enabled	Auto/Auto	Disconnected	Disabled	Disabled
Port 9	Enabled	Auto/Auto	Disconnected	Disabled	Disabled

4.2.2.2 Port Mirroring



Port Mirroring forwards input/output packets of one or more source port to the destination port to monitor the network. Select the source port, direction (Input/Output/All), mirror port for port mirroring configuration and click **Save**.

Port Mirroring				
Packets received and transmitted on the so switch)	surce port will be mirrored to the mirror port.(The image de	estination port can only grab packets and cannot transmit data with the		
Source Port Member	Direction	Mirror Port		
Port 2 ×	Output 🗸	Port 5 🗸		
	Save			

The following list shows the port mirroring configurations that currently exist:

	Port	Mirroring	
ackets received and transmitted on the s witch)	ource port will be mirrored to the mirror po	rt.(The image destination port can only g	grab packets and cannot transmit data with the
Source Port Member	Direction		Mirror Port
Select	Input 🗸		Port 1 🗸
		Save	
Source Port Member		Direction	Mirror Port
Jource For			

Only one port mirroring entry can be set, but multiple source ports are supported:

Source Port Member	Direction		Mirror Port	
Port 2 × Port 3 × Port 4 ×	All 🗸		Port 5 🗸	
Save				
Source Por	t Member	Direction	Mirror Port	
2-	4	All	5	
		Delete		

Destination mirroring ports on RG-ES205C-P, RG-ES205GC-P, RG-ES209C-P, and RG-ES209GC-P can only capture packets. They cannot transmit data to the switch.

4.2.2.3 Port Isolation

Port isolation implements layer-2 isolation of packets. After port isolation is enabled (which is disabled by default), data can be forwarded only between uplink ports and downlink ports, and downlink ports cannot forward packets to each other.

Configuration

Rujje Reyce		English	Y	Logout	*
System Settings 🛛 🗸	Collapse				
Monitoring ~	Port Isolation				
Switch Settings	Downlink ports (1-8) will be isolated from each other. Port 9 is an uplink port and will not be isolated (Packets will be forwarded only between the uplink port and the downlink ports).				
Port Settings	Status or				
Port Mirroring					
Port Isolation					
Static MAC					
Search MAC					
MAC List					
VLAN Settings \sim					
QoS Settings \sim					
PoE Settings					4

PC1: connect to Port 1, IP: 192.168.1.10 PC2: connect to Port 2, IP: 192.168.1.12

Ping the test results when the port Isolation turned off:

```
C:\Users\Administrator>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Reply from 192.168.1.10: bytes=32 time=2ms TTL=128

Ping statistics for 192.168.1.10:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 2ms, Maximum = 2ms, Average = 2ms
```

Ping test results when the port Isolation turned on:

```
C:\Users\Administrator>ping 192.168.1.10

Pinging 192.168.1.10 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Ping statistics for 192.168.1.10:

Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

4.2.2.4 Static MAC

The Static MAC page is divided into two parts:

Reyee Cookbook

Ruffe Reyee Homepage	1 2 3 4	5 6 7 8 9 nlink		English V Logout		
Monitoring ~		Collapse Static MAC Address				
Switch Settings	Up to 16 MAC addresses can be configured.					
Port Settings	MAC Address	VLAN ID	Port			
Port Mirroring	00:00:00:00:00	Add	Port 3 🗸			
Port Isolation	No. MAC Addr	ess VLAN ID	Port			
Static MAC		Delete				
Search MAC						
MAC List						
VLAN Settings \sim						
QoS Settings \sim						
PoE Settings						

Adding a static MAC address: Enter a valid MAC address and VLAN ID, select a port, and then click Add to add a static MAC address. Up to 16 static MAC addresses can be added.

VLAN ID	Port
10 (1-4094)	Port 3 🗸
	VLAN ID 10 (1-4094)

After VLAN Settings is set to off, no VLAN ID needs to be entered to add a static MAC address.

Displaying and deleting a static MAC address: After a valid static MAC address is added, the information will be displayed in the list below. Select a static MAC address and click Delete to delete the static MAC address.

	No.	MAC Address	VLAN ID	Port	
	1	F4:8E:38:F5:38:BA	10	3	
Delete					

4.2.2.5 Search MAC

With the **Search MAC** function, you can search for the MAC addresses learned by the device. MAC addresses can be fuzzily searched.

Configuration

Ruffe Reyce Homepage System Settings V	1 2 3 4 5 6 7 8 Downlink- Collaps MAC Addres	s Search	English v Logout
Switch Settings	MAC Address	VLAN ID VLAN ID (1-4094)	
Port Settings	Search		
Port Mirroring			
Port Isolation			
Search MAC			
MAC List			
VLAN Settings ~			
QoS Settings ~			
PoE Settings			

You can enter a part of a complete MAC address (such as c0:b8:e6:9a:43:0d) for searching.

MAC Address Search					
MAC Address	VLAN ID				
c0:b8:e6:9a:43:0d	1 (1-4094)				
Search					

The search results will show the information of VLAN ID, Type, Port corresponding to the MAC address:

MAC Address	VLAN ID	Туре	Port
C0:B8:E6:9A:43:0D	1	Dynamic	Port 6

After VLAN Settings is set to off, the VLAN ID column will not be displayed.

MAC Ad	dress Search	
MAG	Address	
00:00:00:	00:00:00	
	Search	
MAC Address	Туре	Port
C0:B8:E6:9A:43:0D	Dynamic	Port 6

4.2.2.6 MAC List

The **MAC List** page lists MAC addresses learned by the device.

Configuration

Rujje i sReyee						English 🗸	Logout
Homepage			6 7 8 9 Uplink				
System Settings 🛛 🗸			Collapse				
Monitoring ~			MAC Address Info				
	No.	MAC Address	VLAN ID	Туре	Port		
Switch Settings A	1	30:0D:9E:E7:E9:15	1	Dynamic	7		
	2	EC:B9:70:23:A4:97	1	Dynamic	2		
Port Settings	3	C0:B8:E6:9A:43:0E	1	Dynamic	6		
Dent Minnerium	4	C0:B8:E6:9A:43:0D	1	Dynamic	6		
Port Wirroring	5	30:0D:9E:D6:D3:A6	1	Dynamic	4		
Port Isolation	6	54:16:51:76:EA:8F	1	Dynamic	7		
Torcisolation	7	54:16:51:76:EA:90	1	Dynamic	7		
Static MAC			Clear Dynamic MAC				
			olear by hanne halle				
Search MAC							
MAC List							
VLAN Settings \sim							
QoS Settings V							
PoE Settings							

Click Clear Dynamic MAC, the device will re-obtain the list of learned MAC addresses.

No.	MAC Address	VLAN ID	Туре	Port
1	30:0D:9E:E7:E9:15	1	Dynamic	7
2	EC:B9:70:23:A4:97	1	Dynamic	2
3	C0:B8:E6:9A:43:0E	1	Dynamic	6
4	30:0D:9E:D6:D3:A6	1	Dynamic	4

After VLAN Settings is set to off, the VLAN ID column will not be displayed.

No.	MAC Address	Туре	Port
1	30:0D:9E:E7:E9:15	Dynamic	7
2	EC:B9:70:23:A4:97	Dynamic	2
3	C0:B8:E6:9A:43:0E	Dynamic	6
4	C0:B8:E6:9A:43:0D	Dynamic	6
5	54:16:51:76:EA:8F	Dynamic	7
6	54:16:51:76:EA:90	Dynamic	7
7	30:0D:9E:0B:7D:05	Dynamic	7
8	30:0D:9E:D6:D3:A6	Dynamic	4

4.2.2.7 DHCP Snooping

DHCP Snooping is used as a DHCP packet filter. The DHCP request packets will be forwarded only to the trusted port. Only the DHCP response packets from the trusted port will be allowed to forward.

Configuration

Ruffe #Reyee	1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16 17 18 Covinink Covining C	English V	Logout	4.
Monitoring ~	DHCP Spooning Settings			
Switch Settings A	Tip: DHCP Snooping functions as a DHCP packet filter. The DHCP request packets will be forwarded only to the trusted port. The DHCP response packets from only the trusted port will be allowed for forwarding.			
Port Settings	Note: Generally, the DHCP server port (uplink port) is set as the trusted port.			
Port Mirroring	DHCP Snooping: Off			
Port Isolation				
Static MAC				
Search MAC				
MAC List				
DHCP Snooping				
VLAN Settings 🗸				
QoS Settings 🗸 🗸				
PoE Settings				+

After **DHCP Snooping** is set to **on**, as shown in the figure below, the device sets the uplink port as a trusted port by default. You can select a port and click **Save** to set the port as the trusted port.

DHCP Snooping Settings
Tip: DHCP Snooping functions as a DHCP packet filter. The DHCP request packets will be forwarded only to the trusted port. The DHCP response packets from only the trusted port will be allowed for forwarding. Note: Generally, the DHCP server port (uplink port) is set as the trusted port.
DHCP Snooping: on
Select Trusted Port:
Select ALL/Unselect
Port 1 Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 11 Port 12 Port 13 Port 14 Port 15 Port 16 Port 17
Port 18
Save

The port connected to the DHCP server (uplink port) is configured as the trusted port generally.

The ES205GC-P and ES209GC-P do not support this feature.

4.2.3 VLAN Settings

4.2.3.1 VLAN Members

When VLAN Settings is set to off, the page is shown in the figure below:

Reyee Cookbook

Rujje fiReyee	1 2 3 4 5 6 7 8 9 Downlink	English v Logout
System Settings V	Collapse	
Monitoring ~	VLAN Members	
Switch Settings \sim	VLAN Settings Conf	
VLAN Settings	After VLAN settings are enabled, the device will forward packets based on the combination of the destination MAC address and VLAN ID You can configure a port as an accessfunction for and	
VLAN Members	whether to tag packets. All ports will be initialized as access ports.	
VLAN Settings		
QoS Settings 🛛 🗸		
PoE Settings		



Ruíjie i ⁽ 886)		English 🛩 Logout
Homepage		5 6 7 8 0 ilink
System Settings \sim		Collapse
Monitoring ~		VLAN Members
	VLAN Settings on 🔘 👔	
Switch Settings 🗸	VLAN settings are enabled. The device forwards packets based on the combination of the destination MAC address and VLAN	
VLAN Settings	ID. The access port is used to connect to the endpoint. An access	(1-4094)
VLAN Members	The packets received or transmitted on this port are untagged. The trunk port is used to connect to the switch. A trunk port may	Add
VLAN Settings	belong to multiple permit VLANs, but only packets of the native VLAN are untagged. After VLAN settings are disabled, all VLAN settings will be	VLAN ID
QoS Settings 🛛 🗸	cleared and the device will forward packets according to the destination MAC address	1
PoE Settings		Delete

After VLAN Settings is set to on, enter a valid VLAN ID and click **Add** to configure a new VLAN. Up to 16 VLANs can be configured.

	VLAN Members	
VLAN Settings on 🔘 🕐		
Up to 16 VLAN members can be configured.		
VLAN ID	6 (1-4094)	
	Add	

In the VLAN list, you can select VLANs and click Delete to delete them in batches.

No.	VLAN ID
1	1
2	6
	Delete

A VLAN ID bound to the port cannot be deleted.

4.2.3.2 VLAN Settings

When **VLAN Settings** is set to **on**, the page is shown in the figure below:

Reyce Homepage			3 4 5 6 7 8	9		Eng
System Settings 🗸 🗸			College			
			VLAN Setting	s		
Monitoring ~			· - · · · · · · · · · · · · · · · · · ·			
Cuitch Cottings	VLAN Settings on 🕖 (
switch settings v	You can go to VLAN Membe	rs to add a VLAN ID.				
VLAN Settings						
	Port	VLAN Type	Permit VLAN	The pa	ckets of this VLAN are untagged.	
VLAN Members	Select	Access 🗸	Select		VLAN 1 👻	
VLAN Settings						
			Save			
QoS Settings 🛛 🗸	Port	VLAN Type	Permit	t VLAN	Native VLAN	
	Port 1	Trunk	1	,6	1	
PoE Settings	Port 2	Trunk	1	,6	1	
	Port 3	Trunk	1	,6	1	
	Port 4	Trunk	1	,6	1	
	Port 5	Trunk	1	,6	1	
	Port 6	Trunk	1	,6	1	
	Port 7	Trunk	1	,6	1	
	Deat 9	Trunk	1	,6	1	
	POILO					

The VLAN Settings page is divided into two parts:

The upper part enables port VLAN configuration. You can select a port, set the VLAN type as (Access or Trunk; when Trunk is selected, Permit VLAN can be configured), Permit VLAN, and Native VLAN, and click **Save** to save the port VLAN configuration:

VLAN Settings							
VLAN Settings on 🔘 👔							
You can go to <u>VLAN Membe</u>	ers to add a VLAN ID.						
Port	VLAN Type	Permit VLAN	Native VLAN The packets of this VLAN are untagged.				
Port 3 ×	Access 🗸	Select	VLAN 6 🗸				
Save							

Native VLAN: The packets of this VLAN are untagged.

The lower part lists the port and VLAN settings:

Port	VLAN Type	Permit VLAN	Native VLAN
Port 1	Trunk	1,6	1
Port 2	Trunk	1,6	1
Port 3	Trunk	1,6	1
Port 4	Trunk	1,6	1
Port 5	Trunk	1,6	1
Port 6	Trunk	1,6	1
Port 7	Trunk	1,6	1
Port 8	Trunk	1,6	1
Port 9	Trunk	1,6	1

4.2.4 QoS Settings

4.2.4.1 Port Rate

You can configure the input and output rates for a port. The **Port Rate** page is divided into two parts:

Configuration

Rujjie Reyee Homepage System Settings v		1 2	3 4 5 6 7 8 8 Downlink Upper	
Monitoring ~		-	Port Rate	
Switch Settings 🗸 🗸	Port	Type	Status	Rate(Mbit/sec)
	Select	Input 👻	Disabled 👻	No Limit (1-1000M)
VLAN Settings ~			Save	
QoS Settings A	Port	Input Rate(Mbit/	/sec)	Output Rate(Mbit/sec)
	Port 1	No Limit		No Limit
Port Rate	Port 2	No Limit		No Limit
	Port 3	No Umit		No Limit
Storm Control	Port 4	No Limit		No Limit
	Port 5	No Limit		No Limit
PoE Settings	Port 6	No Limit		No Limit
	Port 7	1000		1000
	Port 8	No Limit		No Limit

Configuration part: Select one or more ports, set the port type and whether to enable rate limiting (if yes, enter the rate limit value of the port), and click Save.

		Port Rate	
Port	Туре	Status	Rate(Mbit/sec)
Port 2 ×	Input 🗸	Enabled 🛩	1000 (1-1000M)
		Save	

Display part: The input and output rates configured for device ports are displayed.

Port	Input Rate(Mbit/sec)	Output Rate(Mbit/sec)
Port 1	No Limit	No Limit
Port 2	1000	No Limit
Port 3	No Limit	No Limit
Port 4	No Limit	No Limit
Port 5	No Limit	No Limit
Port 6	No Limit	No Limit
Port 7	1000	1000
Port 8	No Limit	No Limit
Port 9	1000	1000

For RG-ES205C-P, the range of the port rate limit is from 1 Mbit/s to 100 Mbit/s.

For RG-ES209C-P, the maximum rate is 100 Mbit/s for ports 1–8, and the actual rate is 100 Mbit/s if a greater rate is configured. The range of the port rate limit is from 1 Mbit/s to 1000 Mbit/s for port 9.

For RG-ES226GC-P, RG-ES218GC-P, RG-ES205GC-P, and RG-ES209GC-P, the range of the port rate limit is from 1 Mbit/s to 1000 Mbit/s.

4.2.4.2 Storm Control

The **Storm Control** page is divided into two parts:

Configuration part: Specify the storm control type (Broadcast/Unknown Unicast/Unknown Broadcast), select ports, enable storm control, and enter the storm control rate. Click **Save** to configure storm control.

	Stori	m Control				
Туре	Port	Status	Rate(Mbit/sec)			
Broadcast 🗸	Port 2 ×	Enablec 🗸	1000 (1-1000M)			
Save						

Display part: The storm control types and rates configured for device ports are displayed (when storm control is enabled, the storm control rates are displayed).

Туре	Broadcast(Mbit/sec)	Unknown Unicast(Mbit/sec)	Unknown Broadcast(Mbit/sec)
Port 1	Disabled	Disabled	Disabled
Port 2	1000	Disabled	Disabled
Port 3	Disabled	Disabled	Disabled
Port 4	Disabled	Disabled	Disabled
Port 5	Disabled	Disabled	Disabled
Port 6	Disabled	Disabled	Disabled
Port 7	Disabled	Disabled	Disabled
Port 8	Disabled	Disabled	Disabled
Port 9	Disabled	Disabled	Disabled

For RG-ES205C-P, the range of the port rate limit is from 1 Mbit/s to 100 Mbit/s.

For RG-ES209C-P, the maximum rate is 100 Mbit/s for ports 1–8, and the actual rate is 100 Mbit/s if a greater rate is configured. The range of the port rate limit is from 1 Mbit/s to 1000 Mbit/s for port 9.

For RG-ES226GC-P, RG-ES218GC-P, RG-ES205GC-P, and RG-ES209GC-P, the range of the port rate limit is from 1 Mbit/s to 1000 Mbit/s.

4.2.5 PoE Settings

The PoE system status and PoE port status of the device are displayed.

REYEE							
Homepage			3 4 5 6 7				
System Settings v			Co	llapse			
Monitoring ~			Pol	Info			
Switch Settings 🗸	Total Power	Us	ed	Remain	ing	Work Status	
	120w	7.	5w	112.4	w	Normal	
VLAN Settings ~			PoE S	ettings			
QoS Settings v	BoE Status			-			
	When off, PoE will not work on this port	Port	Power(W)	Current(mA)	Voltage(V)	Power Status	Action
PoE Settings		Port 1	0	0	0	Powered Off	
	on 🔘	Port 2	7.5	141	53.3	Powered On	Re-Power On
	on 🔘	Port 3	0	0	0	Powered Off	375
	on	Port 4	0	0	0	Powered Off	
	on 🔘	Port 5	0	0	0	Powered Off	
	an 🔘	Port 6	0	0	0	Powered Off	
		Port 7	0	0	0	Powered Off	

System status: The total power, used power, remaining power, and work status of the PoE function of the device are displayed.

Pol	E Info	
Used	Remaining	Work Status
7.5w	112.4w	Normal
	Used 7.5w	PoE Into Used Remaining 7.5w 112.4w

Port status: The PoE voltage, current, power, and current power status of ports are displayed. You can choose whether to enable PoE function on a port and restart PDs.

PoE Status When off, PoE will not work on this port	Port	Power(W)	Current(mA)	Voltage(V)	Power Status	Action
on 🔘	Port 1	0	0	0	Powered Off	
on 🔘	Port 2	7.5	141	53.3	Powered On	Re-Power On
on 🔘	Port 3	0	0	0	Powered Off	
on 🕥	Port 4	0	0	0	Powered Off	
on 🔘	Port 5	0	0	0	Powered Off	
on 🔘	Port 6	0	0	0	Powered Off	
on 🕥	Port 7	0	0	0	Powered Off	
on 🔵	Port 8	0	0	0	Powered Off	

Fiber ports (last two ports) of RG-ES226GC-P and RG-ES218GC-P do not support the PoE function.

Disabling PoE on a port will stop powering downlink devices connected to the port.

4.3 Reyee NBS Series Switches Configuration

4.3.1 VLAN

4.3.1.1 VLAN List

In the VLAN List screen, you can add and delete VLANs and edit the VLAN description. The time for loading the VLAN page increases when there are many VLAN entries.

Batch adding VLANs/Adding a single VLAN

The VLAN range is 1–4094.

Click **Batch Add**. In the displayed dialog box, enter VLANs or a VLAN range (separate multiple VLANs by using commas (",")), and click **OK**.

Ruíjie Reyce						
25Home	VLAN List				+ Batch Add	+ Add 🛛 🕞 Delete Selected
∰Monitor ~	U. VLAN	ID ¢	Description	Port		Action
□L2 Multicast ⊕L3 Interfaces			VLAN0001 VLAN0010	Gi1-24,Te25-28 Gi1-2		Edit Delete
⊘ Security ~	Total 2 10/page - 1	Go to page 1	Batch Add	×		
© Diagnostics	Port	Port Mode	3-5,100	el OK tive VLAN	Permit VLAN	Action
	GI1 GI2	TRUNK		1	1-4094	Edit
	GI3	ACCESS	1			Edit
	GIS	ACCESS	, t			Edit
	Gi6 Gi7	ACCESS	t X			Edit

The added VLANs are displayed in VLAN List.

Reyee Cookbook

Ruíjie I IRcy	ycc	test123_1_Auto > NBS5200 0	Add operation succeeded.	En	glish ~Ruijie Cloud 親Download App 合Wizard 日Log Ou
응 Home 중 VLAN		VLAN List			+ Batch Add + Add 🛛 Delete Selected
雪 Monitor	~	Up to 4094 entries can be added.(The default VLAN, manage	ment VLAN, native VLAN, svi Vlan, MVR vlan and access VLAN cannot be deleted.		
Ø Ports		VLAN ID \$	Description	Port	Action
□L2 Multicast		E 1	VLAN0001	Gi1-24,Te25-28	Edit Delete
L3 Interfaces		3	VLAN0003	Gi1-2	Edit Delete
⊘ Security	~	D 4	VLAN0004	Gi1-2	Edit Delete
≅Advanced	~	5	VLAN0005	GI1-2	Edit Delete
Q Diagnostics	v	10	VLAN0010	Gi1-2	Edit Delete
System	~	100	VLAN0100	Gi1-2	Edit Delete
		Total 6 10/page 🗸 🤇 1 > Go to page 1			

Click Add. In the displayed dialog box, enter the VLAN (mandatory) and VLAN description, and click OK.

Ruíjie IRcy	/CC	test123_1_Auto > NBS52	00 🕶					English 🗸 🛆 Ruijie Cloud	読Download App 合 Wizard 日 Log C
ిం Home క్రి?VLAN		VLAN List 🕒		_				+ Batch Add	+ Add
型 Monitor		Up to 4094 entries car	t be added.(The default VLAN, m	Add			×		
@ Ports			VLAN ID ©	* VLAN ID:	200	 Range: 1-4094 			Action
CL2 Multicast			1	Description:	guset	Max: 32 characters.	-28		Edit Delete
			3						Edit Delete
⊘ Security			4			Cancel			Edit Delete
Advanced			5		VLAN0005		Gi1-2		Edit Delete
© Diagnostics			10		VLAN0010		Gi1-2		Edit Delete
掌 System			100		VLAN0100		Gi1-2		Edit Delete
		Total 6 10/page -	Go to pag	• 1					
		Port List 😑							& Batch Edit
		Port		Port Mode	Access VLAN	Native VLAN		Permit VLAN	Action
		Gil		TRUNK		1		1-4094	Edit
		Gi2		TRUNK		1		1-4094	Edit
		Gi3		ACCESS	Ť				Edit
«Collapse									

If no VLAN descriptions are configured when VLANs are added, the system creates VLAN descriptions in corresponding formats, for example, VLAN000XX. VLAN descriptions cannot be repeated.

VLAN List 😑 + Batch Add + Add Delete Selected Up to 4094 entries can be added.(The default VLAN, ma N, svi Vlan, MVR vlan and nt VLAN, native VLAN ID \$ Description Port Action VLAN0001 Gi1-24.Te25-28 Edit Delete VLAN0003 Gi1-2 Edit Delete 4 VLAN0004 Gi1-2 Edit Delete VLAN0005 Gi1-2 Edit Delete 10 VLAN0010 Gi1-2 Edit Delete 100 **VLAN0100** Gi1-2 Edit Delete 200 Gi1-2 Edit Delete guset Go to page 1 Total 7 10/page 🖂 1

The added VLAN is displayed in VLAN List.

Batch adding VLANs/Adding a single VLAN

The default VLAN (VLAN 1), management VLAN, native VLAN, and access VLAN cannot be deleted.

```
Select multiple entries in VLAN List and click Delete Selected.
```

VLAN List	•			+ Batch Add + Add Delete Selected				
Up to 4094 er	Up to 4094 entries can be added.(The default VLAN, management VLAN, native VLAN, svi Vian, MVR vian and access VLAN cannot be deleted.)							
	VLAN ID \$	Description	Port	Action				
	1	VLAN0001	Gi1-24,Te25-28	Edit Delete				
	3	VLAN0003	Gi1-2	Edit Delete				
	4	VLAN0004	Gi1-2	Edit Delete				
	5	VLAN0005	Gi1-2	Edit Delete				
	10	VLAN0010	Gi1-2	Edit Delete				
	100	VLAN0100	Gi1-2	Edit Delete				
	200	guset	Gi1-2	Edit Delete				
Total 7 10/pag	e 🗸 🤇 1 🔾 Go to page	1						

The message "Are you sure you want to delete the VLAN?" is displayed. In the displayed dialog box, click OK.

VLAN List	•			+ Batch Add + Add 🗇 Delete Selected						
Up to 4094	Up to 4094 entries can be added.(The default VLAN, management VLAN, native VLAN, svi Vlan, MVR vian and access VLAN cannot be deleted.)									
	VLAN ID \$	Description	Port	Action						
	1	VLAN0001	Gi1-24,Te25-28	Edit Delete						
	3	VLAN0003	Gi1-2	Edit Delete						
	4	VLAN0004	Gi1-2	Edit Delete						
	5	Are you sure you want to delete the entry?	× Gi1-2	Edit Delete						
	10	Cancel	Gi1-2	Edit Delete						
D	100	VLAN0100	Gi1-2	Edit Delete						
	200	guset	Gi1-2	Edit Delete						
Total 7 10/pa	age 🗸 🤇 🚺 > Go to page	1								

The message "Delete operation succeeded." is displayed, the selected VLANs will be deleted in VLAN List.

test123_1_Auto >	NBS5200 Ø	 Delete operation succeeded. 	En	glish ∽ ⊔ Ruijie Cloud	鬷Download App	🔮 Wizard	🕞 Log Ou
VLAN List	•			+ Batch Add	+ Add	🗈 Delete Sel	lected
Up to 4094 en	ntries can be added.(The default VLAN, mana	gement VLAN, native VLAN, svi Vlan, MVR vlan and access VLAN cannot be delet	ted.)				
	VLAN ID ≑	Description	Port		Action		
	1	VLAN0001	Gi1-24,Te25-28		Edit Delete		
	5	VLAN0005	Gi1-2		Edit Delete		
	10	VLAN0010	Gi1-2		Edit Delete		
	100	VLAN0100	Gi1-2		Edit Delete		
	200	guset	Gi1-2		Edit Delete		
Total 5 10/pag	e v K 1 So to page	1					

Click Delete in the Action column.

Configuration

VLAN List	VLAN List 😑 + Batch Add + Add 🗈 Delete Selected							
Up to 4094 er	Up to 4094 entries can be added.(The default VLAN, management VLAN, native VLAN, svi Vlan, MVR vlan and access VLAN cannot be deleted.)							
	VLAN ID \$	Description	Port	Action				
	1	VLAN0001	Gi1-24,Te25-28	Edit Delete				
D	5	VLAN0005	Gi1-2	Edit Delete				
	10	VLAN0010	Gi1-2	Edit Delete				
	100	VLAN0100	Gi1-2	Edit Delete				
	200	guset	Gi1-2	Edit Delete				
Total 5 10/pag	Total 5 10/page							

The message "Delete operation succeeded." is displayed, the selected VLANs will be deleted in VLAN List.

VLAN List	9		+ Batch Add + Add Delete Selected	
Up to 4094 en	tries can be added.(The default VLAN, mana	agement VLAN, native VLAN, svi VIan, MVR vlan and access VLAN cannot be deleted.)		
	VLAN ID \$	Description	Port	Action
	1	VLAN0001	Gi1-24,Te25-28	Edit Delete
	5	VLAN0005	Gi1-2	Edit Delete
	10	VLAN0010	Gi1-2	Edit Delete
	100	. Are you sure you want to delete the entry? \times	Gi1-2	Edit Delete
	200	Cancel	Gi1-2	Edit Delete
Total 5 10/pag	e 🗸 🚺 🔂 Go to page	1		

The message "Delete operation succeeded." is displayed, the selected VLAN will be deleted in VLAN List.

test123_1_Auto >	NBS5200 ∅	Delete operation succeeded.	Engl	ish ~ Ruijie Cloud 設Download App 🛛 Ə Wizard 🕞 Log Ou
VLAN List	•			+ Batch Add + Add Delete Selected
Up to 4094 e	entries can be added.(The default VLAN, manage	ement VLAN, native VLAN, svi Vlan, MVR vlan and access VLAN cannot be de	eleted.)	
	VLAN ID \$	Description	Port	Action
	1	VLAN0001	Gi1-24,Te25-28	Edit Delete
	10	VLAN0010	Gi1-2	Edit Delete
	100	VLAN0100	Gi1-2	Edit Delete
	200	guset	Gi1-2	Edit Delete
Total 4 10/pa	ge 🗸 🤇 1 💛 Go to page	1		

Editing a VLAN

Click Edit in the Action column. In the displayed dialog box, edit the VLAN description, and click OK.

Reyee Cookbook

VLAN List						+ Batch Add + Add Delete Selected
Up to 4094 entries c	can be added.(The default VLAN, ma	Edit			×	
D	VLAN ID ¢	• VLAN ID:	100	Range: 1-4094		Action
	3	Description:	Staff	Max: 32 characters.	-28	Edit Delete
G	10					Edit Delete
D	100			Cancel		Edit Delete
	200		guset		Gi1-2	Edit Delete
Total 4 10/page 🕤	Go to page	1				

The message "Edit operation succeeded." is displayed

test123_1_Auto > NBS5200 •		Edit operation succeeded.	Eng	Jlish ~ 🛆 Ruijie Cloud 🏼 闇Download App 🔮 Wizard 🕞 Log Ou
VLAN List	•			+ Batch Add + Add Delete Selected
Up to 4094 e	ntries can be added.(The default VLAN, manager	ment VLAN, native VLAN, svi Vlan, MVR vlan and access VLAN cannot be dele	ted.)	
	VLAN ID 💠	Description	Port	Action
	1	VLAN0001	Gi1-24, Te25-28	Edit Delete
	10	VLAN0010	Gi1-2	Edit Delete
	100	Staff	Gi1-2	Edit Delete
	200	guset	Gi1-2	Edit Delete
Total 4 10/pag	ge 🔍 < 🚹 🗦 Go to page 🗍			

4.3.1.2 Port List

The **Port List** area allows you to configure the relationships between ports and VLANs, you can configure ports in batches or a single port.

Improper configuration of port VLANs may lead to failure in accessing the eWeb management system. Exercise caution during the configuration.

In **Access Port** mode, if an access VLAN is configured, only packets tagged with the corresponding access VLAN ID are permitted. Untagged packets are automatically tagged with this VLAN ID.

In **Trunk Port** mode, if a native VLAN is configured, untagged packets are automatically tagged with the corresponding native VLAN ID. Generally, the native VLAN is included in a permitted VLAN range. Otherwise, data may be blocked.

Batch editing ports

Click **Batch Edit**. In the displayed dialog box, select a port mode, select the required port, set the native VLAN or access VLAN, and click **OK**.

Configuration

Total 4 10/page 🗸 🤇 1 🗦 Go to pag	Batch Edit		×	
Port List	Port Mode: Trunk Port			🖉 Batch Edit
Port	* Native VLAN: 10	~	Permit VLAN	Action
Gil	Permitted VLAN: 1-4094		1-4094	Edit
GI2	* Select Port:		1-4094	Edit
Gi3	Available 💼 Unavailable	Aggregate 💼 Uplink 💼 Copper	Fiber	Edit
Gi4	1 3 5 7 9 11 13	15 17 19 21 23 17 19 21 23	-	Edit
GI5			-	Edit
Gi6	2 4 6 8 10 12 14	16 18 20 22 24 18 20 22 24 2	Perselect	Edit
G17	The can call and a day to select of	Select All Inverse		Edit
Gi8		Cancel	к	Edit
Gi9	ACCESS	1		Edit
GI10	ACCESS	1		Edit
Total 28 10/page < 1 2 3 >	Go to page 1			

Select ports on the port panel and set the port mode to Access Port or Trunk Port. In Trunk Port mode, configure permitted VLAN ranges (separated by commas ","), set VLAN IDs for the ports, and click OK. The port list and VLAN list will be updated correspondingly.

The message "Operation succeeded." is displayed.

test123_1_Auto > NBS5200 O		 Operation succeeded. 		English 🗸 🛆 Ruijie Cloud	龖Download App
200		guset	Gi1-3,Gi5,Gi7		Edit Delete
Total 4 10/page V 1	Go to page 1				
Port List 🧧					🖉 Batch Edit
Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
GI1	TRUNK		1	1-4094	Edit
GI2	TRUNK		1	1-4094	Edit
Gi3	TRUNK		10	1-4094	Edit
Gi4	ACCESS	1.			Edit
Gi5	TRUNK		10	1-4094	Edit
Gi6	ACCESS	1.			Edit
GI7	TRUNK	-	10	1-4094	Edit
Gi8	ACCESS	1			Edit
GI9	ACCESS	1			Edit
Gi10	ACCESS	1			Edit
Total 28 10/page 🗸 🚺	2 3 > Go to page 1				

Editing a single port

Click Edit in the Action column, configure the port mode and VLAN, and click OK.

Configuration

Total 4 10/page - 1 S Go to page	Port:Gi4		×		
Port List	Port Mode:	Access Port	~		2. Batch Edit
Port	* Access VLAN:	100	~	Permit VLAN	Action
Gi1			_	1~4094	Edit
Gi2			Cancel OK	1~4094	Edit
Gi3	TRUNK		10	1-4094	Edit
Gi4	ACCESS	Ť			
GIS	TRUNK		10	1-4094	Edit
Gi6	ACCESS	.C.			Edit
GI7	TRUNK		10	1-4094	Edit
Gi8	ACCESS	1.			Edit
619	ACCESS	<u>d</u> .			Edit
GHO	ACCESS	4			Edit
Total 28 10/page - 1 2 3 ->	Go to page 1				4

The message "Operation succeeded." is displayed.

test123_1_Auto > NBS5200 (Operation succeeded.		English ~ Ruijie Cloud	鑁Download App 合 Wizard 🕞 Log O
	200	guset	Gi1-3,Gi5,Gi7		Edit Delete
Total 4 10/page V	1 > Go to page 1				
Port List					🖉 Batch Edit
Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
Gi1	TRUNK		1	1-4094	Edit
Gi2	TRUNK		1	1-4094	Edit
Gi3	TRUNK		10	1-4094	Edit
G14	ACCESS	100			Edit
GI5	TRUNK		10	1-4094	Edit
Gi6	ACCESS	1			Edit
GI7	TRUNK	-	10	1-4094	Edit
Gi8	ACCESS	1			Edit
Gi9	ACCESS	1	-	-	Edit
Gi10	ACCESS	Ť.		-	Edit
Total 28 10/page \vee	< 1 2 3 > Go to page 1				

4.3.2 Ports

4.3.2.1 Basic Settings

1.1 Basic Settings

The Basic Settings module allows you to configure the port status, duplex mode, flow control.

Reyee Cookbook

est123 > NBS3100 0					English ~ 🛆 Ruijie Cloud	畿Download App 合 Wizard 급 Log Or	
Basic Settings Physical Settings							
Basic Settings Configure port status, duplex mode, rate and flow control.							
Port List						🖉 Batch Edit	
Port	Status	Duplex M	ode/Rate Actual Status	Flow C	ontrol Actual Status	Action	
GI1	Disable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
GI2	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi3	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi4	Disable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
G15	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi6	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
GI7	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi8	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
G19	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi10	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
	Asic Setting: Basic Setting: Configure port status, duplex me Port List GI	Reside Setting: Physical Setting: Configure port status, duple, late and flow control. Port List Port Gilt Gali Gilt Gi	Reside Settings Duplex Markowski Reside Settings Duplex Markowski Port List Duplex Markowski April Duplex Markowski Gil Disable Auto/Auto Gil Enable Auto/Auto	Physical Setting: Exist Setting: Exist Setting: Configure port status, duplex	tasic Settings Physical Settings Configure port status, duplex use and store control. Port List Port Status Database Setting Config Status	in California Califori	

Configuration items for ports with different attributes (1000M port, 10G port, and fiber port) vary. During batch configuration, only the common configuration items are configurable.

Click Batch Edit. In the displayed dialog box, select the target port, set the port status, speed, and mode, and click OK.

East Settings Physical Settings						
Configure pret status, dagtes ter	Batch	n Edit		× .		
Port List		Status Enable				
Part	Battan	Kate: Auto		these O	anna Annai Dana	Action
160	Disamin	Work Mode: Auto		•	Dubie	10.
cia:	Iname	* Select Port			Diame	tar.
(69	Date de .	uniter 🛱 transferre 🛛 🛱	Appropries 🏦 Spink 🏥 Capper 🔛	Real Prove	Dividite	Tan (
Ci4	Duzie				Date	Lot
GS	Date				Chiatae S	1.01
- 66	Trans. Note:	You can click and drug to which one	or more ports. Select All Inverse De	select	Chatte	The contract of the contract o
ar	tratte		Court		Dutte	1.01
64	Tratte		Carter		Disable	101
68	Briathy	AutoMate	Liver down / Driene wry	Decidite	Cheathe	ton.
i dina	Ender	AutoRate	University Colonaum	Disable	Chatte	and the

Click **Edit** in the **Action** column. In the displayed dialog box, select the target port, set the port status, speed, and mode, and click **OK**.

Basic Settings Physical Settings									
Basic Settings Configure port status, duplex me	ode, rate and flow con	Port:Gi1				×			
Port List		Status:	Disable						🖉 Batch Edit
Port	Status	Rate:	1000M				Flov	v Control	Action
		Duplex Mode:	Full-Duplex				atus	Actual Status	
Gi1	Enable	Flow Control:	Enable				e	Disable	Edit
Gi2	Enable						e	Disable	Edit
Gi3	Enable				Cancel	ОК	e	Disable	Edit
Gi4	Enable	A	uto/Auto	Unknown/Ur	known	Disab	le	Disable	Edit

The message "Delete operation succeeded." is displayed.

test123_1_Auto > NBS5200 0		 Operation success 	ded.	English ~ △Ruijie Cloud 跛Download A			
Basic Settings Physical Setti	ings						
Configure port status, dup	lex mode, rate and flow control.						
Port List						🖉 Batch Edit	
Port	Bost Statur		Duplex Mode/Rate		Flow Control		
		Config Status	Actual Status	Config Status	Actual Status		
Gi1	Disable	Full-Duplex/1000M	Unknown/Unknown	Enable	Disable	Edit	
GI2	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
GI3	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	
Gi4	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit	

1.2 Physical Settings

Configure physical attribute. (The fiber port does not support EEE. The aggregate port containing combo ports which cannot work as a combo port.)

MTU Configuration

The page of NBS3100/3200 series switches is as below:

Reyee Cookbook

Ruíjie IIRcyc	c te	est123 > NBS3100 0				English ~	C Ruijie Cloud	顓Download App	😫 Wizard	🕞 Log O
$\frac{\partial}{\partial \delta}$ Home	ii C	Basic Settings Physical Settings	but of the films and does not support FCC	The second se						
딸 Monitor · · · · · · · · · · · · · · · · · · ·		MTU	ubute, (The num port does not support co	The aggregate por containing control ports cannot	nun as a cumou porci					
Basic Settings Aggregate Ports Port Mirroring Rate Limiting		*MTU: 150	Save	Range: 64-9216					/ Ratel	h Edit
PoE MGMT IP	1	Port		EEE	Attribute	Description		Action		
L2 Multicast		Gi1		Disable	Copper			Edit		
Security		GI2		Disable	Copper			Edit		
🗄 Advanced		Gi3		Disable	Copper			Edit		
@ Diagnostics		G14		Disable	Copper			Edit		
😤 System		GI5		Disable	Copper			Edit		
		Gi6		Disable	Copper			Edit		
		Gi7		Disable	Copper			Edit		
Collapse		Gi8		Disable	Copper			Edit		

The series of NBS3100/3200 supports MTU global configuration, but cannot configure it based on specified port.

Enter the MTU value and then click "Save" the value range of MTU is within 64-9216.

Basic Settings	Physical Settings
<i>i</i> Physical Configure	ttings hysical attribute. (The fiber port does not support EEE. The aggregate port containing combo ports cannot work as a combo port.)
мти	
*	TU: 1500 Range: 64-9216
	Save

NBS5100/5200 supports MTU configuration based on single or multiple ports

Configure MTU value for a single port:

Click Edit in the Action column, and enter the MTU value in the dialog box, then save the configure by clicking OK.

Basic Settings Physical Settings						
Physical Settings Configure physical attribute. (The fiber port does not a	Port:Gi1			×		
Port List	EEE:	Disable				& Batch Edit
Port	Attribute:	Fiber			MTU	Action
Gi1	Description:				1500	
Gi2	* MTU:	2000	Range: 64-9216		1500	Edit
Gi3					1500	Edit
Gi4			Cancel OK		1500	Edit
GIS	Disable	Fiber			1500	Edit
Gi6	Disable	Fiber			1500	Edit

The displaying of "Operation Succeeded" indicate the action of modifying MTU value for the port have been succeed

Reyee Cookbook

test123_1_Auto >	NBS5200 0		Operation succeeded.		English 🗸 🛆 Ruijie Cloud	識Download App
Basic Settings	Physical Settings					
<i>Physical</i> Configure	Settings physical attribute. (The fiber port does not	support EEE. The aggregate	port containing combo ports cannot work as	a combo port.)		
Port List						🖉 Batch Edit
	Port	EEE	Attribute	Description	МТU	Action
	Gi1	Disable	Fiber		2000	Edit
	GI2	Disable	Fiber		1500	Edit
	GI3	Disable	Fiber		1500	Edit
	Gi4	Disable	Fiber		1500	Edit
	GI5	Disable	Fiber		1500	Edit
	Gi6	Disable	Fiber		1500	Edit

Configure NTU value for multiple ports:

Click Batch Edit to choose the port, and then enter the MTU value and click **OK** to save the configuration.

Basic Settings Physical Settings					
Physical Settings Configure physical attribute. (The fiber port does not s	Batch Edit		×		
Port List	EEE:	Disable ~			🖉 Batch Edit
Port	Attribute:	Fiber ~		МТО	Action
GI1	Description:			2000	Edit
Gi2	* MTU:	9216	Range: 64-9216	1500	Edit
GB	* Select Port:			1500	Edit
Gi4	Available 💼 Unavai	ilable 👘 Aggregate 🖬	Uplink 💼 Copper 🔝 Fiber	1500	Edit
GIS	1 3 5 7 9	11 13 15 17 19 21 23 1	7 19 21 23	1500	Edit
Giő	2 4 6 8 10	12 14 16 18 20 22 24 1	3 20 22 24 25 26	1500	Edit
Gi7	Note: You can click and dr	ag to select one or more ports.	Select All Inverse Deselect	1600	Edit
GI8			Cancel OK	1500	Edit
Gi9				1500	Edit
Gi10	Disable	Fiber		1500	Edit

When displaying "Operation Succeeded" means the action of modifying the MTU value to the port have been succeed.

test123_1_Auto >	NBS5200 Ø		Operation succeeded.		English ~	Cloud	鼹Download App	🔮 Wizard	🕒 Log Out
Basic Settings	Physical Settings								
Onfigure	Settings physical attribute. (The fiber port does no	t support EEE. The aggregate	port containing combo ports cannot work as a combo p	ort.)					
Port List								🖉 Bato	:h Edit
	Port	EEE	Attribute	Description	MTU		Ac	tion	
	GI1	Disable	Fiber		2000		E	dit	
	GI2	Disable	Fiber		1500		E	dit	
	Gi3	Disable	Fiber		9216		E	dit	
	Gi4	Disable	Fiber		1500		E	dit	
	GI5	Disable	Fiber		9216		E	dit	

Batch editing ports

Click **Batch Edit**. In the displayed dialog box, select the target port, and set the EEE, port mode, and port description, MTU value, and click **OK**.

Ruijie	test123_1_Auto > NBS5200		Enalish ~		
∉® Home		Batch Edit	×		
∯ VLAN	Basic Settings Physical S	EEE: Disable ~			
Monitor	Configure physical attri	Attribute: Fiber ~			
Ports ^	Port List	Description: Connect_to_PC			🖉 Batch Edit
Basic Settings	Port	* MTU: 1500 Range: 64-9216		MTU	Action
Aggregate Ports	Gi1			2000	Edit
Port Mirroring	Gi2	* Select Port:	Fiber	1500	Edit
MGMT IP	Gi3	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23		9216	Edit
L2 Multicast	Gi4		25 26	1500	Edit
L3 Interfaces	Gi5	Note: You can click and drag to select one or more ports. Select All Inverse	2.5 20 Deselect	9216	Edit
⊘ Security ~	Gi6			1500	Edit
음 Advanced 👋	Gi7	Cancel	OK	1600	Edit
«Collapse	Gi8	Dicable Filter		1500	Felit

The message "Operation succeeded." is displayed.

Rujje Rcycc	test123_1_Auto > NBS5200 0	Operation succeeded.	English 🗸 🛛 🛆 Ruijie Cloud	鬷Download App
중 Home 중 VLAN	Basic Settings Physical Settings			
🕾 Monitor 🗸 🗸	<i>Physical Settings</i> Configure physical attribute. (The fiber port doe	is not support EEE. The aggregate port containing combo por	ts cannot work as a combo port.)	
Ports ^	Port List			🖉 Batch Edit
Basic Settings	Port EEE	Attribute De	escription MTU	Action
Aggregate Ports	Gi1 Disable	Fiber	2000	Edit
Port Mirroring Rate Limiting	Gi2 Disable	Fiber Con	nect_to_PC 1500	Edit
MGMT IP	Gi3 Disable	Fiber	9216	Edit
 L2 Multicast 	Gi4 Disable	Fiber Con	nect_to_PC 1500	Edit
L3 Interfaces	Gi5 Disable	Fiber	9216	Edit
⊘ Security ~	Gi6 Disable	Fiber Con	nect_to_PC 1500	Edit
🗄 Advanced 🛛 👋	Gi7 Disable	Fiber	1600	Edit
«Collapse	Gi8 Disable	Fiber	1500	Edit

Copper ports and fiber ports cannot be simultaneously configured during batch configuration.

Fiber ports do not support EEE configuration.

Editing a single port

Click **Edit** in the **Action** column. In the displayed dialog box, set the EEE, port mode, and port description, MTU value, and click **OK**.

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Rujje	test123_1_Auto > NBS5200 0					English ~	Auijie Cloud	證Download App	⇔ Wizard [∃Log O
a ^g a Home	Basic Settings Physical S									
ge VLAN		Port:Gi1				×				
👾 Monitor 🛛 🗸	Configure physical attri						port.)			
-	Port List	EEE:	Disable						A Batch	Edit
⊕ Ports ^	Fort List	Attribute:	Fiber						s_ batch	
Basic Settings	Port						MTU		Action	
Aggregate Ports	Gi1	Description:	Connect_to_SW1				2000		Edit	
Port Mirroring	700	* MTU:	2000		Range: 64-9216		1500		Ealit	
Rate Limiting	GIZ						1500			
MGMT IP	Gi3				Cancel	OK	9216		Edit	
L2 Multicast	Gi4	Diadic		1.12.21			1500		Edit	
L3 Interfaces	Gi5	Disable		Fiber			9216		Edit	
⊘ Security ~	Gi6	Disable		Fiber	Connect_to_PC		1500		Edit	
台 Advanced 🗠	Gi7	Disable		Fiber			1600		Edit	
- «Collapse	GIR	Dicable		Fiher			1500		Edit	

The message "Operation succeeded." is displayed.

Rujje I Rcycc	test123_1_Auto > NBS5200 0	o 0	peration succeeded.	English	∼ 🛆 Ruijie Cloud 🛔	Download App 🛭 & Wizard 🕒	}Log C	
윤 Home	Basic Settings Physical Settings							
문 VLAN	 Physical Settings Configure physical attribute. (The fiber port does not support EEE. The aggregate port containing combo ports cannot work as a combo port.) 							
Ports ^	Port List					🖉 Batch E	dit	
Basic Settings	Port	EEE	Attribute	Description	MTU	Action		
Aggregate Ports	Gi1	Disable	Fiber	Connect_to_SW1	2000	Edit		
Port Mirroring Rate Limiting	Gi2	Disable	Fiber	Connect_to_PC	1500	Edit		
MGMT IP	Gi3	Disable	Fiber		9216	Edit		
L2 Multicast	Gi4	Disable	Fiber	Connect_to_PC	1500	Edit		
L3 Interfaces	Gi5	Disable	Fiber		9216	Edit		
⊘ Security ~	Gi6	Disable	Fiber	Connect_to_PC	1500	Edit		
🗄 Advanced 🛛 🗠	Gi7	Disable	Fiber		1600	Edit		
<pre></pre>	Gi8	Disable	Fiber		1500	Edit		

Port mode switchover

Only the SFP combo ports support port mode switchover.

Click Edit in the Action column. In the displayed dialog box, set the port mode to Fiber or Copper (by default), and click OK.
Reyee Cookbook

Ruíjie Reyce	test123_1_Auto > NBS5200 @	۹. I			English ~	C Ruijie Cloud	蠶Download App 合 Wizard 日 Log C
8°8 Home	Port	EEE	Attribute	Description		MTU	Action
^g ₽ VLAN	Gi11	Port:Gi19			×	1500	Edit
🗑 Monitor 🗸 🗸	Gi12	EEE-				1500	Edit
Ports ^	Gi13	LLL.				1500	Edit
Basic Settings	Gi14	Attribute:	Fiber			1500	Edit
Aggregate Ports	Gi15	Description:	Combo_change_to_Fiber			1500	Edit
Port Mirroring	Gi16	* MTU:	1500	Range: 64-9216		1500	Edit
MGMT IP	Gi17			Cancel	OK	1500	Edit
L2 Multicast	Gi18 t			Cancer	OK	1500	Edit
L3 Interfaces	Gi19	Disable	Copper			1500	Edit
⊘ Security ~	Gi20	Disable	Copper			1500	Edit
🖻 Advanced 🛛 👻	Total 28 10/page 🗸	1 2 3 >	Go to page 2				
- «Collapse							

The message "Operation succeeded." is displayed.

Ruíjie I & Rcycc	test123_1_Auto > NBS5200 0		Operation succeeded.	English ~	合 Ruijie Cloud	o 🏘 Wizard 🕞 Log O
윤 Home	Port	EEE	Attribute	Description	MTU	Action
≝ [₽] VLAN	Gi11	Disable	Fiber		1500	Edit
😤 Monitor 🛛 🗸	Gi12	Disable	Fiber		1500	Edit
⊗ Ports 🔷	Gi13	Disable	Fiber		1500	Edit
Basic Settings	Gi14	Disable	Fiber		1500	Edit
Aggregate Ports	Gi15	Disable	Fiber		1500	Edit
Port Mirroring Rate Limiting	Gi16	Disable	Fiber		1500	Edit
MGMT IP	Gi17	Disable	Fiber		1500	Edit
 L2 Multicast 	Gi18 t	Disable	Copper		1500	Edit
L3 Interfaces	Gi19	Disable	Fiber	Combo_change_to_Fiber	1500	Edit
⊘ Security ~	Gi20	Disable	Copper		1500	Edit
Advanced ×	Total 28 10/page > < 1	2 3	> Go to page 2			

4.3.2.2 Aggregate Ports

The Aggregate Ports module includes Global Settings and Aggregate Port Settings.

Reyee Cookbook

Ruíjie #Rcycc	test123_1_Auto > NBS5200 Ø English < _ @Ruijie Cloud 酸Download App & Wizard _ H	Log Oi
දී _ව Home ਜ਼ਾ VLAN ፼ Monitor ∽	Global Settings Load Balance Src & Dest MAC	
Ports ^ Basic Settings	Save	
Port Mirroring Rate Limiting	Aggregate Port Settings Up to 16 aggregate ports can be added. An aggregate port contains up to 8 member ports.	
MGMT IP	No Data	
 L3 Interfaces Security × 	* Aggregate Port: Range: 1–16 * Select Member Ports	
운 Advanced 🛛 👋	Available Unavailable Aggregate 🖬 Uplink 💼 Copper 📷 Fiber	

1.1 Global Settings

Select a value from the Load Balance Algorithm drop-down list box, and click Save.

Ruijie Rcycc	test123_1_Auto > NBS520	00 🔍		English ~	△ Ruijie Cloud	鍵Download App	🖨 Wizard	🕞 Log Out
ം Home	Global Sottings							
E VLAN	Global Settings							
🕾 Monitor 🗸 🐇	Load Balance	Src & Dest MAC]					
	Algorithm:	Src MAC						
Ports ^		Src IP						
Basic Settings		Src L4 Port						
Aggregate Ports	in the second	Src Port						
Port Mirroring	Aggregate Port	Dest MAC						
Port Millioning	Up to 16 aggregate	Dest IA Port	up to 8 member ports.					
Rate Limiting		Src & Dest MAC						
MGMT IP	No Data							
L2 Multicast								

The ports supported load balance algorithms are Src MAC, Src IP, Src L4 Port, Src Port, Dest MAC, Dest IP Address, Dest L4 Port, Src & Dest MAC, Src & Dest IP Address, Src & Dest L4 Port.

1.2 Aggregate Ports Settings

Adding an aggregate port

Enter an aggregate port ID, select member ports (ports that have been added to another aggregate port cannot be selected), and click **Save**.

Ruíjie I Rcycc	test123_1_Auto > NBS5200 0	English ~	☐ Ruijie Cloud	鼹Download App	🔮 Wizard	🕞 Log (
ය Home	Save					
€ [₽] VLAN	Aggregate Port Settings					
또 Monitor	Up to 16 aggregate ports can be added. An aggregate port contains up to 8 member ports.					
Ports						
Basic Settings	No Data					
Aggregate Ports						
Port Mirroring	* Aggregate Port: 1					
Rate Limiting	* Select Member Ports					
MGMT IP	Available 💼 Unavailable					
 L2 Multicast 	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23					
L3 Interfaces						
⊘ Security ~	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28					
🗄 Advanced 🗸	Note: You can click and drag to select one or more ports. Select All Inverse Deselect					
Collapse	Save					

The message "Operation succeeded." is displayed. The port panel displays the added aggregate port.

Ruíjie I Rcycc	test123_1_Auto > NBS5200 0	Operation succeeded.	English ~	Cloud Ruijie	器Download App	🔮 Wizard	🕞 Log O
움 Home	Save						
≝ [₽] VLAN	Aggregate Port Settings						
쪂 Monitor 🗸	Up to 16 aggregate ports can be added. An aggregate	ate port contains up to 8 member ports.					
Ports ^	Select All						
Basic Settings	×						
Aggregate Ports	Ag1 Delete Selected						
Port Mirroring							
Rate Limiting	* Aggregate Port: Range: 1-16						
MGMT IP	* Select Member Ports Please select at least one me	mber port.					
 L2 Multicast 	Available 💼 Unavailable	Aggregate 🖬 Uplink 💼 Copper 🖬 Fil	iber				
L3 Interfaces	1 3 5 7 9 11 13 15 17 19	9 21 23 17 19 21 23					
⊘ Security ~							
🖻 Advanced 🛛 👋	Note: You can click and drag to select one or more	ports. Select All Inverse Desel	lect				

An aggregate port contains a maximum of eight member ports.

Batch deleting aggregate ports/Deleting a single aggregate port

In the aggregate port list, click to select aggregate ports, and click Delete Selected.

Rujje #Rcycc	test123_1_Auto > NB55200 O English ~ Ruijie Cloud 📓 Download App 🔗 Wizard 🕞 L	og (
옮 Home	Aggregate Port Settings	
음 ^면 VLAN	Up to 16 aggregate ports can be added. An aggregate port contains up to 8 member ports.	
짤 Monitor 🛛 🗸	Select All	
Ports ^	Ag1 i Delete Selected	
Basic Settings		
Aggregate Ports	* Aggregate Port: Range: 1-16	
Port Mirroring	Please enter an aggregate port number.	
Rate Limiting	Available Unavailable Aggregate T Uplink Copper Fiber	
MGMT IP		
L2 Multicast		
L3 Interfaces	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28	
⊘ Security 🗠	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	
🗄 Advanced 🗠	Save	
«Collapse		

In the displayed confirmation box, click $\ensuremath{\textbf{OK}}$.

Ruijie Rcycc	test123_1_Auto > NBS5200 0			⊡ Log C
a ⁸ a Home	Aggregate Port Settings			
se vlan	Up to 16 aggregate ports can be added. An aggregate port contains up to 8 member ports.			
🖗 Monitor 🛛 👋	Select All			
Ø Ports ^	× Ag1 Delete Selected			
Basic Settings				
Aggregate Ports	* Annrenate Port: Panner 1.16			
Port Mirroring	Are you sure you want to delete aggregate port I?			
Rate Limiting	* Select Member Ports			
MGMT IP	Available Unavailable Aggregate Uplink Copper Fiber			
L2 Multicast	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23			
L3 Interfaces	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28			
🕝 Security 👋	Note: You can click and drag to select one or more ports. Select All Inverse Deselect			
🖻 Advanced 👋	Save			
 Collapse 				

A deleted aggregate port becomes available on the port panel.

Reyee Cookbook

Ruíjie ®Rcycc	test123_1_Auto → NB55200 E	English ~	Auijie Cloud	퉳Download App	🚔 Wizard	🕞 Log (
🖧 Home	Aggregate Port Settings					
음 ^문 VLAN	Up to 16 aggregate ports can be added. An aggregate port contains up to 8 member ports.					
쪂 Monitor 🗸 🗸						
Ø Ports ^	No Data					
Basic Settings						
Aggregate Ports	* Aggregate Port: Range: 1-16					
Port Mirroring	* Select Member Ports Please select at least one member port.					
Rate Limiting	Available duravailable					
MGMT IP	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23					
L2 Multicast						
L3 Interfaces	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28					
⊘ Security ~	Note: You can click and drag to select one or more ports. Select All Inverse Deselect					
🖻 Advanced 🛛 👋	Save					
~ «Collapse						

After the aggregate port is **deleted**, its member ports are restored to the **default settings** and are **disabled**.

Ruíjie I Rcycc	test123_1_Auto > NBS5200	0			English 🗸 🛆	Ruijie Cloud 🛛 🎇 Downloa	d App 🛭 🚔 Wizard 🕞 Log O		
운 Home	Basic Settings Physica	l Settings							
딸 Monitor ~	Configure port status	Basic Settings Configure port status, duplex mode, rate and flow control.							
Ports ^	Port List						🖉 Batch Edit		
Basic Settings			Duplex !	Duplex Mode/Rate		Flow Control			
Aggregate Ports	Port	Status	Config Status	Actual Status	Config Status	Actual Status	Action		
Port Mirroring	Gi1	Disable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
Rate Limiting MGMT IP	Gi2	Disable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
L2 Multicast	Gi3	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
L3 Interfaces	Gi4	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
⊘ Security ~	Gi5	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
🖻 Advanced 🛛 👋	Gi6	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		
<pre></pre>	Gi7	Enable	Auto/Auto	Unknown/Unknown	Disable	Disable	Edit		

4.3.2.3 Port Mirroring

The **Port Mirroring** module allows you to configure port mirroring. A maximum of **four** port mirroring entries are supported.

Rujje Rcycc	test123_1_Aut	∞ > NBS5200 Ø			English ~ Ruijie Cloud _ 鬷Dor	wnload App 🛭 🖨 Wizard 🕞 Log O			
윦 Home	Port I	Mirroring							
금키 VLAN	i Descri can be Note:	Description: All packets on the source port will be copied to the destination port and you can analyze the traffic by using a protocol analyzer application. Traffic on more than one source port and be mirrored to one destination port. Note: The destination port must be different from the source port.							
쭏 Monitor 🗸	Port Mir	roring List							
Ports ^		5							
Basic Settings	#	Src Port	Dest Port	Monitor Direction	Receive Pkt from Non-Src Ports	Action			
Aggregate Ports	1					Edit Delete			
Port Mirroring	2					Edit Delete			
Rate Limiting	3					Edit Delete			
 L2 Multicast 	4				**	Edit Delete			
L3 Interfaces									
⊘ Security ~									
🗄 Advanced 🛛 👋									
~ 《Collapse									

Editing a port mirroring entry

Click **Edit** in the **Action** column. In the displayed dialog box, set the source port, destination port, and monitoring type, and click **OK**.

Rcycc	test123_1_Auto > NBS5200 (Edit	×			
_{වී} Home ඒ VLAN	Port Mirroring Description: All packet can be mirrored to one Note: The destination	Monitor Direction: Both \checkmark		alyzer application. Ti	raffic on more than o	one source port
	Port Mirroring List	Ports: * Src Port:				
Basic Settings	# Src Po	Available Dunavailable	iber	from Non-Src Por	rts	Action
Aggregate Ports	1	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23			Edi	it Delete
Port Mirroring	2				Ed	it Delete
Rate Limiting	3	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26	6		Ed	it Delete
C L2 Multicast	4	Note: You can click and drag to select one or more ports. Select All Inverse Desel * Dest Port:	lect		Ed	it Delete
L3 Interfaces	_	Available Dunavailable Tunavailable Tunavailable	iber			
⊘ Security ~		1 3 5 7 <mark>9</mark> 11 13 15 17 19 21 23 17 19 21 23				
🖻 Advanced 👋		2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26	6			
«Collapse		Desel	lect			

The message "Operation succeeded." is displayed.

Reyee Cookbook

Rujje I Rcycc	test123_1_Au	to > NBS5200 🕖	Operation succeeded.		English ~ Ruijie Cloud 뙗D	ownload App 🛭 🚖 Wizard 🕞 Log Out		
중 Home 중 VLAN 또 Monitor ~	i Port Descr can b Note:	Port Mirroring Description: All packets on the source port will be copied to the destination port and you can analyze the traffic by using a protocol analyzer application. Traffic on more than one source port can be mirrored to one destination port. Note: The destination port must be different from the source port.						
Ports ^	Port Mir	rroring List						
Basic Settings	#	Src Port	Dest Port	Monitor Direction	Receive Pkt from Non-Src Ports	Action		
Aggregate Ports	1	Gi7	Gi9	Both	Yes	Edit Delete		
Port Mirroring	2					Edit Delete		
Rate Limiting MGMT IP	3					Edit Delete		
L2 Multicast	4					Edit Delete		
L3 Interfaces								

You can select **multiple source ports** but only **one destination port** for port mirroring. Moreover, the source ports cannot contain the destination port and an **aggregate port** cannot be used as the destination port.

A maximum of four port mirroring entries can be configured. Port mirroring cannot be configured for ports that are already mirrored.

Deleting a port mirroring entry

Click Delete in the Action column. In the displayed confirmation box, click OK.

Ruíjie l : Rcycc	test123_1_A	uto > NBS5200 🛈			English ~ 🛆 Ruijie Cloud 뷇Dov	nload App 🛭 🖨 Wizard 🕞 Log				
ਨੂੰ Home ਜ਼ੁੱਸ VLAN	Port Desc can l Note	Port Mirroring Pescription: All packets on the source port will be copied to the destination port and you can analyze the traffic by using a protocol analyzer application. Traffic on more than one source port can be mirrored to one destination port. Note: The destination port must be different from the source port.								
	Port Mi	irroring List	Durb Barb	Maniána Disastina	Dessing Did form New See Deste	0. size				
Basic Settings Aggregate Ports	1	Gi7	Gi9	Both	Yes	Edit Delete				
Port Mirroring	2					Edit Delete				
MGMT IP	3			~		Edit Delete				
L2 Multicast	4					Edit Delete				
 ⊕ L3 Interfaces ⊘ Security ~ 										
🗄 Advanced 🛛 👋										
- «Collapse										

In the displayed confirmation box, click OK.

Reyee Cookbook

Ruíjie &Rcycc	test123_1_Au	nto > NBS5200 0			English ~ Ruijie Cloud _ 꿿Dowr	nload App 🛛 🛔 Wizard 🕞 Log (
ి Home లో VLAN	i Port can t Note	Mirroring ription: All packets on the source be mirrored to one destination por s: The destination port must be dif	port will be copied to the destination por t. lerent from the source port.	t and you can analyze the traffic by	using a protocol analyzer application. Traffic on	more than one source port
Ports	Port Mi	rroring List				
Basic Settings	#	Src Port	Dest Port	Monitor Direction	Receive Pkt from Non-Src Ports	Action
Aggregate Ports	1	Gi7	Are you sure you want to	\times delete the port	Yes	Edit Delete
Port Mirroring	2		mirroring?	Cancel		Edit Delete
Rate Limiting MGMT IP	3					Edit Delete
L2 Multicast	4					Edit Delete
L3 Interfaces						
⊘ Security ~						
🗄 Advanced 🛛 👋						
« Collapse						

The message "Clear operation succeeded." is displayed.

Rujje I Rcycc	test123_1_Auto > M	IBS5200 Ø	Clear operation succeed	ed.	English ~ 🛆 Ruijie Cloud 🏼 鼹Dov	vnload App 🛭 🐣 Log (
ిం Home హె VLAN	<i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i> <i>i</i>	ring : All packets on the source port wil red to one destination port. estination port must be different fr	I be copied to the destination port ar om the source port.	nd you can analyze the traffic by	using a protocol analyzer application. Traffic o	n more than one source port
딸 Monitor ~ · · · · · · · · · · · · · · · · · ·	Port Mirrorir	ng List				
Basic Settings	#	Src Port	Dest Port	Monitor Direction	Receive Pkt from Non-Src Ports	Action
Aggregate Ports	1			~		Edit Delete
Port Mirroring	2					Edit Delete
Rate Limiting	3					Edit Delete
L2 Multicast	4					Edit Delete
L3 Interfaces						
🛇 Security 👋						
🗄 Advanced 🗠						
Collapse						

4.3.2.4 Rate Limiting

The Rate Limiting module allows you to configure the port rate limit.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5200 0		English 🗸 🛆 Ruijie O	oud _ 蠶Download App _ 会 Wizard [금 Log O
😤 Home	Port List			& Batch Edit
≝ [₽] VLAN				
쭢 Monitor 🗸	Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
Ports ^		No Data		
Basic Settings	Total 0 10/page \checkmark 1 \Rightarrow Go to page 1			
Aggregate Ports				
Port Mirroring				
Rate Limiting				
MGMT IP				
L2 Multicast				
L3 Interfaces				
⊘ Security ~				
🖻 Advanced 🛛 👋				
~ «Collanse				

Batch editing the rate limit of ports/Editing the rate limit of a single port

Click Batch Edit. In the displayed dialog box, select ports, set the Rx speed or the Tx speed, and click OK.

Ruijie Rcycc	test123_1_Auto > NBS5200 @		
ి Home క్రి VLAN	Port List	Batch Edit	∠ Batch Edit © Delete Selected
🐑 Monitor 👋	-	Rx Rate: 10000	Action Range: 16-1000000kbps
Ports ^ Basic Settings	Total 0 10/page 🗸	Tx Rate: 10000	Range: 16-1000000kbps
Aggregate Ports		* Select Port:	Uplink 💼 Copper 📷 Fiber
Rate Limiting		1 3 5 7 9 11 13 15 17 19 21 23	17 19 21 23
MGMT IP		2 4 6 8 10 12 14 16 18 20 22 24	18 20 22 24 25 26
L3 Interfaces		Note: You can click and drag to select one or more ports.	Select All Inverse Deselect
 ⊘ Security ✓ Advanced 			Cancel
«Collapse			

The message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Ruíjie #Rcycc	test123_1_Auto >	NBS5200 🕖	Operation succeeded.	English 🗸 🛆 Ruijie (Cloud 鍵Download App _ 会 Wizard _ ြ-Log Out
ిం Home హా VLAN	Port List				& Batch Edit
문 Monitor 😪		Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
@ Ports		Gi5	10000	10000	Edit Delete
Basic Settings		Gi7	10000	10000	Edit Delete
Aggregate Ports Port Mirroring	Total 2 10/pag	ge 🗸 🤇 1 🗦 Go	to page 1		
Rate Limiting					

Click Edit in the Action column. In the displayed dialog box, set the Rx speed or the Tx speed, and click OK.

iluíjie laRcycc		0				
😤 Home	Port List	_				/ Batch Edit
SF VLAN	Porclas	Port:Gi5			×	
🚇 Monitor 👋						Action
🔞 Ports 🔿		Rx Rate:	2000	Range	: 16-1000000kbps	Edit Delete
Basic Settings		Tx Rate:	2000	Range	: 16-1000000kbps	Edit Delete
Aggregate Ports	Total 2 10/page ~					
Port Mirroring				Cancel	ОК	
Rate Limiting						
MGMT IP						
L2 Multicast						
L3 Interfaces						
⊘ Security ~						
🖻 Advanced 👋						
~ «Collapse						

The message "Operation succeeded." is displayed, and the port list is updated.

Ruijie #Rcycc	test123_1_Auto	> NBS5200 O	Operation succeeded.	English 🗸 🛆 Ruijie	e Cloud 🏼 웹 Download App 🏾 ♠ Wizard 🕞 Log Ou
윤 Home	Port List				& Batch Edit 📋 Delete Selected
≝ [₽] VLAN	1				
문 Monitor 🗸		Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
@ Ports		Gi5	2000	2000	Edit Delete
Basic Settings		Gi7	10000	10000	Edit Delete
Aggregate Ports	Total 2 10/p	age 🗸 🤇 🚺 🗦 Go	to page 1		
Port Mirroring					
Rate Limiting					

You must set the Rx speed or the Tx speed. If the Rx speed and the Tx speed are not set, the port rate is not limited.

Reyee Cookbook

Ruíjie Rcycc	test123_1_Auto > NB55200 0	L.	English ~	△Ruijie Cloud 闘Download App 会Wizard 已Log O
a Home	Port List			2 Batch Edit
SP VLAN	1.0.0	Batch Edit	×	
🖉 Monitor 🛛 👋				Action
Ports ^		A blank value indicates no limit.	Range: 16-1000000kbps	
Rasic Settings	Total 0 10/page V	Tx Rate: A blank value indicates no limit.	Range: 16-1000000kbps	
Aggregate Ports		* Select Port:		
Port Mirroring		Available 💼 Unavailable	Uplink 💼 Copper 🔝 Fiber	
Rate Limiting		1 3 5 7 9 11 13 15 17 19 21 23	17 19 21 23	
MGMT IP				
L2 Multicast		2 4 6 8 10 12 14 16 18 20 22 24	18 20 22 24 25 26	
L3 Interfaces		Note: You can click and drag to select one or more ports.	Select All Inverse Deselect	
🖓 Security			Cancel	
- Stating				
Advanced 🗸 🗸				
- (Collanse				

Rujje	test123_1_Auto >	NBS5200 🔮	Operation succeeded.	English 🗸 🛆 Ruijie	e Cloud _ 鼹 Download App _ 会 Wizard 🕞 Log Out
윰 Home	Port List				& Batch Edit
≝ [©] VLAN					
쪂 Monitor 🗸		Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
֎ Ports ^		Gi11	No Limit	No Limit	Edit Delete
Basic Settings	Total 1 10/pag	je 🗸 🤇 1 🗦 G	o to page 1		
Aggregate Ports					
Port Mirroring					
Rate Limiting					

Batch deleting the rate limit of ports/Deleting the rate limit of a single port

Rujje	test123_1_Auto > NB	55200 🕖		English 🗸 🛆 Ruiji	e Cloud 🏼 ગ Download App 🔮 Wizard 🕞 Log Or
중 Home	Port List				2 Batch Edit
Monitor		Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
Porte		Gi5	2000	2000	Edit Delete
Basic Settings		Gi7	10000	10000	Edit Delete
Aggregate Ports		Gi9	10000	10000	Edit Delete
Port Mirroring Rate Limiting	Total 3 10/page	v (1)	Go to page 1		
MGMT IP					
L3 Interfaces					
⊘ Security ~					
🗄 Advanced 🛛 👋					
 Collapse 					

Select multiple entries in Port List and click Delete Selected.

In the displayed confirmation box, click $\ensuremath{\text{OK}}$.

Reyee Cookbook

Ruijie Rcycc	test123_1_Auto > NBS52	00 0		English 🗸 🛆 Ruiji	e Cloud 國Download App - 会 Wizard - 금 Log C
s ² a Home	Port List				& Batch Edit Delete Selected
≝ ^g VLAN		David	Du Data (labora)	To Data (Islam)	Anton
🖳 Monitor	-	Port	KX Kate (KDps)	TX Kate (kops)	Action
		Gi5	2000	2000	Edit Delete
Basic Settings		Gi7	10000	10000	Edit Delete
Aggregate Ports		Gi9	Are you give you want to delete the entry?	× 10000	Edit Delete
Port Mirroring	Total 3 10/page	6 1 5 Go	Cancel	ĸ	
Rate Limiting					
MGMT IP					
L2 Multicast					
L3 Interfaces					
⊘ Security ~					
🗄 Advanced 👋					
- «Collapse					

The message "Delete operation succeeded." is displayed, and the port list is updated.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0	Delete operation succeeded.	English 🗸 🛆 Ruijie C	loud 鼹Download App _ hor Wizard [Log O
Rome	Port List			र्श Batch Edit
음 ^묘 VLAN	FOILES			E Derer Selected
倒 Monitor 🗸 🗸	Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
@ Ports	Gi9	10000	10000	Edit Delete
Basic Settings	Total 1 10/page \sim 1 $>$ Go t	to page 1		
Aggregate Ports				
Port Mirroring				
Rate Limiting				
MGMT IP				
L2 Multicast				
L3 Interfaces				
⊘ Security ~				
🖻 Advanced 🛛 👋				
- «Collapse				

Click **Delete** in the **Action** column.

Reyee Cookbook

Rujje #Rcycc	test123_1_Auto > NBS5200 Ø		English ~ 🛛 Ruijie (Cloud _ 論Download App _ 会 Wizard [금 Log Or
& Home 중 [₽] VLAN	Port List			2 Batch Edit
🕾 Monitor 🗸	Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
⊕ Ports ^	Gi9	10000	10000	Edit Delete
Basic Settings	Total 1 10/page 🗸 🚺	Go to page 1		
Aggregate Ports				
Port Mirroring				
Rate Limiting				
MGMT IP				
L2 Multicast				
L3 Interfaces				
⊘ Security ~				
🖻 Advanced 🛛 👋				
~ 《Collapse				

In the displayed confirmation box, click $\ensuremath{\text{OK}}$.

Ruíjie	test123_1_Auto > N	BS5200 🛛		English ~ 🛆 Ruiji	e Cloud _ 鍵Download App _ 会 Wizard _ ြ-Log C
දී Home දු? VLAN	Port List				2, Batch Edit 🗇 Delete Selected
🗑 Monitor 👋		Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
Ports		Gi9	10000	10000	Edit Delete
Basic Settings	Total 1 10/page	🤟 X 🚹 🤇 Go	to page 1		
Aggregate Ports Port Mirroring			Are you sure you want to delete the entry? Consol		
Rate Limiting			Calcel		
MGMT IP					
L2 Multicast					
U3 Interfaces					
⊘ Security ~					
合 Advanced 👋					
Collapse					

The message "Delete operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Ruíjie #Rcycc	test123_1_Auto > NBS5200 0	Delete operation succeeded.	English ~ 🛆 Ruijie	Cloud _ 蠶Download App _ 会 Wizard [] Log C
යී Home	Port List			& Batch Edit 🗇 Delete Selected
≝ [≞] VLAN	A			
쩦 Monitor 🗸	Port	Rx Rate (kbps)	Tx Rate (kbps)	Action
		No Data		
Basic Settings	Total 0 10/page 🗸 🚺 👌 🔿	Go to page 1		
Aggregate Ports				
Port Mirroring				
Rate Limiting				
MGMT IP				
L2 Multicast				
L3 Interfaces				
\odot Security \sim				
🖻 Advanced 🛛 👋				
Collapse				

4.3.2.5 PoE

The **PoE** module displays the PoE overview and allows you to specify PoE settings. The **PoE** module is available only for devices that support the PoE function.

Ruíjie l [®] Rcycc	test123 > NB53100 🕑		English ~ 🛛 Ruijie C	loud Download App @ Wizard 급 Log C
중 Home 승 ^ም VLAN	PoE Overview			
፼ Monitor ~	Total Transmit Power <mark>370</mark> w	Used Transmit Power <mark>O</mark> w	Reserved Transmit Power Ow	Free Transmit Power 370w
Basic Settings Aggregate Ports	Peak Transmit Power Ow	Powered Ports 0		
Port Mirroring Rate Limiting	PoE Settings			
PoE	Transmit Power Energy Saving			
MGMT IP	Mode:			
 L2 Multicast 	* Reserved Transmit 0	Range: 0-50%		
⊘ Security ~	Power:			
🗄 Advanced 🛛 👋	Save			

1.1 PoE Overview

The **PoE Overview** area displays the PoE information of the entire device.

Overview			
Total Transmit Power 370w	Used Transmit Power <mark>0</mark> w	Reserved Transmit Power O w	Free Transmit Power 370w
Peak Transmit Power 0 w	Powered Ports 0		

1.2 PoE settings

Select the power mode, and click **Save**. Reserved power can be configured in power saving mode to prevent PoE flapping.

PoE Settings		
Transmit Power	Energy Saving \lor	
Mode:		
* Reserved Transmit	10	Range: 0-50%
Power:		
	Save	

1.3 Port List

Port List displays the details of the POE ports.

Port L	ist						© Refresh	🖉 Batch Edit
	Port	PoE Status	Transmit Power Status	Priority	Current Transmit Power (W)	Non-Standard	Work Status	Action
>	Gi1	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi2	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi3	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi4	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi5	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi6	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi7	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi8	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi9	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi10	Enable	Off	Low	0	No	PD Disconnected	Edit Repower

Batch editing PoE ports/Editing a single PoE port

Click Batch Edit in Port List. In the displayed dialog box, set the PoE port attributes, and click OK.

Configuration

Rujje Rcycc	test123 > NBS310	0	English ~	△ Ruijie Cloud	鬷Download App	န္မွ Wizard 🕞 Log C
ഷ Home	Port List				© Refresh	🖉 Batch Edit
≝ [₽] VLAN		Batch Edit	×			
Monitor	P	Defit Display		tandard	Work Status	Action
Ports ^	> C	il Disable V		NO F	PD Disconnected	Edit Repower
Basic Settings	> C	2 Non-Standard: Disable ~		No F	PD Disconnected	Edit Repower
Aggregate Ports	> G	Big Priority: Low V		No F	PD Disconnected	Edit Repower
Port Mirroring	> 6	Max Transmit Power: A blank value indicates no limit. Range: 0-30W		No F		Edit Repower
Rate Limiting		* Select Port:				
PoE	> (Available 💼 Unavailable	iber	NO F		Edit Repower
MGMT IP	> 0	6		No i	PD Disconnected	Edit Repower
L2 Multicast	> C			No F	PD Disconnected	Edit Repower
⊘ Security ~	> C	2 4 6 8 10 12 14 16 18 20 22 24 25 26 27 28		No F	PD Disconnected	Edit Repower
🖹 Advanced 🛛 👋	> C	Note: You can click and drag to select one or more ports. Select All Inverse Desel	lect	No F		Edit Repower
Collapse	> G	10 Cancel	OK	No F	PD Disconnected	Edit Repower

The message "Edit operation succeeded." is displayed, and the port list is updated.

Ruijie I & Rcycc	test123 > NB	S3100 🕖		Edit operation suc	ceeded.	Er	nglish ~ 🛛 Ruijie Cl	oud . 월 Download App	🎡 Wizard 🕞 Log ଠା
움 Home	Port List							C Refresh	🖉 Batch Edit
중 VLAN 짶 Monitor ~		Port	PoE Status	Transmit Power Status	Priority	Current Transmit Power (W)	Non-Standard	Work Status	Action
Ports ^	>	Gi1	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
Basic Settings	>	Gi2	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
Aggregate Ports	>	Gi3	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
Port Mirroring	>	Gi4	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
Rate Limiting PoE	>	Gi5	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
MGMT IP	>	Gi6	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
L2 Multicast	>	Gi7	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
⊘ Security ~	>	Gi8	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
🖻 Advanced 🛛 🗠	\$	Gi9	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
Collapse	>	Gi10	Enable	Off	Low	0	No	PD Disconnected	Edit Repower

Click Edit in the Action column in Port List in the displayed dialog box, set the PoE port attributes, and click OK.

Configuration

Ruijie Rcycc	test123 > NBS	3100 🕖					English ~	C Ruijie Cloud	鬷Download App	
ిం Home	Port List								© Refresh	& Batch Edit
E VLAN		Dest	Port:Gi1				×	un dawd	Mark Status	Artion
🖶 Monitor 👋		Port	PoF	Enable				anuaro	work status	Action
Ø Ports ^		Gi1	FOL.	Enable				lo F	D Disconnected	Edit Repower
Basic Settings		Gi2	Non-Standard:	Disable				lo P	D Disconnected	Edit Repower
Aggregate Ports		Gi3	Priority:	Low				lo P	D Disconnected	Edit Repower
Port Mirroring		Gi4	Max Transmit Power:	A blank value ind	licates no limit.	Range: 0-30W		lo F	D Disconnected	Edit Repower
PoE		Gi5				Cancel	OK	lo F	D Disconnected	Edit Repower
MGMT IP		Gi6				Cancer	OK	lo P	D Disconnected	Edit Repower
L2 Multicast		Gi7	Enable	Off	Low	0	١	lo F	D Disconnected	Edit Repower
⊘ Security ~		Gi8	Enable	Off	Low	0	٨	lo P	D Disconnected	Edit Repower
🖻 Advanced 🛛 🐣		Gi9	Enable	Off	Low	0	٩	lo F	D Disconnected	Edit Repower
Collapse	5	Gi10	Enable	Off	Low	0	٦	lo F	D Disconnected	Edit Repower

The message "Edit operation succeeded." is displayed, and the port list is updated.

Ruíjie I Rcycc	test123 > NBS	3100 🕖		Edit operation succession	ceeded.	Er	n glish 🗸 🛆 Ruijie Clo	bud ᇔDownload App	🖨 Wizard 🕞 Log ଠା
🖧 Home	Port List							© Refresh	🖉 Batch Edit
걁 VLAN 쭛 Monitor ~		Port	PoE Status	Transmit Power Status	Priority	Current Transmit Power (W)	Non-Standard	Work Status	Action
🐵 Ports 🔷 🔿	Σ	Gi1	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
Basic Settings	>	Gi2	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
Aggregate Ports	>	Gi3	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
Port Mirroring	>	Gi4	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
PoE	>	Gi5	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
MGMT IP	>	Gi6	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
L2 Multicast	5	Gi7	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
⊘ Security ~	>	Gi8	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
🖻 Advanced 🗸 👋	>	Gi9	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
Collapse		Gi10	Enable	Off	Low	0	No	PD Disconnected	Edit Repower

Displaying PoE port details

Click ^{>>} in **Port List** to display PoE port details.

Configuration

Port L	ist						C Refresh	🖉 Batch Edit
	Port	PoE Status	Transmit Power Status	Priority	Current Transmit Power (W)	Non-Standard	Work Status	Action
~	Gi1	Enable	Off	Low	0	No	PD Disconnected	Edit Repower
Cu Ma PD	rrent: 0mA ax Transmit Power: Type: Failed to fe	No Limit tch the PD type.	Voltage: 0V PD Requeste PD Class: N	d Transmit Power: A	OW	Avg Transmit Power PSE Allocated Trans	: 0W mit Power: 0W	
>	Gi2	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi3	Disable	Off	Low	0	No	PD Disconnected	Edit Repower
>	Gi4	Enable	Off	Low	0	No	PD Disconnected	Edit Repower

4.3.2.6 MGMT IP

The MGMT IP module allows you to configure the device's management IP address.

Ruíjie I & Rcycc	test123_1_Auto > NB55200 0	English ~ _ Auijie Cloud
∻ి Home ని VLAN	MGMT IP Configure network settings.	0
딸 Monitor ~	Internet: DHCP ~	
Ports ^	VLAN:	
Basic Settings	IP: 192.168.110.74	
Aggregate Ports Port Mirroring	Subnet Mask: 255.255.255.0	
Rate Limiting	Gateway: 192.168.110.1	
MGMT IP	DNS Server: 192.168.110.1	
L2 Multicast	Save	
L3 Interfaces		
⊘ Security ~		
🔁 Advanced 🗠		
«Collapse		

Configuring a Static IP address

Configure the management VLAN, IP address, subnet mask, default gateway, and DNS server, and click Save.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5	200 0	English ~	Coud	휋Download App	🖨 Wizard	GLog
A Home	MGMT IP Configure networ	k settings.					0
P Monitor	Internet:	Static IP 🗸					
	VLAN:	1					
Basic Settings	* IP:	192.168.110.74					
Aggregate Ports Port Mirroring	* Subnet Mask:	255.255.255.0					
Rate Limiting	* Gateway:	192.168.110.1					
MGMT IP	* DNS Server:	192.168.110.1					
L2 Multicast	DHCP Server:						
L3 Interfaces		Save					
⊘ Security ~							
🗄 Advanced 🛛 👋							
~ 《Collapse							

VLAN 1 takes effect when the management VLAN is set to null or empty.

The **management VLAN** must be created before the configuration. To create a management VLAN, follow the instructions in VLAN List.

You are advised to bind a configured management VLAN to an uplink port. Otherwise, you may fail to access the eWeb management system.

Management IP Address Supporting DHCP Server

Please select static IP from the Internet dropdown list before enabling DHCP Server. Configure the start IP address, IP count and lease time, and click **Save**.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5	200 0	E	inglish ~	☐ Ruijie Cloud	鼹Download App	🖨 Wizard	🕞 Log C
a [₽] a Home	Configure networ	·k settings.						0
SP VLAN								
쮶 Monitor 🗸	Internet:	Static IP \lor						
⊗ Ports ^	VLAN:	1						
Basic Settings	* IP;	192.168.110.74						
Aggregate Ports	* Subnet Mask:	255.255.255.0						
Port Mirroring	* DNS Server:	192.168.110.1						
MGMT IP	DHCP Server:	Please configure the DNS assigned to	the downstream device in layer 3 management - DHCI	P options.				
 L2 Multicast 	* Start:	192.168.110.100						
L3 Interfaces	* IP Count:	100						
⊘ Security ~	* Lease Time(Min):	1440						
🖻 Advanced 🛛 🗸		Save						
~ 《Collapse								

4.3.3 L2 Multicast

The NBS series switches support two types of multicast features, IGMP Snooping and Multicast VLAN Registration (MVR).

IGMP Snooping

Multicast packets are transmitted to users through a Layer-2 switch. When Layer-2 multicast control is not performed, namely, when IGMP snooping is not implemented, multicast packets are flooded to all the users including those who are not expected to receive these packets. After IGMP snooping is implemented, the multicast packets from an IP multicast profile will no longer be broadcasted within the VLAN but transmitted to designated receivers.



When IGMP snooping is not running.

The multicast router sends a multicast packet to VLAN 1, and the Layer-2 multicast device automatically transfers the packet to VLAN 1, VLAN 2, and VLAN 3. In this way, the multicast services of VLAN 1 are shared by VLAN 2 and VLAN 3.



4.3.3.1 Global Settings

Ruíjie #Rcyc	test123 → NBS3100 ●	English 🗸 🔿 Ruijie Cloud 📓 Download App 💧 Wizard 🕞 Log (
윤 Home	Global Settings IGMP Snooping MVR Multicast Group IGMP Filter Querier	
S ^B VLAN	() Global Settings	
Monitor	Vertice (CHD 2	
Ports	versioni rowievz 🗸	
C L2 Multicast	IGMP Report Suppression	
⊘ Security	Unknown Multicast Pkt Discard ~	
🖻 Advanced	Save	
Ø Diagnostics		
-a- -a- System		
<pre>«Collapse</pre>		

4.3.3.2 IGMP Snooping

Ruíjie I Rcycc	test123_1_Auto > NBS	5200 🔮				English ~ 🛆 Ruijie C	iloud 麗Download App	🔮 Wizard 🕞 Log O
윦 Home	Global Settings	MP Snooping MVR	Multicast Group	IGMP Filter Qu	uerier			
E VLAN	iGMP Snoopin	q						
🕾 Monitor 🗸		2						
Ports	IGMP Snooping							
L2 Multicast		Save						
L3 Interfaces	VLAN List							
🔗 Security 🗸 🗸	1							
🖶 Advanced 🛛 👋	VLAN ID	Multicast Status	Dynamic Learning	Router Port	Fast Leave	Router Aging Time (Sec)	Host Aging Time (Sec)	Action
Diagnostics	1	Disable	Disable		Disable	300	260	Edit
:ª System ∨	10	Enable	Enable		Enable	300	260	Edit
	100	Disable	Enable		Disable	300	260	Edit
	200	Disable	Enable		Disable	300	260	Edit
Collapse	Total 4 10/page ~	< 1 →	Go to page 1					

Click **Edit** in the **Action** column. In the displayed dialog box, you can set multicast, dynamic learning, fast leave, router aging time, host aging time and select ports.

Ruijie Rcycc	test123_1_Auto > NB55200	Edit × Cruijie Cloud BDownload App	
움. Home	Global Settings IGMP Sr		
49 VIAN	() IGMP Snooping	* VLAN ID 1	
문 Monitor	IGMP Snooping	Multicast Status	
Ø Ports		Dynamic Learning	
L2 Multicast	~	Fast Leave	
L3 Interfaces	VLAN List	* Router Aging Time (Sec) 300	
⊘ Security ~	VLAN ID	* Host Aging Time (Sec) 260 ng Time Host Aging Time (Sec) (Sec)	Action
🗄 Advanced 👋	1	Select Port: 260	Edit
Diagnostics	10	Aggregate TUplink Copper Fiber	Edit
🚆 System 👋	100	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 260	Edit
	200	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 260	Edit
	Total 4 10/page 🔗	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	

The message "Operation succeeded." is displayed, and the VLAN list is updated.

Ruíjie l #Rcyc	= tes	st123_1_Auto >	NBS5200 0	Operation s	ucceeded.		English ∽ Ruijie C	loud 📓 Download App	♠ Wizard ြ Log C
옮 Home	G	ilobal Settings	IGMP Snooping MV	R iviuiticast Group	IGIVIP FIITER	Querier			
Se VLAN		() IGMP Snoo	oping						
😤 Monitor		IGMP Snoop	ping 🔵						
Ports			Save						
L2 Multicast									
L3 Interfaces		VLAN List							
Security		VLAN ID	Multicast Status	Dynamic Learning	Router Port	Fast Leave	Router Aging Time (Sec)	Host Aging Time (Sec)	Action
🗄 Advanced		1	Enable	Enable	Gi3,Gi5	Enable	300	260	Edit
② Diagnostics		10	Enable	Enable		Enable	300	260	Edit
System		100	Disable	Enable		Disable	300	260	Edit
		200	Disable	Enable		Disable	300	260	Edit
	1	Total 4 10/page	a 🗸 🤇 1 🗦	Go to page 1					
Collapse									

4.3.3.3 MVR

There are two types of MVR ports: source port and receiver port.

Source Port: The source port is the port to which the multicast traffic flows using the multicast VLAN.

Receiver Port: The receiver port is the port where a listening host is connected to the switch. It utilizes any (or no) VLAN, except the multicast VLAN. This implies that the MVR switch performs VLAN tag substitution from the multicast VLAN source port to the VLAN tag used by the receiver port.

The Multicast VLAN is the VLAN that is configured in the specific network for MVR purposes. It has to be manually specified by the operator for all source ports in the network. It is a VLAN that is used to transfer multicast traffic over the network to avoid duplication of multicast streams for clients in different VLANs.

Enable the MVR and enter the Multicast VLAN, Start IP Address, End IP Addres, at last, click Save.

Reyee Cookbook

Ruíjie l ®Rcy		test123_1_Auto > NBS52	200 🖸						English ~	Cloud	鬷Download App	🚔 Wizard	🕞 Log O
옮 Home		Global Settings IGM	AP Snooping	MVR	Multicast Group	IGMP Fil	lter Ou	uerier					
≝ [₽] VLAN		j											
🕾 Monitor	~	The source port m Fast Leave settings	nust be a MVR VLAN s only take effect or	N member a n the destina	and the receiver po ation port.	ort cannot be a l	MVR VLAN r	nember.					
Ports	~	MVR											
L2 Multicast		* Multicast VLAN	VLAN0001		~								
L3 Interfaces													
⊘ Security	~	* Start IP Address	224.8.1.1			0							
🗄 Advanced	~	* End IP Address	224.8.8.10			0							
Diagnostics	~		Save										
System	×	Port List										🖉 🖉 Bato	h Edit
		Port			Role					Fast Leav	ve		
		Gi1	NC	ONE		~							

Click Batch Edit in the Action column. In the displayed dialog box, you can set port role, fast leave and select ports.

Ruijie Rcycc	test123_1_Auto > NBS5200 0			
옹 Home	Port List			🖉 Batch Edit
≝ ^g VLAN	Port	Batch Edit	×	Fast Leave
倒 Monitor 👋	Gi1	Role SOURCE ~~		
Ø Ports	Gi2	Fast Leave		
L2 Multicast	Gi3	Select Port		
L3 Interfaces	Gi4	Available 💼 Unavailable	Fiber	
⊘ Security ~ Advanced ~	Gi5	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Oiagnostics Section Sectio	Gið	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24	25 26	
🐏 System 🗠	Gi7	Note: You can click and drag to select one or more ports. Select All Inverse	Deselect	
	Gið	Cancel	ок	
	Gi9	NONE		
«Collapse	Gi10	NONE		

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie fRcycc	test123_1_Auto > NBS5200 0	Operation succeeded.	English ~ _ Auijie Cloud 웷Download App . 💩 Wizard 🕒 Log O
울 Home	Port List		ال Batch Edit
S VLAN	Port	Role	Fast Leave
🕾 Monitor 🗸	Gi1	SOURCE	
Ports ~	Gi2	SOURCE	
C L2 Multicast	GI3	NONE	
L3 Interfaces	Gi4	NONE	
⊘ Security ~	Gi5	NONE	
🖻 Advanced 🛛 🐣	Gi6	NONE	
@ Diagnostics ~	GIZ	NONE	
-a- -a- System	017	NUNL	
	Gi8	NONE	
	Gi9	NONE	
«Collapse	Gi10	NONE	

The source port must be a MVR VLAN member and the receiver port cannot be a MVR VLAN member.

Fast Leave settings only take effect on the destination port.

The receiver port must be an access port.

Ruíjie l Rcycc	test123_1_Auto > NBS5200 0	S The receiver port must be an access port. ×	English ~ _ Auijie Cloud
🖧 Home	Port List		🖉 Batch Edit
≝ [₽] VLAN	Port	Role	Fast Leave
至 Monitor ~	Gi1	SOURCE \lor	
🐵 Ports 🛛 🗸	Gi2	SOURCE	
L2 Multicast	Gi3	SOURCE	
L3 Interfaces	Gi4	NONE	
⊘ Security ~	Gi5	RECEIVER	
🖻 Advanced 🛛 🗠			
Oiagnostics Second	Gi6	NONE	
-®- -®- System ~~	Gi7	NONE	
	Gi8	NONE	
	Gi9	NONE	
« Collapse	Gi10	SOURCE	_

You can configure the **Role** of a single in its role column.

Configuration

Port List		2 Batch Ed
Port	Role	Fast Leave
Gi1	SOURCE	
Gi2	SOURCE	
Gi3	NONE	
Gi4	NONE	
Gi5	SOURCE	
Gi6	NONE	
Gi7	NONE	
Gi8	NONE	
Gi9	NONE	

Click **OK** in the pop-up window.

Port List			ل Batch
Port	Role	e	Fast Leave
Gi1	SOURCE		
Gi2	SOURCE		
Gi3	NONE	×	
Gi4	NONE Are yo	ou sure you want to change the port settings?	
Gi5	NONE	Cancel	
Gi6	NONE		
Gi7	NONE		
Gi8	NONE		
Gi9	NONE		
Gi10	NONE	×	

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0	 Operation succeeded. 	English @Ruijie Cloud i ż Download App - @ Wizard 급구
ය Home	Port List		₫_ Batch Ec
^{∠⊕} [™] VLAN	Port	Role	Fast Leave
ው Monitor 🗸 👋	Gi1	SOURCE	
	Gi2	SOURCE	
L2 Multicast	Gi3	SOURCE	
L3 Interfaces	Gi4	NONE	
Security	Gi5	NONE	CD
@ Diagnostics ~	Gi6	NONE	
-a- -a- System ∽	Gi7	NONE	
	Gi8	NONE	
	Gi9	NONE	
<pre>«Collapse</pre>	Gi10	NONE	

You can configure **Fast Leave** to a single port in its Fast Leave column.

Port List			الله عنه المعالم عنه المعالم عنه المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعالم المعال المعالم المعالم
Port	Role		Fast Leave
Gi1	SOURCE	~	
Gi2	SOURCE	~	
Gi3	SOURCE	Y	
Gi4	NONE	¥	
Gi5	NONE	Ŷ	
Gi6	NONE	×	
Gi7	NONE	×	
Gi8	NONE	×	
Gi9	NONE	~	
Gi10	NONE	~	

4.3.3.4 Multicast Group

The static multicast group will not learn dynamic ports.

Reyee Cookbook

Rujje Rcycc	test123_1_Auto > NBS5200 0		English ~ 🛆 Ruijie Cloud	臓Download App _ 会 Wizard 日 Log O
a Home	Global Settings IGMP Snooping MVR Multicast Group	IGMP Filter Querier		
량 VLAN 몇 Monitor ~	Multicast Group The static multicast group will not learn dynamic ports.			
Ø Ports ~	Multicast List	VLAN ID	Q	+ Add Delete Selected
L2 Multicast	Up to 256 entries can be added.			
L3 Interfaces	VLAN ID Multicast IP Address	Protocol Type	e Forwarding	Port Action
🛛 Security 🗸 🗸		No Data		
🗄 Advanced 🛛 🗠	Total 0. 10/page ~ 1 > Go to page 1			
Diagnostics				
-9- -9- 9- System				

Click Add. In the displayed dialog box, you can set the multicast IP address, VLAN ID and select ports.

Ruijie Rcycc	test123_1_Auto > NBS5200 ● English ~ △Ruijie Cloud 闘Download App & Wizard ᠿLog
A Home S VLAN D Monitor ✓ O Ports ✓ L2 Multicast O Security ✓	Global Settings IGMP Sr Multicast Group The static multicast group Multicast List Up to 256 entries can be a VLAN ID VLAN ID VLAN ID Image: State of the state of t
Advanced College	Total 0 10/page 2 4 6 8 10 12 14 16 18 20 22 24 25 26 Note: You can click and drag to select one or more ports. Select All Inverse Deselect Cancel OK
«Collapse	

The message "Operation succeeded." is displayed, and the Multicast list is updated.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0	Operation set	ucceeded.		English ~	☐ Ruijie Cloud	鼹Download App	🔮 Wizard	🕞 Log Ou
윰 Home	Global Settings IGMP Snooping MVR	Multicast Group	IGMP Filter	Querier					
E ^g VLAN	Multicast Group	2							
짶 Monitor 🗸 👋	The static multicast group will not learn dyna	nic ports.							
Ports ~	Multicast List		VLAN ID	~		Q	+ Add	Delete Sel	ected
L2 Multicast	Up to 256 entries can be added.								
L3 Interfaces	VLAN ID Multie	ast IP Address	Protocol		Туре	Forwarding	Port	Action	
🛇 Security 🛛 🗸	1	224.8.1.3	MVR		Static	Gi4-5		Edit Delete	e
🗄 Advanced 🛛 🗸	Total 1 10/page 🗸 🤇 1 🗦 Ge	to page 1							
Ø Diagnostics									
🗄 System 🗸									

The MVR outgoing port must be a receiver port.

Ports Global Settings IGMP S Edit *Multicast Group* The static multicast g C L2 Multicast * Multicast IP Address 224.8.1.3 (?) L3 Interfaces
 Multicast List ⊘ Security * VLAN ID VLAN0001 🗄 Advanced Forwarding Port Available 💼 Unavailable Aggregate 💼 Uplink 💼 Copper 🔛 Fiber Q Diagnostics Gi4-5 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 Info Center N<mark>n N</mark>aka Kanakan Arab 10/page Network Tools 2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 Fault Collection Note: You can click and drag to select one or more ports. Select All Inverse Deselect Cable Diagnostics System Logs Cancel ОК Alerts System

Click Edit. In the displayed dialog box, you can select or deselect the ports.

4.3.3.5 IGMP Filter

Ruíjie I Rcycc	test123_1_Auto > NBS5200 0		English ~ 🛆 Ruj	ie Cloud _ 器 Download App _ 会 Wizard _ Log O
움 Home	Global Settings IGMP Snooping	MVR Multicast Group IGMP Filter	Querier	
량 VLAN 짶 Monitor ~	() IGMP Filter			
⊕ Ports ∽	Profile List			+ Add Delete Selected
L2 Multicast	Profile ID	Behavior Start IP A	ddress End IP Address	Action
L3 Interfaces			No Data	
⊘ Security ~	Total 0 10/page 🗸 🤇 1	So to page 1		
🗄 Advanced 🛛 👋	Filter List			🖉 Batch Edit
Ø Diagnostics	Port	Profile ID	Max Multicast Groups	Action
-⊕- -⊕- System ∽	Gi1	.55	256	Edit
	Gi2		256	Edit
	Gi3		256	Edit
«Collapse	Gi4	**	256	Edit

Click Add. In the displayed dialog box, you can set the profile ID, behavior, start IP address and end IP address.

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Rujje Rcycc	test123_1_Auto > NBS5200	0			English ~	C Ruijie Cloud	Download App	. ∯ Wizard ☐ Log (
윤 Home	Global Settings IGMP S		an a	0				
de VLAN		Add			×			
🕾 Monitor 🛛 🗸	IGMP Filter	* Profile ID	10					
Ø Ports	Profile List						+ Add	Delete Selected
L2 Multicast	Profile ID	Behavior	PERMIT	~		ess	Act	tion
L3 Interfaces		* Start IP Address	235.6.6.6	0				
⊘ Security ~	Total 0 10/page ~	* End IP Address	235.10.10.10	0				
🗄 Advanced 🛛 👋	Filter List			Can				🖉 Batch Edit
Diagnostics	Port		Profile ID	IVIAX	Multicast Groups		Action	1
	Gi1				256		Edit	
	Gi2				256		Edit	
	Gi3				256		Edit	
Collapse	CiA				256		Edit	

The message "Operation succeeded." is displayed, and the profile list is updated.

Ruíjie : Reyce	test123_1_Auto > NBS5200 0	Operation succeeded.	English ~ 🛆 Ruijie Cloud	3월Download App 🔮 Wizard 🕞 Log Ot
윰 Home	Global Settings IGMP Snooping N	VVR Multicast Group IGMP Filter Querier		
음 ^프 VLAN	i IGMP Filter			
쪞 Monitor ~	Profile List			+ Add
⊗ Ports ~	Profile ID Br	abavior Start IP Addrass	End IP Address	Action
L2 Multicast	10 P	FRMIT 235.6.6.6	235 10 10 10	Edit Delete
L3 Interfaces			233101010	eure beiere
⊘ Security ~	Total 1 10/page 🗸 🤇 1 🗦	Go to page 1		
🗄 Advanced 🛛 🗠	Filter List			🖉 Batch Edit
@ Diagnostics ~	Port	Profile ID	Max Multicast Groups	Action
:ª- :a- System ∨	Gi1		256	Edit
	Gi2		256	Edit
	Gi3		256	Edit
Collapse	Gi4		256	Edit

Click Edit. In the displayed dialog box, you can set the behavior, start IP address and end IP address.

Reyee Cookbook

Ruijie Rcycc	test123_1_Auto > NBS5200 @	į.		English ~	🛆 Ruijie Cloud	驣Download App _ 会 Wizard _ Dog O
🖧 Home	Global Settings IGMP Sn					
^g ∰ VLAN	IGMP Filter	Edit		×		
Monitor 🗸	Profile List	* Profile ID				+ Add
Ports		Behavior	PERMIT			
L2 Multicast	10	* Start IP Address	235.6.6.6	0	0	Edit Delete
L3 Interfaces		* End IP Address	235.10.10.10	0		
Security	Iotal I 10/page V					
Advanced Disamenties	Filter List			Cancel		Z Batch Edit
Contraction of the second seco	Port		FIGHEID	wax wurucast Groups		Action
-a⊷ -a⊷ System ∽	Gil			256		Edit
	Gi2			256		Edit
	Gi3			256		Edit
«Collapse	Gi4			256		Edit

Click Batch Edit. In the displayed dialog box, you can set the profile ID, max multicast groups and select ports.

Ruíjie Rcycc	test123_1_Auto > NBS5200 @				
_{ේරී Home}	Profile ID	Behavior	Start IP Address	End IP Address	Action
e ^{gg} VLAN	10	Batch Edit		× 0	Edit Delete
倒 Monitor 👋	Total 1 10/page	Profile ID 10	×		
Ports	Filter List	* Max Multicast Groups 25	6		2 Batch Edit
L2 Multicast	Port	Select Port			Action
① L3 Interfaces		Available 💼 Unavailable	Aggregate 💼 Uplink 💼 🤅	Copper Fiber	Call
⊘ Security ~	GI				Edit
🛱 Advanced	Gi2				Edit
- ranneed	Gi3				Edit
@ Diagnostics ~	GIA	2 4 0 0 10 12	14 10 10 20 22 24 10 20 22 4	24 23 20	Calif
🚟 System 😪	GIM	Note: You can click and drag to	select one or more ports. Select All	nverse Deselect	
	Gi5		Car	Icel OK	Edit
	Gi6				Edit
«Collapse	Gi7			256	Edit

The message "Operation succeeded." is displayed, and the filter list is updated.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5200 0	Operation su	cceeded.	English 🗸 🛆 Ruijie Cloud	鬷Download App
옪 Home	Profile ID	Behavior	Start IP Address	End IP Address	Action
≝ [₽] VLAN	10	PERMIT	235.6.6.6	235.10.10.10	Edit Delete
문 Monitor 🗸	Total 1 10/page 🗸 🚺	> Go to page 1			
Ports	Filter List				🖉 Batch Edit
L2 Multicast	Port	Profile	ID I	Max Multicast Groups	Action
L3 Interfaces	Gil	10		256	Edit
🕝 Security 👋		10		2.00	LUIC
🛱 Advanced 🗸	Gi2			256	Edit
	Gi3	10		256	Edit
System	Gi4			256	Edit
	Gi5			256	Edit
	Gi6			256	Edit
Collapse	Gi7	122		256	Edit

Click Edit. In the displayed dialog box, you can set the profile ID, max multicast groups and select ports.

Ruíjie Rcycc	test123_1_Auto > NBS5200 (
ిం Home	Profile ID	Behavior	Start IP Address	End IP Address	Action
≝ [©] VLAN	10	Batch Edit		× 0	
Monitor	Total 1 10/page 🔗	Profile ID	10 ~		
Ports	Filter List	* Max Multicast Groups	256		🖉 Batch Edit
C L2 Multicast	Port				Action
E3 Interfaces	Gi1			Cancel	Edit
🕝 Security 👋	C 12			276	[Tab]
🖹 Advanced 👋				230	
@ Diagnostics ~	Gi3		10	256	Edit
😤 System 👻	Gi4			256	Edit
	Gi5			256	Edit
	Gi6			256	Edit
«Collapse	Gi7			256	Edit

The message "Operation succeeded" is displayed, and the filter list is updated.

Reyee Cookbook

Ruíjie #Rcycc	test123_1_Auto > NBS5200 0	Operation succession	eded.	English 🗸 🔿 Ruijie Cloud	鍵Download App 合 Wizard 已 Log C
움 Home	Profile ID	Behavior	Start IP Address	End IP Address	Action
ể [₽] VLAN	10	PERMIT	235.6.6.6	235.10.10.10	Edit Delete
짶 Monitor 🗸	Total 1 10/page 🗸 🚺	Go to page 1			
Ø Ports	Filter List				🖉 Batch Edit
C L2 Multicast	Port	Profile ID	, ,	Max Multicast Groups	Action
L3 Interfaces	Gi1	10		256	Edit
⊘ Security ~	Gi2	10		256	Edit
🖻 Advanced 🛛 👋	Gi3	10		256	Edit
Diagnostics	Cit			256	E-di+
-e- -e- -a- System ~~	GIA			230	Luit
	Gi5			256	Edit
	Gi6	,		256	Edit
«Collapse	Gi7			256	Edit

4.3.3.6 Querier

The querier version cannot be higher than the global version. When the global version is lowered, the querier version will be reduced accordingly. If the querier source IP is not configured, the device management IP is used.

Ruíjie I Rcycc	test123_1_Auto > NBS5200 0			Englis	sh 〜 🛆 Ruijie Cloud 鼹 Download A	እpp 🔮 Wizard 🕞 Log O
중 Home	Global Settings IGMP Snoopin	g MVR Multicast Group	IGMP Filter	Querier		
딸 Monitor ~	Querier The querier version cannot be If the querier source IP is not c	higher than the global version. Whe onfigured, the device management i	n the global version is low IP is used.	ered, the querier version will be redu	ced accordingly.	
	Querier List					
L2 Multicast	VLAN ID	Querier Status	Version	Src IP Address	Query Interval (Sec)	Action
L3 Interfaces	1	Disable	IGMPv2		60	Edit
⊘ Security ~	10	Disable	IGMPv2		60	Edit
🗄 Advanced 🛛 🗠	100	Disable	IGMPv2		60	Edit
Ø Diagnostics	200	Disable	IGMPv2		60	Edit
:≞- System ∨	Total 4 10/page 🗸 🤇 1	> Go to page 1				
Collapse						

Click **Edit.** In the displayed dialog box, you can set VLAN ID, querier status, version, source IP address and query interval.

Reyee Cookbook

Ruijie	test123_1_Auto > NBS5200 0									GLog
🖧 Home	Global Settings IGMP Sn	ton the	No. CARTIN.	0						
^g ₽ VLAN	Querier	Edit				×				
🖳 Monitor	The querier version can If the querier source IP	* VLAN ID	1				ordingly.			
Ø Ports	Querier List	Querier Status								
L2 Multicast	VLAN ID	Version	IGMPv2				Query Interval (Sec)	Action	
L3 Interfaces	1	Cee ID Address	100.01				60		Edit	
⊘ Security	10	SIC IP Address	10.0.0.1				60		Edit	
🖻 Advanced	100	Query Interval (Sec)	60				60		Edit	
Diagnostics	200				Cancel	OK	60		Edit	
System					Caricer	UK				
	Total 4 10/page 🗸 🤇	Go to pag	ge <u>1</u>							
«Collapse										

The message "Operation succeeded" is displayed, and the querier list is updated.

Rujje SRcycc	test123_1_Auto >	NBS5200		Operation s	succeeded.		English ~	Coud	器Download App	🗟 Wizard	G Log (
윤 Home	Global Settings	IGMP Snooping	MVR	Multicast Group	IGMP Filter	Querier					
중 VLAN	Querier	version cannot be big	her than the	global version. When t	he global version is	lowered the querier version w	ill be reduced a	accordingly			
문 Monitor ·	If the queri	er source IP is not conf	igured, the d	evice management IP i	s used.	ionered, the querier resident	in be reduced (accordingly.			
○ 12 Multicast	Querier List										
L3 Interfaces	VLAN	ID	Querier St	atus	Version	Src IP Addre	55	Query Interval	(Sec)	Action	
⊘ Security ~	1		Enable	2	IGMPv2	10.0.0.1		60		Edit	
🗄 Advanced 🛛 🗸	10		Disable	2	IGMPv2			60		Edit	
Diagnostics `` ` ` `` ` ` ` `` `` `` ``	200		Disable	a.	IGMPVZ			60		Edit	
: System 🗸	200		Disable	-	IGIVIE V2			00		Luit	
	Total 4 10/pag	e 🗸 🤇 1	Got	to page 1							
Collapse											

4.3.4 L3 Interfaces

The L3 Interfaces module allows you to configure layer-3 interfaces.

Routed Port: A physical port of a layer-3 device can be configured as a routed port. A routed port works as an access port and does not support layer-2 switching.

L3 Aggregate Port: A layer-3 aggregate port is a logical interface consisting of layer-3 physical interfaces of the same type. It virtualizes the physical links into one link so as to increase the link rate. A layer-3 aggregate port supports load balancing among its member links. If a member link fails, traffic will be automatically switched to the other available links, which improves link reliability. A layer-3 aggregate port does not support layer-2 switching.

SVI: An SVI can be used as a management interface. You can also create an SVI for inter VLAN routing.

Reyee Cookbook

Ruíjie I Rcycc	test123_1_Auto ⇒ NE55200	English ~ 🛆 Ruijie Cloud 🛔	륋Download App _ 会 Wizard 🕞 Log O
옹 Home	L3 Interfaces DHCP Clients Static IP Addresses DHCP Option Static Routing ARP List		
E VLAN	Post List		L Adult 2 Interfere
图 Monitor V	Port List		+ Add LS interface
Ports	Up to 16 layer-3 interfaces and 32 IPv4 addresses can be configured.		
L2 Multicast	L3 Interfaces Port Type Networking IP Subnet Mask	DHCP Server DHCF	Server Info Action
A 13 Interfaces	VLAN1 Management VLAN DHCP 192.168.110.74 255.255.255.0	Disabled	Edit Delete
Security ~	Total 1 10/page \vee < 1 > Go to page 1		
🖻 Advanced 🛛 🗠			
② Diagnostics ~ ~			
‡ System ∨			

4.3.4.1 L3 Interfaces

1.1 Add an SVI

Click Add L3 Interface. In the displayed dialog box, select SVI from the Port Type dropdown list.

Ruijie Arcycc	test123_1_Auto > NBS5200 0					
ී Home	L3 Interfaces DHCP Clier		*00 11.4			
至 Monitor Y	Port List Port Type Up to 16 lawer-3 interfaces Port Type	e SVI v				+ Add L3 Interface
 Ports × L2 Multicast 	L3 Interfaces Networking	Static IP ~		erver Di	HCP Server Info	Action
L3 Interfaces	VLAN1 Ma Primary IP/Mask	< 192.168.1.1 255.255.255.0	Add + ⑦	led		
⊘ Security ~	Total 1 10/page VLAN	Select	DHCP Relay			
 Advanced Diagnostics 			unci nellay			
幸 System 🗸			Cancel OK			
«Collapse						

Select the **networking.** If you select the **Static IP** Address, you can set the IP address, subnet mask manually (You can configure one primary IP address and multiple secondary IP addresses, if the primary IP address is not configured, the secondary IP address does not take effect.), VLAN and DHCP Mode.

DHCP Mode: Disable

Add				×
Port Type	SVI	\sim		
Networking	Static IP	~		
Primary IP/Mask	192.168.100.1 255.255.25	55.0	Add + ⑦	
VLAN	VLAN0010	\sim		
DHCP Mode	Disabled O DHCP Server	O D	HCP Relay	
		C	ancel	OK

DHCP Mode: DHCP Server
Add				×
Port Type	SVI	~		
Networking	Static IP	~		
* Primary IP/Mask	192.168.100.1	255.255.255.0	Add + ⑦	
VLAN	VLAN0010	\sim		
DHCP Mode	🔿 Disabled 🛛 💿 I	OHCP Server O D	HCP Relay	
* Start				
* IP Count				
* Lease Time(Min)				
		C	ancel	ОК

DHCP Mode: DHCP Relay

Add			×
Port Type	SVI	\sim	
Networking	Static IP	\sim	
* Primary IP/Mask	192.168.100.1 255.255.255.0)	Add + ⑦
VLAN	VLAN0010	\sim	
DHCP Mode	 Disabled DHCP Server 	0 D	HCP Relay
* Interface IP Address	Select	~	0
* DHCP Server IP Address			
		С	ancel

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie #Rcyc	:c	test123_1_Auto > NBS5	3200 0	Operation	succeeded.		English ~ 🛆 Ruijie	Cloud 퉳Download App	o 🔮 Wizard [∃Log Out
용 Home		L3 Interfaces DHC	P Clients Static IP Add	dresses DHCP Op	otion Static Routing	ARP List				
≝ [₽] VLAN		Port List							+ Add 13 Inte	rface
🔄 Monitor	~	FOITEIST							T Add E5 line	nace
Ports	~	Up to 16 layer-3 inte	erfaces and 32 IPv4 address	ses can be configured.						
L2 Multicast		L3 Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action	
L3 Interfaces		VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled		Edit Dele	ete
Security	~	VLAN10	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Dele	ete
🗄 Advanced	~	Total 2 10/page ~	< 1 > Go	to page 1						
@ Diagnostics	~									
:=- System	~									

If you select **DHCP**, the SVI will obtain the DHCP-assigned IP address.

Reyee Cookbook

+ Add 12 Interface
Action
Edit Delete
e
Ai

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie : Reyco	test123_	1_Auto > NBS5	200 0	Operation :	succeeded.		English ~ 🛆 Ruijie (Cloud 📓 Download Ap	p 🏘 Wizard 🕞 Log Out
ය Home	L3 Inter	faces DHC	P Clients Static IP Add	resses DHCP Op	otion Static Routing	ARP List			
≝ ^g VLAN									
😤 Monitor 🛛 🗸	Port	List							+ Add L3 Interface
Ø Ports	Up t	o 16 layer-3 inte	erfaces and 32 IPv4 address	es can be configured.					
0.1214.15	L3	Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action
L2 Multicast		VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled		Edit Delete
Security Y		VLAN10	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Delete
Advanced V		VLAN100	SVI	DHCP			Disabled		Edit Delete
Oiagnostics V	Total 3	10/page 🗸	< 1 > Go	to page 1					
-⊕- -⊕- System ∨									

If you want to configure an SVI for a VLAN, please make sure that the VLAN is already created.

1.2 Add a Routed Port

Click Add L3 Interface. In the displayed dialog box, select Routed Port from the Port Type dropdown list.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5200 @) Eng	iglish ∽Ri	uijie Cloud 🛛 🎆 Download Ap	op 🔮 Wizard 🕞 Log Or
් ^ම Home	13 Interfaces DHCP Clier				
g ^g VLAN		Add	×		L Add 12 Interface
Monitor 🗸	Port List	Port Type Routed Port			+ Add L5 Interface
Ports ~	Up to 16 layer-3 interface	Networking Static IP.			
L2 Multicast	L3 Interfaces		erver	DHCP Server Info	Action
L3 Interfaces	VLAN1 Ma	Primary IP/Mask 192.168.1.1 255.255.255.0 Add + ⑦	led		Edit Delete
⊘ Security ~	VLAN10	DHCP Mode Disabled DHCP Server DHCP Relay	led		Edit Delete
🖻 Advanced 🛛 👋	VLAN100	Select Port:	led		Edit Delete
Diagnostics ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	Total 3 10/page 🗸	Aggregate T Uplink Copper	Fiber		
🔹 System 🗸 🗸		1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 14 14 14 14 14 14 14 14 14 14 14 14 14 1			
		2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 24 25	26		
		L Der	eselect		
// Callanaa					

Select the **networking**. If you select **Static IP** Address, you can set the IP address, subnet mask manually (You can configure one primary IP address and multiple secondary IP addresses. If the primary IP address is not configured, the secondary IP address does not take effect.), DHCP Mode and select a physical port from the panel.

Ruijie	test123_1_Auto > NBS5200 @		English ~	CRuijie Cloud		
🖧 Home		Add	×			
≝ VLAN	L3 Interfaces DHCP Clie	Port Type Routed Port ~				
🖳 Monitor	Port List	Networking Static IP 🗸				+ Add L3 Interface
Ø Ports	Up to 16 layer-3 interface	Primary IP/Mask 192.168.20.1 255.255.255.0 Add + ⑦				
L2 Multicast	L3 Interfaces	DHCP Mode Disabled DHCP Server DHCP Relay		erver DH	ICP Server Info	Action
L3 Interfaces	VLAN1 Mi	Salact Bart		led		
⊘ Security ~	VLAN10	Aggregate TUplink Copp	per Fib er	led		Edit Delete
🖻 Advanced 🛛 👋	VLAN100	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23		led		Edit Delete
Diagnostics	Total 3 10/page 🗸					
😳 System 🗸		2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24	25 26			
			Deselect			
		Cancel	ОК			
«Collapse						

The message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Rujje Rcycc	test123_1_Auto > NBS5	200 🕫	Operation s	ucceeded.		English 🗸 🛆 Ruijie (Cloud ᇔDownload App	o ♠ Wizard Log O
옹 Home 중 VLAN	L3 Interfaces DHCI	P Clients Static IP Add	Iresses DHCP Op	tion Static Routing	ARP List			
문 Monitor ~	Port List	Participation and 23 IDu4 address	es can be configured					+ Add L3 Interface
Ports	L3 Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action
 L3 Interfaces 	VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled	-	Edit Delete
⊘ Security ~	VLAN10	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Delete
🖻 Advanced 🛛 🗠	Gi5	Routed Port	Static IP	192.168.20.1	255.255.255.0	Disabled		Edit Delete
Diagnostics	Total 4 10/page ~	< 1 > Go	to page 1					

If you select **DHCP**, the routed port will obtain the DHCP-assigned IP address.

Rujje	test123_1_Auto > NBS5200	English 🗸 🗠 Ruijie Clouc	i 髋Download App
දී Home ඒ VLAN	L3 Interfaces DHCP Clier	Add ×	
🕑 Monitor 🛛 🗸	Port List Up to 16 layer-3 interfaces	Port Type Routed Port	+ Add L3 Interface
	L3 Interfaces	Networking DHCP ~ D	HCP Server Info Action
 L3 Interfaces 	VLAN1 Ma	Select Port:	
⊘ Security ~	VLAN10	Available Unavailable Aggrégate T Uplink Copper Hoer ed	Edit Delete
🛱 Advanced 👋	VLAN100		Edit Delete
Q Diagnostics ~	Gi5	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 ed	Edit Delete
-e System	Total 4 10/page \vee	Deselect	
		Cancel	
«Collapse			

The message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Ruíjie	∈	test123_1_Auto > NBS	5200 0	Operation	succeeded.		English 🗸 🕜 Ruijie	Cloud 쀑Download Ap	p 💩 Wizard 🕞 Log O
යි Home		L3 Interfaces DHC	P Clients Static IP Add	Iresses DHCP Op	tion Static Routing	ARP List			
EF VLAN									
문 Monitor ~		Port List							+ Add L3 Interface
⊗ Ports		Up to 16 layer-3 int	erfaces and 32 IPv4 address	es can be configured.					
		L3 Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action
L2 Multicast		VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled		Edit Delete
L3 Interfaces			-			255 255 255 2			
🛇 Security 🗸 🗸		VLAN IU	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Delete
🖹 Advanced 🗸		VLAN100	SVI	DHCP			Disabled		Edit Delete
@ Diagnostics ~		Gi5	Routed Port	Static IP	192.168.20.1	255.255.255.0	Disabled		Edit Delete
😳 System 🗸		Gi9	Routed Port	DHCP			Disabled		Edit Delete
		Total 5 10/page ~	< 1 → Go	to page 1					
Collapse									

1.3 Add a L3 Aggregate Port

Click Add L3 Interface. In the displayed dialog box, select L3 Aggregate Port from the Port Type dropdown list.

⊼ເປເງົາຂ l ≣Rcycc	test123_1_Auto > NBS5200 @					o ♠ Wizard 🕞 Log Ou
용 Home 양 VLAN 또 Monitor · · ·	L3 Interfaces DHCP Clie	Add	×			+ Add L3 Interface
Ports	Up to 16 layer-3 interface	Port Type L3 Aggregate Port \checkmark Networking Static IP \checkmark		erver Dł	HCP Server Info	Action
 L3 Interfaces 	VLAN1 M. VLAN10	Primary IP/Mask 192.168.1.1 255.255.255.0 Add + ⑦ Apprendate Select V		led		Edit Delete
Security	VLAN100	DHCP Mode O Disabled O DHCP Server O DHCP Relay		led		Edit Delete
Q Diagnostics * System *	GI5 GI9	Select Port:	opper Fiber	led		Edit Delete Edit Delete
	Total 5 10/page ×	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24	25 26			
«Collapse		Note: You can click and drag to select one or more ports. Select All Inv	verse Deselect			

Select the **networking**. If you select **Static IP** Address, you can set the IP address, subnet mask manually (You can configure one primary IP address and multiple secondary IP addresses. If the primary IP address is not configured, the secondary IP address does not take effect.), Aggregate, DHCP Mode and select physical **routed** ports from the panel.

Set an aggregate port and select its member ports from the panel. Please configure its member ports as routed ports first.

Configuration

Rujje Rcycc	test123_1_Auto > NBS5200 (Add		×	C Ruijie Cloud) 💩 Wizard 🕞 Log O
🖧 Home	L3 Interfaces DHCP Clie	Port Type	13 Aggregate Port				
≝ [₽] VLAN			Lo riggiegate i ore				
Monitor	Port List	Networking	Static IP \sim				+ Add L3 Interface
Ports ×	Up to 16 layer-3 interface:	Primary IP/Mask	192.168.30.1 255.255.255.0 Add	d + 🕐			
12 Multicast	L3 Interfaces	Aggregate	Ag1 ~		erver DH	ICP Server Info	Action
L3 Interfaces	VLAN1 Ma	DHCP Mode	Disabled O DHCP Server O DHCP	^o Relay	led		Edit Delete
⊘ Security ~	VLAN10	Select Port:			led		Edit Delete
🖻 Advanced 🛛 👋	VLAN100	Available 💼 Una	wailable Aggregate 🖬 Uplin	nk 💼 Copper 📄 Fiber	led		Edit Delete
Diagnostics	Gi5	1 3 5 7	9 11 13 15 17 19 21 23 17 1	9 21 23	led		Edit Delete
a≞- ⊶a- System ∽	Gi9	2 4 6 8	10 12 14 16 18 20 22 24 18 2	20 22 24 25 26	led		Edit Delete
	Total 5 10/page ~	Note: You can click and	drag to select one or more ports. Select	lect All Inverse Deselect			
« Collapse			Cance	ОК			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie i #Rcy	/cc	test123_1_Auto > NBS5	200 0	Operation	succeeded.		English 🗸 🛆 Ruijie	Cloud 📓 Download Ap	p န္ခ Wizard 🕞 Log Ou			
윦 Home		12 Interfacer DHCI	Cliante Static IP Adv		tion Static Pouting	APPLict						
≝ [₽] VLAN			Clients Static IF Aut	liesses Difer of	static Routing	ARF LIST						
😤 Monitor	~	Port List							+ Add L3 Interface			
Ports	~	Up to 16 layer-3 inte	Up to 16 layer-3 interfaces and 32 IPv4 addresses can be configured.									
0 12 Malfaret		L3 Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action			
		VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled		Edit Delete			
L3 Interfaces		VLAN10	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Delete			
Security	~	10.411400	0.4	DUICD			Dia Hari					
🗄 Advanced	~	VLANTOU	SVI	DHCP			Disabled		Edit Delete			
Diagnostics	~	Gi5				Member port of Ag1.						
·0- c .		Gi9				Member port of Ag1.						
-e: System		Ag1	L3 Aggregate Port	Static IP	192.168.30.1	255.255.255.0	Disabled		Edit Delete			
		Total 6 10/page 🗸	< 1 > Go	to page 1								
« Collapse												

If you select **DHCP**, the routed port will obtain the DHCP-assigned IP address.

Reyee Cookbook

Ruíjie Rcycc	test123_1_Auto > NBS5200 @		English ~	C Ruijie Cloud	鍵Download A	pp 🔮 Wizard 🕞 Log (
₅ ² a Home	Port List					+ Add L3 Interface
E VLAN	Up to 16 layer-3 interface	Add	×			
图 Monitor Y	L3 Interfaces	Port Type L3 Aggregate Port 🗸		erver DH	ICP Server Info	Action
Ports	VLAN1 M	Networking DHCP V		led		
L2 Multicast	VLAN10	Aggregate Ag2 ~		led		Edit Delete
L3 Interfaces	VLAN100	Select Port:		led		Edit Delete
⊘ Security	Gi5	Available 💼 Unavailable	Fiber			
🗄 Advanced 🛛 👋	Gi9	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23				
Diagnostics	Gi11			led		Edit Delete
😁 System 🗸 🗸	Gi12	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24	25 26	led		Edit Delete
	Ag1 L	Note: You can click and drag to select one or more ports. Select All Inverse	Deselect	led		Edit Delete
# Collapse	Total 8 10/page 😪	Cancel	ок			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruijie	'cc	test123_1_Auto > NBS5	200 Ø	Operation	succeeded.		English ~ 🛆 Ruijie	Cloud 📓 Download App	o 🚔 Wizard 🕞 Log O
🖧 Home		Port List							+ Add L3 Interface
≝ [₽] VLAN		Up to 16 layer-3 inte	erfaces and 32 IPv4 address	ses can be configured.					
Monitor	×	L3 Interfaces	Port Type	Networking	IP	Subnet Mask	DHCP Server	DHCP Server Info	Action
Ports	×	VLAN1	Management VLAN	DHCP	192.168.110.74	255.255.255.0	Disabled		Edit Delete
L2 Multicast		VLAN10	SVI	Static IP	192.168.100.1	255.255.255.0	Disabled		Edit Delete
L3 Interfaces		VLAN100	SVI	DHCP			Disabled		Edit Delete
Security	~	Gi5				Member port of Ag1.			
🖻 Advanced	~	Gi9				Member port of Ag1.			
Diagnostics Diagno	~	Gi11				Member port of Ag2.			
:=- System	~	Gi12				Member port of Ag2.			
		Ag1	L3 Aggregate Port	Static IP	192.168.30.1	255.255.255.0	Disabled		Edit Delete
		Ag2	L3 Aggregate Port	DHCP			Disabled		Edit Delete
Collapse		Total 9 10/page 🗸	C 1 > Go	to page 1					

4.3.4.2 DHCP Clients

You can view the dynamic IP addresses allocated by the DHCP server to the clients and convert dynamic IP addresses to static IP addresses on this page.

Configuration

Ruíjie Rcycc	test123_1_Auto > NBS5200 0			English ~ 🛆 Ruijie Cloud	調Download App 合 Wizard 日 Log Ou
🖧 Home	L3 Interfaces DHCP Clients Static IP Addresses	DHCP Option Static Routing	ARP List		
≝ ^p VLAN	A Main DHCB clients				0
딸 Monitor ~	View Drice clients.				0
Ø Ports ~	DHCP Clients			Search by Hostname/IP/MAC Q	© Refresh + Batch Convert
L2 Multicast	Up to 1000 IP-MAC bindings can be added.				
L3 Interfaces	No. Hostname	IP	MAC	Remaining Lease Time(min)	Status
⊘ Security ~	1 EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:95	360	Convert to Static IP
🖻 Advanced 🗠	< 1 > 10/page ~				Total 1
Diagnostics					
≆ System 🕓					
« Collapse					

Hostname: The client hostname.

MAC: The client MAC address.

IP Address: The dynamic IP address allocated by the DHCP server to the client.

Remaining Lease Time: The remaining DHCP lease time. After the time expires, the client will obtain an IP address again.

Refresh: Click Refresh to refresh the DHCP client list.

Convert to Static IP: Click Convert to Static IP to convert a dynamic IP address to a static IP address.

Click Convert or Batch Convert to convert a dynamic IP address to a static IP address.

Rujje	test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruijie Clou	d 🗱 Download App 🔮 Wizard 🕒 Log (
🖧 Home					
음 ^말 VLAN	L3 Interfaces DHCP Clients Static IP Addresses	DHCP Option Static Kouting AK	IP LIST		
문 Monitor ~	 View DHCP clients. 				0
	DHCP Clients			Search by Hostname/IP/MAC Q	© Refresh + Batch Convert
L2 Multicast	Up to 1000 IP-MAC bindings can be added.				
L3 Interfaces	No. Hostname	IP	MAC	Remaining Lease Time(min)	Status
⊘ Security ~	1 EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:95	360	Convert to Static IP
🖻 Advanced 🛛 🗸	< 1 > 10/page >				Total 1
Diagnostics `` ` ` `` ` ` ` `` `` `` ``					
🗄 System 🗸					

Click **OK** in the confirmation box.

Reyee Cookbook

Ruijie IRcycc	test123_1_Auto > N	855200 0			English 🗸 🛆 Ruijie Cloud	i 讚Download App
\mathfrak{E}_h Home	12 Interfacer D	HCD Clients Static ID Addresses Di	-CD Ontion Static Pourting APD I	iet.		
중 ⁹ VLAN			ter option state reasing roo c			
图 Monitor Y	View DHCP d					
Ø Ports	DHCP Clients					© Refresh + Batch Convert
L2 Multicast	Up to 1000 IP-N	IAC bindings can be added.				
L3 Interfaces	No.	Hostname	IP	MAC	Remaining Lease Time(min)	Status
⊘ Security ~	0.1	EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:95	356	Convert to Static IP
🖻 Advanced 👋	1 1	10/page	Are you sure you want to o to a static IP address?	x convert the dynamic IP address		Total 1
Diagnostics				Cancel		
돛 System 🖂						

The message "Operation succeeded." is displayed, and the DHCP Clients list and Static IP Address List are updated.

Rujje Rcycc	test123_1_Auto > NBS5200 0	Operation succeeded		English 🗸 🛆 Ruijie Cloud	鬷Download App 🔮 Wizard 🕞 Log Ou
🖧 Home	L3 Interfaces DHCP Clients Static IP Addresses	DHCP Option Static Routing ARP List			
음 [#] VLAN	() View DHCP clients.				0
문 Monitor ·	DHCP Clients			Search by Hostname/IP/MAC Q	© Refresh + Batch Convert
L2 Multicast	Up to 1000 IP-MAC bindings can be added.				
L3 Interfaces	No. Hostname	IP	MAC	Remaining Lease Time(min)	Status
⊘ Security ~	1 EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:9	354	Converted to Static IP
🖻 Advanced 🛛 🗸	< 1 > 10/page >				Total 1
Diagnostics					
🔮 System 🗸					

Ruíjie Reyco	test123_1_Auto > NBS5200 0					English ~	Cloud Ruijie Cloud	證Download App	🔮 Wizard	🕒 Log Out
🖧 Home	L3 Interfaces DHCP Clients	Static IP Addresses DHCP Option	Static Routing	ARP List						
음 ^말 VLAN	i Static IP Address List		·							(?)
쬪 Monitor ~	Static IP Address List					Search by IP/MAC	Q	+ Add	🗇 Delete Sele	ected
Ports ~	Up to 1000 entries can be added.									
L3 Interfaces	No.	IP			MAC		1	Action		
⊘ Security ~	- 1	192.168.7.150		70:	:85:c4:00:e7:95		Edi	Delete		
🖻 Advanced 🗸 🗸	< 1 > 10/page ×									Total 1
Diagnostics ✓										
🚉 System 🗸										

Click Batch Convert to convert dynamic IP addresses to static IP addresses.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruijie Clou	d _ Download App _ 合 Wizard _ Log Out
යි Home	L3 Interfaces DHCP Clients Static IP Addresses	DHCP Option Static Routing ARP Lis	t		
등 VLAN	View DHCP clients.				0
문 Monitor 🗸	DHCP Clients			Search by Hostname/IP/MAC Q	C Refresh + Batch Convert
Ports	Up to 1000 IP-MAC bindings can be added.				
L2 Multicast	No. Hostname	IP	MAC	Remaining Lease Time(min)	Status
⊘ Security ~	☑ 1 *	192.168.7.153	4c:02:20:55:cc:f7	360	Convert to Static IP
🖹 Advanced 👋	2 Honor_V10-38d9e63c47322cf	192.168.7.152	bc:e2:65:9a:8d:be	360	Convert to Static IP
	3 EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:95	359	Converted to Static IP
🚔 System 🗸	< 1 > 10/page >				Total 3

Click **OK** in the confirmation box.

Ruíjie Reyce	test123_1_Auto >	NB55200 Ø			English ~ 🛆 Ruijie Cloue	d 讕Download App					
[₽] ₆ [®] Home	L3 Interfaces	DHCP Clients Static IP Addresses	DHCP Option Static Routing ARP List								
중키 VLAN	View DHC	P clients.				0					
聖 Monitor ~ ~	DHCP Clien	P Clients Search by Hostmanne/IP/MAK O O Refresh + Batch Convert									
Ports ~	Up to 1000 I	to 1000 IP-MAC bindings can be added.									
C L2 Multicast	No.	Hostname	IP	MAC	Remaining Lease Time(min)	Status					
Security ~	1		192.168.7.153	4c:02:20:55:cc:17	360	Convert to Static IP					
Advanced	2	Honor_V10-38d9e63c47322cf	Are you sure you want to con	× wert the dynamic IP address	360	Convert to Static IP					
② Diagnostics ~ ~	<u>⊞</u> 3	EW1200G-PRO-00E795	to a static IP address?		359						
😤 System 🗠		10/page		Cancer		Total 3					

The message "Operation succeeded" is displayed, and the DHCP Clients list and Static IP Address List are updated.

Rujje	test123_1_Auto	> NBS5200 0	S Operati	on succeeded.	English ~	△Ruijie Cloud X Download App Wizard Log Our
යි Home	L3 Interfaces	DHCP Clients Static IP Addresses	DHCP Option Static Routing	ARP List		
광 VLAN 또 Monitor ~	🚺 View D	HCP clients.				0
Ports ~	DHCP Cli	ents			Search by Hostname/IP/I	MAC Q Refresh + Batch Convert
L2 Multicast	Up to 100	IP-MAC bindings can be added.				
L3 Interfaces	No.	Hostname	IP	MAC	Remaining Lease Time(mi	in) Status
⊘ Security ~	. 1	*	192.168.7.153	4c:02:20:55:cc:	f7 358	Converted to Static IP
🖹 Advanced 🗸	2	Honor_V10-38d9e63c47322cf	192.168.7.152	bc:e2:65:9a:8d:	be 358	Converted to Static IP
@ Diagnostics ~	3	EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:	95 357	Converted to Static IP
🚆 System 🗸	< 1	> 10/page v				Total 3

Ruíjie	test123_1_Auto > NBS520	0 0		English 🗸 🛆 Ruijie Cloud 📓 Download App 🔌 Wizar	rd 🕞 Log Ou
S Home	L3 Interfaces DHCP C	Ilients Static IP Addresses DHCP Option Sta	stic Routing ARP List		
E Monitor	 Static IP Address 	List			0
Ports	Static IP Address I	List	Se	arch by IP/MAC Q + Add 🖻 Delete S	Selected
L2 Multicast	Up to 1000 entries can	be added.			
L3 Interfaces	No.	IP	MAC	Action	
⊘ Security ~	0 1	192.168.100.10	00:01:6C:06:A6:29	Edit Delete	
🖻 Advanced 🗸	C 2	192.168.7.150	70:85:c4:00:e7:95	Edit Delete	
Diagnostics ·	1 B	192.168.7.153	4c:02:20:55:cc:f7	Edit Delete	
System 🗸	· 4	192.168.7.152	bc:e2:65:9a:8d:be	Edit Delete	
	< 1 > 10/p	age v			Total 4

4.2.4.3 Static IP Addresses

You can view and manage static IP addresses on this page.

Reyee Cookbook

Ruíjie Rcycc	test123_1_Auto > NBS5200 @					English ~	Cloud Ruijie Cloud	證Download App	p 🔶 Wizard	🕞 Log Ou
් Home	12 Interfacer DHCB Clients	Static IP Addresses DHCR Option	Static Pourling	APD List						
≝ VLAN	Contraction of the second seco		static routing	ARP LIST						
꽃 Monitor ~	Static IP Address List									0
Ports ~	Static IP Address List					Search by IP/MAC	Q	+ Add	Delete Selection	cted
L2 Multicast	Up to 1000 entries can be added.									
L3 Interfaces	No.	IP			MAC		-	Action		
⊘ Security ~	0 1	192.168.7.150			70:85:c4:00:e7:95		Edi	t Delete		
🖹 Advanced 🗠	< 1 > 10/page >									Total 1
Q Diagnostics ~										
System V										

Click Add. In the displayed dialog box, you can set a static IP address.

Ruijie IRcycc	test123_1_Auto > NB55200 0					English ~	🛆 Ruijie Cloud	證Download App		🕞 Log Out
a ² h Home	L3 Interfaces DHCP Clients Stat	tic IP Addresses DHCP Optic	on Static Routing	ARP List						
Monitor	() Static IP Address List		Add		×					0
Ports	Static IP Address List		• IP	192.168.100.2	Sea			+ Add	🛙 Delete Sele	cted
L2 Multicast	Up to 1000 entries can be added.		* MAC	00:01:6C:06:A6:29						
L3 Interfaces	No.	IP					1	lction		
⊘ Security ~		192.168.7.150		Cancel	ж		Edit	Delete		
🖹 Advanced 🛛 🗧	1 10/page									Total 1
@ Diagnostics ~										
표 System 🗸										

The message "Operation succeeded." is displayed, and the static IP address list is updated.

Ruíjie #Rcycc	test123_1_Auto > NBS5200 •		Operation	succeeded.		English	Ruijie Cloud	📓 Download App	💩 Wizard 🕞 Log Out
Home	L3 Interfaces DHCP Clients	Static IP Addresses DHCP Option	Static Routing	ARP List					
野 Monitor ~	Static IP Address List								0
Ø Ports	Static IP Address List					Search by IP/MAC	۵	+ Add	Delete Selected
L2 Multicast	Up to 1000 entries can be added.								
L3 Interfaces	No.	IP			MAC		1	Action	
⊘ Security ~	□ 1	192.168.7.150			70:85:c4:00:e7:9	95	Edi	Delete	
🖹 Advanced 🗸	□ 2	192.168.100.2			00:01:6C:06:A6:2	-29	Edi	Delete	
Oiagnostics ~	10/page v								Total 2
🛬 System 🗸									

Click Edit. In the displayed dialog box, you can modify a static IP address.

Ruijie Reyco	test123_1_Auto > NBS5200 €					English 🗸 🛆 Ruijie Cloud 📓Download App 🔮 Wizard 📑 Log Ou
$_{d^{2}b}^{g}$ Home	13 Interfacer DHCD Cline	ste Static ID Addresses DHCD On	tion Ctatic Pouting	APD 1 5+		
5 [#] VLAN	L'interfaces Once clier		state notality	ARE DSL		
雪 Monitor 🔍	Static IP Address List		Edit		×	0
Ports ~	Static IP Address List	t	• IP	192.168.100.10		Search by IP/MAC Q + Add Delete Selected
L2 Multicast	Up to 1000 entries can be	added.	* MAC	00:01:6C:06:A6:29		
L3 Interfaces	🗌 No.	IP				Action
😔 Security 🗠	. 1	192.168.7.150		Cancel	ок	Edit Delete
🖹 Advanced 🗠	2	192.168.100.2		00:01:6C:06:A6:	29	Ed! Delete
Diagnostics ~	10/page					Total 2
😤 System 🗠						

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie IRcyco	test123_1_Auto > NBS5200 0		Operation s	succeeded.		English ~	△ Ruijie Cloud	讕Download App	🖨 Wizard	🕞 Log Ou
🖧 Home	L3 Interfaces DHCP Clients St	tatic IP Addresses DHCP Option	Static Routing	ARP List						
部 VLAN	Static IP Address List									0
Ports ~	Static IP Address List				Sea	rch by IP/MAC	Q	+ Add	Delete Sele	ected
L2 Multicast	Up to 1000 entries can be added.									
L3 Interfaces	No.	IP		MA	c			Action		
⊘ Security ~	□ 1	192.168.7.150		70:85:c4:	0:e7:95		Edi	t Delete		
🖻 Advanced 🗠	2	192.168.100.10		00:01:6C:	6:A6:29		Edi	t Delete		
@ Diagnostics ~	< 1 > 10/page ~									Total 2
😤 System 🗸										

4.2.4.4 DHCP Option

DHCP option settings are applied to all LAN ports.

Ruijie #Rcycc	test123_1_Auto > NB55200 0	English ~ _ CRuijie Cloud 鍵Download App
🖧 Home	L3 Interfaces DHCP Clients Static IP Addresses DHCP Option Static Routing ARP List	
중 VLAN 땇 Monitor ~	DHCP Option DHCP option settings are applied to all LAN ports.	0
Ø Ports ~	DNS Server Example: 8.8.8, each separated by a space.	
L2 Multicast	Option 43 Enter an IP address or hexadecimal number.	
L3 Interfaces	Option 138 Example: 1.1.1.1	
⊘ Security ~	Option 150 Example: 1.1.1.1, each separated by a space.	
🗄 Advanced 🛛 👋	Saup	
@ Diagnostics ~	Juit	
$\stackrel{\circ = -}{\stackrel{- = -}{\xrightarrow{- = -}}}$ System \checkmark		
Collapse		

DNS Server: (Optional) Set a DNS server address provided by the ISP.

Option 43: (Optional) There are two formats available:

IP addresses, each separated by a space.

A hexadecimal string. Example: 01:C0:A8:01:01.

- **Option 138:** (Optional) Enter the IP address of the wireless controller.
- **Option 150:** (Optional) Enter the IP address of the TFTP server.

4.3.4.5 Static Routing

The Static Routing module allows you to add static routes.

A static route is created manually, but which cannot change with the topological change. Therefore, it is mainly applied to a simple network. When a network error occurs or the topology changes, the administrator needs to edit static route settings manually.

When a packet arrives, the device checks the destination field and compares it with routing table. If it finds a match for destination network, then the device will forward that packet from the specified interface.

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옮 Home	L3 Interfaces DHCP Clients Static IP Addresses DHCP Option Static Routing ARP List		
량 VLAN 딸 Monitor ~	Static Routing When a packet arrives, the device checks the destination field and compares it with routing table. If it finds a match 1 interface. 	for destination network then it will for	ward that packet from the specified 🕐
⊗ Ports ~	Static Route List	mple: 1.1.1.1 Q	+ Add 🗇 Delete Selected
L2 Multicast	Up to 500 static routes can be added.		
L3 Interfaces	Dest IP Address Subnet Mask Outbound Interface Next	t Hop Reachabl	e Action
⊘ Security ~	No Data		
🔁 Advanced 🛛 👋	Total 0 10/nane < 1 > Go to page 1		
Diagnostics	Course Page 1		
:==: System ~			
«Collapse			

Dest IP Address/Subnet Mask: Set a destination IP address and a subnet mask.

Outbound Interface: Select an interface which packets are routed over.

Next Hop: Set a next hop. If the outbound interface is PPPoE, the next hop is not required.

Reachable: Whether the next hop is reachable.

1.1 Add a Generic Static Route

Click Add. In the displayed dialog box, you can set a Generic Static Route.

Reyee Cookbook

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් Home ඒ VLAN ම Monitor ·	L3 Interfaces DHCP Clier Static Routing When a packet arrives, interface. * Dest IP Address	×	ork then it will for	ward that packet from	the specified	0
L2 Multicast L3 Interfaces	Static Route List * Subnet Mask 255:255:255:0 Up to 500 static routes car Outbound Interface Select Dest IP Addre * Next Hop		Reachab	+ Add	Delete Sel	ected
 ⊘ Security ✓ Advanced ✓ @ Diagnostics ✓ 	Total 0 10/page ~ Cancel	ОК				
System ×						

Specify the destination IP address and subnet mask, select an outbound interface from the Outbound Interface dropdown list, set a next hop address. If the outbound interface is enabled with PPPoE, the next hop address is not required.

Ruijie Rcycc	test123_1_Auto > NB55200 0				
e Home	L3 Interfaces DHCP Clier	NUCLOSED CARLS OF AN AND AND AND	~		
VLAN Monitor	Edit Static Routing When a packet arrives, 1 interface.		~	ork then it will forward that pack	et from the specified 🛛 🕐
Ports ~	Static Route List * Subnet Mask	255.255.255.0		Q + Add	Delete Selected
L2 Multicast	Up to 500 static routes car Outbound Interface	VLAN7 ~			
Security ~	Dest IP Addre Next Hop	192.168.7.1		Reachable	Action
🖻 Advanced 👋	Total 0 10/man	Cancel	ок		
② Diagnostics	iota v 10/page v				
🚡 System 👻					
«Collapse					

Click OK. The message "Operation succeeded" is displayed, and the static route list is updated.

Reyee Cookbook

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යි. Home	L3 Interfaces DHCP Clien	s Static IP Addresses DHCP	Option Static Routing	ARP List		
≝ [₽] VLAN	Static Routing	- device about the destination field and			and the state of the second state and	and form the annulfied
	interface.	e device checks the destination field and	compares it with routing table. If i	t indis a match for destination new	vork then it will forward that pace	tet nom the specified
Ports	Static Route List			Example: 1.1.1.1	Q + Add	Delete Selected
L3 Interfaces	Up to 500 static routes can	be added.				
⊘ Security ~	Dest IP Addres	5 Subnet Mask	Outbound Interface	Next Hop	Reachable	Action
🗄 Advanced 🛛 👋	152.100.00	ESSESSES	(LAN)	152.100.7.1	103	Luit Delete
Diagnostics `` ` `` `	lotal 1 10/page V	1 > Go to page 1				
$\frac{a}{a}$ System \vee						

Ping test:

Ruíjie I & Rcycc	test123_1_Auto → NB55200 0	English ~ 🛆 Ruijie Cloud 📓 Download App 🔮 Wizard 🕞 Log (
😤 Monitor 👋	1 Network Tools	0
⊗ Ports 🗸 🗸	Tool • Ping Traceroute DNS Lookup	
 L2 Multicast 		
L3 Interfaces	" IP Address/Domain 192.168.6.1	
⊘ Security ~	* Ping Count 4	
🖻 Advanced 🗸 🗸	* Packet Size 64 Bytes	
Q Diagnostics ^	Start Stop	
Info Center	PING 192.168.6.1 (192.168.6.1): 64 data bytes 72 bytes from 192.168.6.1: seq=0 ttl=64 time=0.000 ms	
Network Tools	72 bytes from 192.168.6.1: seq=1 ttl=64 time=0.000 ms 72 bytes from 192.168.6.1: seq=2 ttl=64 time=0.000 ms	
Fault Collection	72 bytes from 192.168.6.1: seq=3 ttl=64 time=0.000 ms	
Cable Diagnostics	192.168.6.1 ping statistics 4 packets transmitted, 4 packets received, 0% packet loss	
System Logs	round-trip min/avg/max = 0.000/0.000/0.000 ms	
Alerts		
- «Collapse		

1.2 Add a Default Static Route

A default route is a route with the destination IP address set to all 0s. A manually configured default route is the default static route. If the destination address of a packet does not match any entries in the routing table, the device forwards the packet along the default route instead. The default static route can be configured on stub routers.

Click Add. In the displayed dialog box, you can set the Default Static Route.

Reyee Cookbook

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🖧 Home		L3 Interfaces DHCP Clier	en en la la la como	DUCD On the Char	ADDITES				
≝ [₽] VLAN		Static Routing	Edit			×			
聖 Monitor		When a packet arrives, 1 interface.	* Dest IP Address				ork then it will for	ward that packet fro	m the specified 🕜
Ø Ports		Static Route List	* Subnet Mask	255.255.255.0			۵	+ Add	Delete Selected
 L2 Multicast 		Up to 500 static routes car	Outbound Interface	Select ~					
L3 Interfaces		Dest IP Addre	* Next Hop				Reachab	le	Action
⊘ Security		192.168.6.0					Yes		Edit Delete
🖻 Advanced		Total 1 10/page			Cancel	ОК			
Q Diagnostics									
:=- System									
«Collapse									

Set both the destination IP address and the subnet mask to all 0s, then set a next hop address.

Ruijie Rcycc	test123_1_Auto > NBS5200 0				
Sta Home	L3 Interfaces DHCP Client Control In 1999 Discourse Control In 1999 Di				
🖅 VLAN	Edit Static Routing When a packet arrives, 1 interface	×	ork then it will for	ward that packet fro	m the specified
Ports ~	Static Route List Subnet Mask 0.0.0		a	+ Add	Delete Selected
L2 Multicast	Up to 500 static routes car Outbound Interface VLAN1 ~				
Security ~	Dest IP Addre Next Hop 192.168.110.1		Reachabl	e	Action
🔁 Advanced 🛛 🐣	Tetal 1 10/page Cancel	OK	103		Luit Delete
Diagnostics					
🚁 System 🗸					
«Collapse					

Click **OK**. The message "Operation succeeded." is displayed, and the static route list is updated.

Ruíjie I #Rc	усс	test123_1_Auto	> NBS5200 🕖	0	Operation succeed	led.		English ~	△ Ruijie Cloud	畿Download App	💩 Wizard	⊖ Log C
윦 Home		L3 Interfaces	DHCP Clients	Static IP Addresses	DHCP Option	Static Routing	ARP List					
≝ [₽] VLAN		Ctatic I	Pouting									
😤 Monitor	~	<i>i</i> When a interfac	packet arrives, the devi e.	ice checks the destination	n field and compares	it with routing table.	If it finds a match f	or destination net	vork then it will for	ward that packet from	the specifie	d ?
Ø Ports	~	Static Rou	ıte List				Exan	nple: 1.1.1.1	Q	+ Add	1 Delete Se	lected
L2 Multicast		Up to 500	static routes can be add	ded.								
L3 Interfaces			Dest IP Address	Subnet Ma	sk Out	bound Interface	Next	Нор	Reachabl	e	Action	
 ⊘ Security 	×		192.168.6.0	255.255.255	5.0	VLAN7	192.1	68.7.1	Yes		Edit Delet	te
🗄 Advanced	~		0.0.0.0	0.0.0.0		VLAN1	192.16	8.110.1	Yes		Edit Delet	te
Diagnostics Diagno	~	Total 2 10/	page 🗸 < 🚹	> Go to page	1							
System	~											
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Ping test:

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윢 Home		
≝ ^p VLAN		0
ም Monitor 🗸	Tool O Ping Traceroute DNS Lookup	
Ports ~	* IP Address/Domain 192.168.9.1	
L2 Multicast	* Ping Count 4	
L3 Interfaces	* Packet Size 64 Bytes	
⊘ Security ~	Start Stop	
🖻 Advanced 🛛 🗸	PING 192.168.9.1 (192.168.9.1): 64 data bytes 72 bytes from 192.168.9.1: seq=0 ttl=64 time=0.000 ms	
Diagnostics ^	72 bytes from 192.168.9.1: seq=1 ttl=64 time=0.000 ms 72 bytes from 192.168.9.1: seq=2 ttl=64 time=0.000 ms 72 bytes from 192.168.9.1: seq=3 ttl=64 time=0.000 ms	
Info Center	102 169 0.1 pipe statistics	
Network Tools	4 packets transmitted, 4 packets received, 0% packet loss round-trip min/avg/max = 0.000/0.000/0.000 ms	
Fault Collection		
Cable Diagnostics		
Collapse		

1.3 Add a Static Blackhole Route

Packets are routed over a blackhole route to a null interface. The null interface is a virtual interface which cannot be configured with an IP address. Therefore, the packets routed to this interface will be discarded.

Click Add. In the displayed dialog box, you can set a Static Blackhole Route.

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Ruíjie Rcycc	test123_1_Auto > NB55200 0	English ~	☐ Ruijie Cloud 2000 Download	App Wizard 🕞 Log C
🖧 Home	L3 Interfaces DHCP Clients Children Dilles Calles Calles And the		-	
S VLAN	Edit Static Routing	×		
倒 Monitor 🛛 👻	When a packet arrives, interface. * Dest IP Address		ork then it will forward that packe	t from the specified
Ports	Static Route List * Subnet Mask 255.255.255.0		Q + Add	Delete Selected
L2 Multicast	Up to 500 static routes car Outbound Interface			
L3 Interfaces	Dest IP Addre		Reachable	Action
⊘ Security ~	192.168.6.0		Yes	Edit Delete
🖻 Advanced 🛛 🐣	0.0.0.0 Canc	cel OK	Yes	Edit Delete
Diagnostics	Total 2 tatown x C 1 2 Gotopane t			
😳 System 🔗	see a 10kbaña.			
«Collapse				

Specify the destination IP address and a subnet mask, select Null from the Outbound Interface dropdown list.

Ruíjie Rcycc	test123_1_Auto > NB55200 0			
ි Home ේ VLAN	L3 Interfaces DHCP Cliert Control D MCP Curve Control ADD MA	×		
諐 Monitor 👋	When a packet arrives, interface. * Dest IP Address 192.168.1.0		ork then it will forward that packe	t from the specified 🕜
Ports ~	Static Route List * Subnet Mask 255.255.255.0		Q + Add	Delete Selected
L3 Interfaces	Up to 500 static routes car Outbound Interface Null ~		Reachable	Action
⊘ Security ~	192.168.6.0 Cancel	ОК	Yes	Edit Delete
 Advanced Diagnostics 	0.0.0.0 VLAN1 192.168.	110.1	Yes	Edit Delete
System	Total 2 10/page > C 1 > Go to page 1			
20 Ballance				
 collapse 				

 $\label{eq:click} Click \ \textbf{OK}. \ The message "Operation succeeded." is displayed, and the static route list is updated.$

Ruíjie ®Rcycc	test123_1_Auto >	NBS5200 🙆	🔮 Opera	ation succeeded.	En	iglish ∽ Ruijie Cloud ∮	器Download App 🛕 Wizard 🕞 Log O
ය Home	L3 Interfaces	DHCP Clients	Static IP Addresses DH	CP Option Static Routing	ARP List		
문 VLAN	Static Rou	uting acket arrives, the devi	ce checks the destination field a	and compares it with routing table. I	f it finds a match for destina	ation network then it will forwa	ard that packet from the specified \bigcirc
⊕ Monitor	interface.						Ū
L2 Multicast	Static Route	e List	led		Example: 1.1.	1.1 Q	+ Add Delete Selected
L3 Interfaces	De	est IP Address	Subnet Mask	Outbound Interface	Next Hop	Reachable	Action
⊘ Security ~		192.168.6.0	255.255.255.0	VLAN7	192.168.7.1	Yes	Edit Delete
Advanced		0.0.0.0	0.0.0.0	VLAN1	192.168.110.1	Yes	Edit Delete
System		192.168.1.0	255.255.255.0	Null		No 🕑	Edit Delete
	Total 3 10/pag	ge v 🤇 1	> Go to page 1				

Ping test:

0
0

4.3.4.6 ARP List

The **ARP List** module displays all static and dynamic ARP entries.

Reyee Cookbook

Rujje	test123_1_A	uto > NBS5200 🕖			English ~	☐ Ruijie Cloud 2000 Download	l App 🔮 Wizard 🕞 Log O
용 Home	L3 Interface	es DHCP Clients	Static IP Addresses DHCP Optio	on Static Routing	ARP List		
문 Waniter	ARP Lis	st			Search by IP/MAC	Q + Add	Delete Selected
Ø Ports	Up to 2	000 IP-MAC bindings can	be added.				
L2 Multicast	N	o. Interface	MAC	IP	Туре	Reachable	Action
L3 Interfaces	0 1	VLAN7	30:0d:9e:9a:07:e8	192.168.7.1	Dynamic	Yes	Ø Bind
⊘ Security ~	2	VLAN1	30:0d:9e:e7:e9:15	192.168.110.1	Dynamic	Yes	@ Bind
🖻 Advanced 🗸 🗸	Total 2	10/page 🗸 🤇 1	> Go to page 1				
Q Diagnostics ~							
and System ∨							
Collapse							

Click Add, you can add a static ARP entry.

Ruíjie #Rcyo		> NBS5200 @							
é ^e Home	13 Interfaces	DHCP Clients Static	p + 44	DUCD O		40011-4			
S VLAN	ARPList		Add				× w IP/MAC	O + Add	The Delete Selected
Monitor	Up to 2000	IP-MAC bindings can be add	PC	* IP	192.168.110.84				
Ports	No.	Interface		* MAC	C0:B8:E6:9A:43:0D		pe	Reachable	Action
 L2 Multicast 	0 1	VLAN7					imic	Yes	<i>∂</i> Bind
L3 Interfaces	2	VLAN1			Canc	el OK	mic	Yes	
Advanced	Total 2 10/p	age 🗸 💽 🚹 🔅	Go to page	1					
Diagnostics									
System									
«Collapse									

Click $\ensuremath{\text{OK}}\xspace$. The message "Operation succeeded." is displayed, and the ARP list is updated.

Reyee Cookbook

Rujje	test123_1_Auto > NI	BS5200 Ø	Add operation succession	ceeded.	English	~ 〇 Ruijie Cloud 闘 Download A	pp _ 会 Wizard [
🖧 Home	L3 Interfaces D	HCP Clients Statio	: IP Addresses DHCP Option	Static Routing	ARP List		
≝ [₽] VLAN	ARP List				Search by IP/MAC	Q + Add	Delete Selected
Monitor 🗸 🗸	Up to 2000 IP-M	IAC bindings can be add	ed.				
Ports ~	No.	Interface	MAC	IP	Туре	Reachable	Action
 L2 Multicast L3 Interfaces 	. 1	VLAN1	c0:b8:e6:9a:43:0d	192.168.110.84	Static	Yes	Edit Delete
Security ~	2	VLAN7	30:0d:9e:9a:07:e8	192.168.7.1	Dynamic	Yes	@ Bind
	3	VLAN1	30:0d:9e:e7:e9:15	192.168.110.1	Dynamic	Yes	@ Bind
@ Diagnostics ~	Total 3 10/page	√ < 1 >	Go to page 1				
:ª≓ :a≓ System ∽							
« Collanse							

Click Bind, you can bind a dynamic ARP entry to a static ARP entry.

Ruíjie	cc	test123_1_Auto	> NBS5200 🕖			English	~ 凸 Ruijie Cloud 器 Download ル	App 🔮 Wizard 🕞 Log
윦 Home		L3 Interfaces	DHCP Clients	Static IP Addresses DHCP Option	Static Routing	ARP List		
응 VLAN	~	ARP List				Search by IP/MAC	Q + Add	Delete Selected
	~	Up to 2000	IP-MAC bindings can	be added.				
L2 Multicast		No.	Interface	MAC	IP	Туре	Reachable	Action
L3 Interfaces		0 1	VLAN1	c0:b8:e6:9a:43:0d	192.168.110.84	Static	Yes	Edit Delete
Security	~	2	VLAN7	30:0d:9e:9a:07:e8	192.168.7.1	Dynamic	Yes	@ Bind
🖻 Advanced	×	□ 3	VLAN1	30:0d:9e:e7:e9:15	192.168.110.1	Dynamic	Yes	@ Bind
Ø Diagnostics	×	Total 3 10/p	age 🗸 🤇 1	Go to page 1				
$\frac{-\alpha}{-\alpha}$ System	~							
Collapse								

The message "Operation succeeded." is displayed, and the ARP list is updated.

Ruíjie I #Rcycc	test123_1_Auto	> NBS5200	Add operation	succeeded.	English	h ∽ Ruijie Cloud - 闘 Downloa	d App 🔮 Wizard 🕞 Log C
器 Home	L3 Interfaces	DHCP Clients	Static IP Addresses DHCP Optic	n Static Routing	ARP List		
음 VLAN	ARP List				Search by IP/MAC	Q + Add	Delete Selected
⊕ Ports ~	Up to 2000	IP-MAC bindings can b	e added.				
 L2 Multicast 	No.	Interface	MAC	IP	Туре	Reachable	Action
L3 Interfaces	0 1	VLAN1	c0:b8:e6:9a:43:0d	192.168.110.84	Static	Yes	Edit Delete
⊘ Security ~	2	VLAN7	30:0d:9e:9a:07:e8	192.168.7.1	Static	Yes	Edit Delete
🖻 Advanced	3	VLAN1	30:0d:9e:e7:e9:15	192.168.110.1	Dynamic	Yes	
	Total 3 10/p	age 🗸 < 🚺	> Go to page 1				
$\frac{1}{2}$ System \sim							
Collapse							

4.3.5 Security

The Security module includes DHCP Snooping, Storm Control, ACL, Port Protection, IP-MAC Binding, IP Source Guard and Anti-ARP Spoofing.

4.3.5.1 DHCP Snooping

The DHCP Snooping module allows snooping the DHCP packets exchanged between clients and servers to record and monitor IP addresses of users. It also allows filtering invalid DHCP packets, including request packets from clients and response packets from servers. User data based on DHCP Snooping serves security applications such as IP Source Guard.





Ruíjie #Rcycc	test123_1_Auto > NB55200 0	English ~	C Ruijie Cloud	器Download App	🕀 Wizard	🕒 Log Ou
🖧 Home						
를 VLAN	DHCP Snooping Description: Enabling DHCP Snooping helps filter DHCP packets. The device only forwards DHCP request packets to the trusted port and DHCP response packets from the trusted port Note: The port connected to the DHCP server is configured as the trusted port generally.	Ł				
딸 Monitor ~	DHCP Snooping:					
Ø Ports ~						
L2 Multicast						
L3 Interfaces						
⊘ Security ^						
DHCP Snooping						
Storm Control						
ACL						
Port Protection						
IP-MAC Binding						
IP Source Guard						
Anti-ARP Spoofing						
🖹 Advanced 🛛 👋						
@ Diagnostics ~						
🔮 System 🗸						

Click the **DHCP Snooping** toggle to enable or disable DHCP snooping.

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Ruijie #Rcycc	test123_1_Auto ⇒ NBS5200 ●	English ~	C Ruijie Cloud	鬷Download App	\varTheta Wizard	🕒 Log Oi
응 Home						
중 ^무 VLAN	DHCP Snooping DHCP Snooping DHCP Snooping helps filter DHCP packets. The device only forwards DHCP request packets to the trusted port and DHCP response packets from the trusted por Note: The port connected to the DHCP server is configured as the trusted port generally.	t				
또 Monitor 🗸	DHCP Snooping:					
Ø Ports	Option 82:					
L2 Multicast	Select Trusted Dort					
L3 Interfaces	Available 💼 Unavailable 👘 Aggregate 🛐 Uplink 💼 Copper 📷 Fiber					
Security ^	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23					
DHCP Snooping						
Storm Control	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28					
ACL	Note: You can click and drag to select one or more ports. Select All Inverse Deselect					
Port Protection	Save					
IP-MAC Binding						
IP Source Guard						
Anti-ARP Spoofing						
🖹 Advanced 🛛 🗠						
Diagnostics V						
🚆 System 🗸						

After DHCP snooping is enabled, set trusted ports, and click Save.



Enabling DHCP Snooping helps filter DHCP packets. The device only forwards DHCP request packets to the trusted port and DHCP response packets from the trusted port.

The port connected to the DHCP server is configured as the trusted port generally.

4.3.5.2 Storm Control

When there are excessive broadcast, multicast or unknown unicast data flows in the LANs, the network speed decreases and packet transmission timeout greatly increases. This is called LAN storm, which may be caused by topology protocol execution errors or incorrect network configuration.

Users can perform storm control separately for the broadcast, multicast, and unknown unicast data flows. When the rate of broadcast, multicast, or unknown unicast packets received by the device port exceeds the specified rate, the number of packets allowed per second, or the number of kilobits allowed per second, the device transmits packets only at the specified rate, the number of packets allowed per second, or the number of kilobits allowed per second, the device by the device transmits packets only at the specified rate, the number of packets allowed per second, or the number of kilobits allowed per second, and discards packets beyond the rate range, until the packet rate becomes normal, thereby avoiding flooded data from entering the LAN and causing a storm.

Reyee Cookbook

Ruíjie I IRcycc	test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruijie Clo	ud 讃Download App
$_{\delta^{0}\delta}^{0}$ Home	Port list				2 Ratch Edit
£ [₽] VLAN	TOT LIST				
딸 Monitor 🗸 🗸	Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports			No Data		
L2 Multicast	Total 0 10/page ~ 1 S Go to page 1				
L3 Interfaces					
Security ^					
DHCP Snooping					
Storm Control					
ACL					
Port Protection					
IP-MAC Binding					
IP Source Guard					
Anti-ARP Spoofing					
음 Advanced 🛛 🗸					
Diagnostics					
😤 System 🗸 🗸					

Batch adding ports/Adding a single port

Click **Batch Edit.** In the displayed dialog box, select ports, enter the broadcast, unknown multicast, and unknown unicast rate limits, and click **OK**.

Ruijie Rcycc				
🖧 Home	Port List		_	& Batch Edit
里 Monitor ~	Port	Batch Edit	× Unknown Unicast	Action
Ports · ·		Config Type: • By Packet Count O By Traffic Volume		
C L2 Multicast	Total 0 10/page - It Go to page	Broadcast: 1000 pps Range: 1-1488095		
L3 Interfaces		Unknown Multicast: 1000 pps Range: 1-1488095		
⊘ Security ^		Unknown Unicast: 1000 pps Range: 1-1488095		
DHCP Snooping		* Select Port:		
ACL		Available Unavailable Aggregate 🖬 Uplink 💼 Copper 📷 Fi	iber	
Port Protection		1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23		
IP-MAC Binding		2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26	5	
IP Source Guard		Note: You can click and drag to select one or more ports. Select All Inverse Desel	lect	
🖹 Advanced				
@ Diagnostics ~		Carrier	-	
🗿 System 🗸 👻				
« Collapse				

Broadcast: the package consisting of Fbased on MAC address.

Unknown multicast: Unconventional multicast

Unknown unicast: The unicast packetof its source MAC not being in MAC address table.

A message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Rujje	test123_1_Auto > NBS5200 0	Edit operation	succeeded.	English ~ 🛆 Ruijie	Cloud 踺Download App _ 용 Wizard [- Log Out
🖧 Home	Port List				7 Batch Edit
중 VLAN	- OT LIST				
图 Monitor ~	Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports	Git	1000pps	1000pps	1000pps	Edit Delete
 L2 Multicast 	Gi2	1000pps	1000pps	1000pps	Edit Delete
L3 Interfaces	Total 2 10/page - C 1 > Go to pa	ige 1			
Security o					
DHCP Snooping					
Storm Control					
ACL					
Port Protection					
IP-MAC Binding					
IP Source Guard					
Anti-ARP Spoofing					
문 Advanced ~					
Oiagnostics Second					
🔆 System 🗸					

Click **Edit** in the **Action** column of Port List. In the displayed dialog box, enter the broadcast, unknown unicast, and unknown multicast rate limits, and click **OK**.

Ruíjie Reyce	test123_1_Auto > NBS5200 0		English ~	ORulijie Cloud III Download App
් Home ඒ VLAN	Port List			L Batch Edit
🖳 Monitor	Port	Port:Gi1	× Unknown Unicast	Action
🐵 Ports 🗠	GI	Config Type: • By Packet Count · By Traffic Volume	1000pps	Edit Delete
L2 Multicast	GI2	Broadcast: 2000 pps Range: 1-1488095	1000pps	Edit Delete
L3 Interfaces	Total 2 10/page V 1 So to page	Unknown Multicast: 2000 pps Range: 1-1488095		
⊘ Security ^		Unknown Unicast: 2000 pps Range: 1-1488095		
DHCP Snooping				
Storm Control		Cancel		
Port Protection				
IP-MAC Binding				
IP Source Guard				
Anti-ARP Spoofing				
🖹 Advanced 🛛 👻				
Diagnostics				
😤 System 👻				
«Collapse				

A message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Ruijie	test123_1_Auto > NB\$5200 0	Edit operation s	ucceeded.	English ~ 🛆 Ruijie	Cloud 讃Download App 合Wizard 日Log OL
ిం Home రి VLAN	Port List				Z Batch Edit
图 Monitor V	D Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports	Gi1	2000pps	2000pps	2000pps	Edit Delete
L2 Multicast	Gi2	1000pps	1000pps	1000pps	Edit Delete
L3 Interfaces	Total 2 10/page V 1 Go to	page 1			
Security ^					
DHCP Snooping					
Storm Control					
ACL					
Port Protection					
IP-MAC Binding					
IP Source Guard					
Anti-ARP Spoofing					
台 Advanced ~					
@ Diagnostics ~					
🔆 System					

You must set the Rx speed or the Tx speed, when the broadcast, unknown unicast, and unknown multicast rate limits are empty, the port rate is not limited.

Ruijie Reyce				
ස් Home නි VLAN	Port List			2, Batch Edit
🖅 Monitor 🗠	Port	Batch Edit ×	Unknown Unicast	Action
Ø Ports		Config Type: O By Packet Count O By Traffic Volume		
L2 Multicast	Total 0 10/page 🤟 🔨 🚺 💈 Go to page	Broadcast: A blank value indicates no limit. pps Range: 1-1488095		
L3 Interfaces		Unknown Multicast: A blank value indicates no limit. pps Range: 1-1488095		
⊘ Security ^		Unknown Unicast: A blank value indicates no limit. pps Range: 1-1488095		
DHCP Snooping		* Calact Days		
Storm Control		Aggregate 🏦 Uplink 💼 Copper 🔛 Fiber		
ACL		1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23		
Port Protection				
IP-MAC Binding		2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26		
Anti-ARP Spoofing		Note: You can click and drag to select one or more ports. Select All Inverse Deselect		
Advanced				
		Cancel OK		
@ Diagnostics ~				
掌 System 🗸				

A message "Edit operation succeeded." is displayed, and the port list is updated.

Rujje Rcycc	test123_1_Auto > N	IBS5200 🛛	Edit operation	succeeded.	English ~ 🛛 Ruijie Cla	vud 鸝顏Download App . � Wizard . [-}Log Out
ể Home ≝ ^p VLAN	Port List					2. Batch Edit 💿 Delete Selected
쪂 Monitor V		Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ports		GI7	No Limit	No Limit	No Limit	Edit Delete
 L2 Multicast 		Gi8	No Limit	No Limit	No Limit	Edit Delete
L3 Interfaces	Total 2 10/page	v v < 1 > Gota	p page 1			

Batch deleting ports/Deleting a single port for storm control

Select multiple entries in $\ensuremath{\text{Port List}}$ and click $\ensuremath{\text{Delete Selected.}}$

Ruíjie RRcycc	test123_1_Auto > I	NBS5200 O			English ~ 🛆 Ruijie Cl	oud 讕Download App 会 Wizard 금 Log Ou
ිං Home සි ^න VLAN	Port List					🖉 Batch Edit 📄 Delete Selected
图 Monitor ~		Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ports ~		Gi1	2000pps	2000pps	2000pps	Edit Delete
L2 Multicast		GI2	1000pps	1000pps	1000pps	Edit Delete
L3 Interfaces		GI3	1000kbps	1000kbps	1000kbps	Edit Delete
Security ^	Total 3 10/page	o 🗸 🚺 👌 Go to	page 1			
DHCP Snooping						
Storm Control						
ACL						
Port Protection						
IP-MAC Binding						
IP Source Guard						
Anti-ARP Spoofing						
邑 Advanced ~						
@ Diagnostics ~						
📑 System 🗸						

In the displayed confirmation box, click **OK**.

Ruijie IRcycc	test123_1_Auto >	NBS5200 🛛			English 🗸 🛆 Ruijie (Cloud "鍵Download App _ @ Wizard [- Log Oi
表 Home 뢰 VLAN	Port List					2 Batch Edit
图 Monitor		Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ports	8	GI1	2000pps	2000pps	2000pps	Edit Delete
L2 Multicast		Gi2	1000pps	1000pps	1000pps	Edit Delete
L3 Interfaces		GI3	1000kbps	1000kbps	1000kbps	Edit Delete
⊘ Security ^	Total 3 10/pag	e 🥵 🚺 🖻 Go	to page 1			
DHCP Snooping Storm Control ACL			🚺 Are you sure you w	ant to delete the entry? Cancel OK		
Port Protection						
IP-MAC Binding						
Anti-ARP Spoofing						
🗄 Advanced 🛛 🗸						
② Diagnostics ~ ~						
🕀 System 🔗						

A message "Delete operation succeeded." is displayed, and the port list is updated.

Ruíjie #Rcycc	test123_1_Auto > NBS5200 0	Delete operation	in succeeded.	English 🗸 🛆 Ruijie Clo	ud - 關Download App - 合 Wizard - 日 Log Out
ිං Home ළි VLAN	Port List				∠ Batch Edit
倒 Monitor	Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports	GI3	1000kbps	1000kbps	1000kbps	Edit Delete
L2 Multicast	Total 1 10/page < 1 > Go to	page 1			
L3 Interfaces					
⊘ Security ^					
DHCP Snooping					
Storm Control					

Click **Delete** in the **Action** column.

Reyee Cookbook

Ruijie #Rcycc	test123_1_Auto > NBS	\$5200 Ø			English ~ 🛆 Ruijie (Cloud 腱Download App
🖧 Home	Port List					// Batch Edit
≝ ^g VLAN	PortList					2 batch Edit
🖭 Monitor		Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports		GI3	1000kbps	1000kbps	1000kbps	Edit Delete
 L2 Multicast 	Total 1 10/page	√ < <mark>1</mark> > Got	o page 1			
L3 Interfaces						

In the displayed confirmation box, click **OK**.

Ruijie Rcycc	test123_1_Auto > N855200 0			English 🗸 🛆 Ruijie	e Cloud 🏼 Download App 🔮 Wizard 🕞 Log Out
and Home	Port List				2. Batch Edit Delete Selected
图 Monitor	Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
Ø Ports	GI3	1000kbps	1000kbps	1000kbps	Edit Delete
L2 Multicast	Total 1 10/page \vee 🐔 1 👂	Go to page 1			
L3 Interfaces					
⊖ Security ~					
DHCP Snooping		Are you sure you	$_{\rm W}$ u want to delete the entry?		
Storm Control			Cancel		
Port Protection					
IP-MAC Binding					
IP Source Guard					
Anti-ARP Spoofing					

A message "Delete operation succeeded." is displayed, and the port list is updated.

test123_1_Auto > 1	NBS5200	Delete operation	ion succeeded.	English 🗸 🛆 Ruijie (Cloud 쀎Download App
Port List					🖉 Batch Edit 🗎 🖄 Delete Selected
	Port	Broadcast	Unknown Multicast	Unknown Unicast	Action
			No Data		
Total 0 10/page	er v 🤇 🚺 🔿 Go to p	age 1			

4.3.5.3 ACL

An access control list (ACL) is also referred to as firewall or packet filter in some documents. The ACL controls (permits or discards) data packets on a network device interface by defining ACEs.

The ACL module includes ACL List (two types: Based on MAC and Based on IP) and ACL Binding.

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Ruijie	test123_1_Auto > NB55200 0			English - 🛆 Ruijie Cloud 📓 Down	iload App 🛭 🔤 Wizard 🕞 Log O
ిం Home	ACL List ACL Binding				
3 ^문 VLAN	ACL			- + A	dd 🖹 Delete Selected
Ports	Up to 512 entries can be added.				
L2 Multicast	ACL Name	ACL Type	Status		letion
L3 Interfaces			No Data		
Security ^	Total 0 10/page ~ < 1 > Go to page 1				
DHCP Snooping Storm Control					
ACL					
Port Protection					
IP Source Guard					
Anti-ARP Spoofing					
@ Diagnostics ~					
👻 System 🗸					

1.1 Base on MAC

Adding an ACL

Click Add. In the displayed dialog box, select the ACL type, enter the ACL name, and click OK.

Ruijie IRcycc		
.st₀ Home	ACL List ACL Binding	
ジ VLAN	AcL Add ×	+ Add
Ø Ports ~	Up to \$12 entries can be added. *ACL Name: 10	Atlan
L2 Multicast	ACL Type: O Based on IAC Based on IP Address	
⊘ Security	Total 0 10/page V Cancel OK	
DHCP Snooping		
Storm Control		
ACL		
Port Protection		
IP Source Guard		
Anti-ARP Spoofing		
🕾 Advanced 🗠		
Diagnostics		
🔆 System 🗠		

ACL List A	CL Binding			
ACL				+ Add Delete Selected
Up to 512 e	entries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Inactive	Details Edit Delete
Total 1 10/p	bage → < 1 → Go to page 1			

Editing ACEs

Click Details in the Action

column.

ACL List	ACL Binding			
ACL				+ Add Delete Selected
Up to 51	2 entries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Inactive	Details Edit Delete
Total 1	0/page \checkmark K 1 $>$ Go to page 1			

In the displayed side pane, query, add, edit, or delete ACEs.

test123_1_/	uto > NBS5200 Ø		[10]Settings	×
			ACL Name: 10	
ACL List	ACL Binding		ACL: OBlock OAllow	
ACL			IP Protocol Number: 🗹 All	
Up to 1	12 entries can be added.		Ste MAC -	
	ACL Name	ACL Type		
	10	Based on MAC	Dest MAC: 🔽 All	
			Save	Reset
Total 1	10/page / Go to page 1		Existing ACL: (You can click and drag the ACL number	er to swap the ACL.)
			No. Rule	Control Action Type
			No Data	Available

ACL: Block or Allow

IP Protocol Number: Protocol number in the frame header

Src MAC: Source MAC address

Dest MAC: Destination MAC address

Reyee Cookbook

Ruíjie Reyce	test123_1_Auto > NB55200 @	к.		[10]Settings	×
_{a^g Home}				ACL Name: 10	
중 VLAN	ACL List ACL Binding			ACL: Block O Allow	
图 Monitor ~	ACL			IP Protocol Number: All	
Ports ×	Up to 512 entries can be a	dded.		0x 600 (0x60	0 - OxFFFF)
L2 Multicast		ACL Name	ACL Type	Src MAC: All	
L3 Interfaces		10	Based on MAC	00:11:22:33:44:55 / F	SFEFFFFFFF00
⊘ Security ∽	Total 1 10/page 9	Go to page 1		Dest MAC: All	
DHCP Snooping				00:11:22:33:44:55	FFF:FF:FF:FF:00
Storm Control				(msw.acl.addr_mask2)	
ACL.				Save	
Port Protection				Existing ACL: (You can click and drag the ACL number to swa	p the ACL.)
IP-MAC Binding				No. Rule	Control Action
Anti-ARP Spoofing				No Data Availat	le

Enter the source MAC address/mask and click Save.

			[10]Settings			×
A Home			ACL Name:	: 10		
CT VI AN	ACL List ACL Binding		ACL:	O Block O Allow		
s) VLAN	ACL		ID Protocol Number:			
별 Monitor · ·	Un to \$12 entries can be added	_	ir Flotocor Number.			
Ø Ports			Src MAC:	All		
L2 Multicast	ACL Name	ACL Type		30:0D:9E:E7:E9:15	/ FF:FF:FF:FF:FF	
L3 Interfaces	10	Based on MAC		(Inswactadur_Inaske)		
D Security o	Total 1 10/page - Go to page 1		Dest MAC:	All		
o second				70:85:C4:00:E7:95	/ FF:FE:FE:FE:FF:FF	
DHCP Snooping				(Inswactaddi_maskz)		
Storm Control				Save	Reset	
Act Protection			Existing ACL: (You ca	an click and drag the ACL numb	er to swap the ACL)	
IP-MAC Binding			No. Rule		Control	Action
IP Source Guard					type	
Anti-ARP Spoofing				No Data	Available	
Ch Advanced V						
Auvanced						
② Diagnostics ~						
🗄 System 😪						
« Collapse						

			Add operation succeeded.	[10]Se	ettings	×
යි Home					ACL Name: 10	
	ACL List ACL Binding				ACL: Block O Allow	
P Monitor	ACL			IP Prot	tocol Number: 🧧 All	
Ø Ports	Up to 512 entries can be	e added.			Src MAC: 🗹 All	
 L2 Multicast 		ACL Name	ACL Type		Dest MAC: 🗹 All	
L3 Interfaces		10	Based on MAC		Save	
⊘ Security ^	Total 1 10/page ~	Go to page 1		Exist	ting ACL: You can dick and dran the ACL number to sean the ACL.	
DHCP Snooping					Control	Antina
Storm Control				140.	Туре	Action
ACL				1	[Src MAC] 30:0D:9E:E7:E9:15/FF:FF:FF:FF:FF:FF [Dest MAC] 70:85:C4:00:E7:95/FF:FF:FF:FF:FF:FF:FF:FF:FF Block	Edit Move
Port Protection					[IP Protocol Number] All	Delete

Subnet mask: supports FF:FF:FF:FF:FF:FF:FF:FF:FF:FF:00, FF:FF:FF:00:00, FF:FF:FF:00:00.00.

FFindicates exact match while 00 indicates random

For example:

Src MAC:	All					
	30:0D:9E:E7:E9:15	/	FF:FF:FF:FF:00			
	(msw.acl.addr_mask2)					

Indicate 30:0D:9E:E7:E9:xx is being matched --xx could be any letters

Binding to interfaces

Ruíjie Rcycc	test123_1_Auto > NBS520	io 🕑		English ~ - 6	그 Ruijie Cloud 📓 Download App 👌 Wizard 🕞 Log O
문 Home	ACL List ACL Binding				
图 Monitor ~	ACL Binding The device only filte	rs incoming packets.			
Ø Ports ~	ACL Binding				+ Batch Add 🗎 Unbind Selected
L2 Multicast		Port	MAC-based ACL	IP-based ACL	Action
L3 Interfaces		Gi1			Edit Unbind
⊘ Security ^		Gi2	ā		Edit Unbind
DHCP Snooping		GI3			Edit Unbind
Storm Control		GI4			Edit Unbind
Port Protection		GI5		Member port of Ag1.	
IP-MAC Binding		Gi6	**		Edit Unbind
IP Source Guard		GI7	-		Edit Unbind
Anti-ARP Spoofing		G18	~		Edit Unbind
🖻 Advanced 🧹		G19		Member port of Ag1.	
@ Diagnostics ~		Gi10			Edit Unbind
≇ System ∨	Total 30 10/page 🕤	< 1 2 3 >	Go to page 1		

Click Batch Add. In the displayed dialog box, select the target MAC-based ACL and ports, and click OK.

ACL Binding					
ACL Binding The device only filters incoming packets.		Add	×		
ACL Bir	nding	MAC-based ACL: 10 J		+ Batch Add	
D	Port	IP-based ACL: No Data	ACL	Action	
.0	Gi1	* Select Port:		Edit Unbind	
	Gi2	Available Unavailable Aggregate 🖬 Uplink 💼 Copper 🔛 F	iber	Edit Unbind	
	GI3	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 1 4 6 6 7 7 9 11 13 15 17 19 21 23 17 19 21 23		Edit Unbind	
	Gi4	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 2	6	Edit Unbind	
	GI5	Note: You can click and drag to select one or more ports. Select All Inverse Dese	of Ag1.		
	Gi6		_	Edit Unbind	
	Gi7	Cancel OK	•	Edit Unbind	
в	Gi8			Edit Unbind	
	Gi9	Membe	r port of Ag1.		
				Edit Unbind	
Total 30	10/page < 1 2 3 >	Go to page 1			

The message "Operation succeeded" is displayed, and the ACL Binding list is updated.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0	Operation succeeded.	Englisi	n ~ 〇 Ruijie Cloud - 鍵Download App - 身 Wizard - 日Log O
² _{6[™]} Home	ACL List ACL Binding			
m Monitor Y	ACL Binding The device only filters incoming packets.			
Ø Ports ~	ACL Binding			+ Batch Add 💼 Unbind Selected
L2 Multicast	Port	MAC-based ACL	IP-based ACL	Action
L3 Interfaces	Git	10		Edit Unbind
⊘ Security	Gi2	10		Edit Unbind
DHCP Snooping	GI3	-	**	Edit Unbind
Storm Control	G14		and the second sec	Edit Unbind
Port Protection	GI5		Member port of Ag1.	
IP-MAC Binding	GI6			Edit Unblind
IP Source Guard	Gi7			Edit Unbind
Anti-ARP Spoofing	G18	-	-	Edit Unbind
🖻 Advanced 🛛 🗸	G19		Member port of Ag1.	
④ Diagnostics ~	Gi10			Edit Unbind
李 System ~	Total 30 10/page < 1 2 3 >	Go to page 1		

In the ACL list page, the status of ACL will show as Active.

ACL List A	CL Binding			
ACL				+ Add 🗇 Delete Selected
Up to 512 (entries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
Total 1 10/p	page \vee < 1 > Go to page 1			

1.2 Base on IP Address

Adding an ACL

Click Add. In the displayed dialog box, select the ACL type, enter the ACL name, and click OK.

Configuration

Rujje	test123_1_Auto > NBS5200 0		English ~ Ruijie Cloud 📓 Download App 🔮 Wizard 📑 Log O
සි Home ඒ VLAN	ACL List ACL Binding		
图 Monitor ~	ACL	Add ×	+ Add 🖹 Delete Selected
Ø Ports ~	Up to 512 entries can be added. ACL Name	* ACL Name: 100	Action
L2 Multicast L3 Interfaces	III 10	ACL Type: O Based on MAC O Based on IP Address	Details Edit Delete
⊘ Security ^	Total 1 10/page - Go to page	Cancel OK	
DHCP Snooping Storm Control			
ACL Port Protection			
IP-MAC Binding			
IP Source Guard Anti-ARP Spoofing			
🖻 Advanced 👋			
Diagnostics			
«Collapse			

ACL List AC	LBinding			
ACL				+ Add Delete Selected
Up to 512 er	tries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
	100	Based on IP Address	Inactive	Details Edit Delete
Total 2 10/pa	ge \checkmark (1) Go to page	1		

Editing ACEs

Click **Details** in the **Action** column.

ACL List ACL	Binding			
ACL				+ Add Delete Selected
Up to 512 ent	tries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
	100	Based on IP Address	Inactive	Details Edit Delete
Total 2 10/page > < 1 > Go to page 1				

In the displayed side, you can pane, query, add, edit, or delete ACEs.
Configuration

test123_1_Auto >	NBS5200 0		[100]Settings			×
			ACL Name:	100		
ACL List AC	LBinding		ACL:	O Block O Allow	61	
ACL			IP Protocol Number			
Up to \$12 er	tries can be added.			1	(0-255) 🕐	
			Con 10. And down	All		
	ACL Name	ACL type	SIC IP Address:	192.168.1.1	/ 255,255,255,0	
	10	Based on MAC		(msw.acl.addr_mask2)		
	100	Based on IP Address	Dest ID Address			
Total 2 10/ca	on w 1 D Go to name 1		Dest IP Address.	192.168.1.1	/ 255,255,255,0	
				(msw.acl.addr_mask2)		
					Devet	
				Save	Keset	
			Existing ACL: (You car	i click and drag the ACL nu	mber to swap the ACL)	
			No. Rule		Control Type	Action
				No D	ata Available	

test123_1_A	uto > NBS5200 🕖		[100]Settings	×
			ACL Name: 100	
ACL List	ACL Binding		ACL: O Block • Allow	
ACL			IP Protocol Number:	
Up to 5	12 entries can be added.		1 (0-255) O	
	ACL Name	ACL Type	Src IP Address: 🗌 All	
	10	Based on MAC	192.168.10.100 / 255.255.255.0	
m	100	Based on IP Address	(msw.acl.addr_mask2)	
			Dest IP Address: All	
Total 2	10/page V K 1 V Go to page 1		192.168.20.100 / 255.255.255.0	
			(msw.acl.addr_mask2)	
			Save Reset	
			Existing ACL: (You can click and drag the ACL number to swap the ACL.)	
			No. Rule Control Action Type	n
			No Data Available	

Reyee Cookbook

Ruíjie Reyce	test123_1_Auto > NBS520	00	Add operation succeeded.	[100]Settings	×
a ⁵ b Home				ACL Name: 100	
🖉 VLAN	ACL List ACL Binding			ACL: Block O Allow	
🗐 Monitor	ACL			IP Protocol Number: Z All	
Ports	Up to 512 entries can b	e added.		Src IP Address: Z All	
L2 Multicast		ACL Name	ACL Type	Dest IP Address: 🔽 All	
L3 Interfaces			Based on MAC	Com Decet	
Security		100	Based on IP Address	Sare reser	
DHCP Snooping	Total 2 10/page	Go to page 1		Existing ACL: (You can click and drag the ACL number to swap the ACL) Control	
Storm Control				No. Rule Type Act	ion
ACL				[Src IP Address] 192.168.10.100/255.255.255.0 Edit 1 [Dest IP Address] 192.168.20.100/255.255.255.0 Allow	Move
Port Protection				[IP Protocol Number] ICMP(1)	iete
IP-MAC Binding					
IP Source Guard					
Anti-AKP Spooting					

Binding to interfaces

ACL List ACL Bir	ACL List ACL Binding					
CL Binding The device only filters incoming packets.						
ACL Binding	ACL Binding					
	Port	MAC-based ACL	IP-based ACL	Action		
	Gi1	10		Edit Unbind		
	GI2	10		Edit Unbind		
	Gi3			Edit Unbind		
	Gi4	***		Edit Unbind		
	GI5		Member port of Ag1.			
	G16	-	-	Edit Unbind		
	GI7			Edit Unbind		
	GI8	-		Edit Unbind		
	Gi9		Member port of Ag1.			
	Gi10		**	Edit Unbind		
Total 30 10/page	✓ < 1 2 3 > G	io to page 1				

Click Batch Add. In the displayed dialog box, select the target MAC-based ACL and ports, and click OK.

ACL Binding The device only		Add	×	
ACL Binding		MAC-based ACL: No Data	~	+ Batch Add
	Port	IP-based ACL: 100	Y	Action
	Gi1	* Select Port:		Edit Unbind
	GI2	Available Unavailable	Uplink Copper Fiber	Edit Unbind
	GI3		17 19 21 23	Edit Unbind
	Gi4	2 4 6 8 10 12 14 16 18 20 22 24	18 20 22 24 25 26	Edit Unbind
	GI5	Note: You can click and drag to select one or more ports.	Select All Inverse Deselect of Ag1.	
	GI6			Edit Unbind
	Gi7		Cancel OK	Edit Unbind
	GI8			Edit Unbind
	GI9		Member port of Ag1.	
	Gi10			Edit Unbind

The message "Operation succeeded." is displayed, and the ACL Binding list is updated.

Ruijie Rcycc	test123_1_Auto > NBS5200 0		Operation succeeded.	Eng	jlish ~ 🛆 Ruijie Cloud 📓Download App 🔌 Wizard 🕞 Log O
්රී Home ඒ VLAN	ACL List ACL Binding				
倒 Monitor 🗸 🗸	ACL Binding The device only filters incom	ing packets.			
Ø Ports	ACL Binding				+ Batch Add
 L2 Multicast 		Port	MAC-based ACL	IP-based ACL	Action
L3 Interfaces		GI1	10	**	Edit Unbind
⊘ Security ^		GI2	10		Edit Unbind
DHCP Snooping		GI3		100	Edit Unbind
Storm Control		Gi4		100	Edit Unbind
Port Protection		GI5		Member port of Ag1.	
IP-MAC Binding		GI6			Edit Unbind
IP Source Guard		G17			Edit Unbind
Anti-ARP Spoofing		G18	-	1753	Edit Unbind
🖻 Advanced 🔍		G19		Member port of Ag1.	
@ Diagnostics ~		Gi10		**	Edit Unbind
👙 System 🗸	Total 30 10/page ~	1 2 3 → Go to page 1			

In the ACL list page, the status of ACL will show as $\ensuremath{\textbf{Active.}}$

ACL List ACL	Binding				
ACL				+ Add 🖻 Delete Selected	
Up to 512 ent	ries can be added.				
	ACL Name	ACL Type	Status	Action	
	10	Based on MAC	Active	Details Edit Delete	
	100	Based on IP Address	Active	Details Edit Delete	
Total 2 10/page \checkmark Co to page 1					

1.3 Editing an ACL

Configuration

ACL				+ Add 🗇 Delete Selected
Up to 512 entr	ies can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
	100	Based on IP Address	Active	Details Edit Delete
	200	Based on IP Address	Inactive	Details Edit Delete



ACL List ACL	L Binding	Edit ×	+ Add Delete Selected
Up to 512 en	ntries can be added.	LACI Name	
a	ACL Name	- ACLINAIRE: 300	Action
	10	ACL Type: Based on MAC Based on IP Address	Details Edit Delete
	100	Cancel OK	Details Edit Dokete
	200	Based OILIP AUGIESS IIIdCLINE	Details Edit Delete
Total 3 10/pa	ge 👻 🔇 🚺 🗦 Go to pa	90 1	

A message "Edit operation succeeded." is displayed, and the ACL list is updated.

Ruijie RRcycc	test123_1_Auto > NBS5200 ●		Edit operation succeeded.		English ~ Ruijle Cloud 쀎Download	d App 🔮 Wizard 🕞 Log Out
🖧 Home	ACL List ACL Binding					
部 VLAN	ACL				+ Add	Delete Selected
Monitor	Up to 512 entries can be addee	d.				
 L2 Multicast 		ACL Name	ACL Type	Status	Actio	on
L3 Interfaces		10	Based on MAC	Active	Details Edi	t Delete
⊘ Security ^		100	Based on IP Address	Active	Details Edi	t Delete
DHCP Snooping		300	Based on IP Address	Inactive	Details Edi	t Delete
Storm Control	Total 3 10/page 🗸 🤇	1 > Go to page 1				

The ACL which has been bound to interface cannot be edited. You need to remove the bind before editing.

ACL List A	CL Binding						
ACL				+ Add 🖻 Delete Selected			
Up to 512 e	Up to 512 entries can be added.						
	ACL Name	ACL Type	Status	Action			
	10	Based on MAC	Active	Details Edit Delete			
	100	Based on IP Address	Active	Details Edit Delete			
	300	Based on IP Address	Inactive	Details Edit Delete			
Total 3 10/page \checkmark < 1 \Rightarrow Go to page 1							

1.4 Batching deleting ACLs/Deleting a single ACL

Select ACLs in the ACL list, and click Delete Selected.

ACL List ACL F	Binding						
ACL				+ Add			
Up to 512 entri	Up to 512 entries can be added.						
	ACL Name	ACL Type	Status	Action			
	10	Based on MAC	Active	Details Edit Delete			
	400	Based on MAC	Inactive	Details Edit Delete			
	100	Based on IP Address	Active	Details Edit Delete			
	300	Based on IP Address	Inactive	Details Edit Delete			
Total 4 10/page	Go to page 1						

Click **OK** in the confirmation box.

ACL List	ACL Binding				
ACL				+ Add 🖻 Delete Selected	
Up to 512	entries can be added.				
8	ACL Name	ACL Type	Status	Action	
8	10	Based on MAC	Active	Details Edit Delete	
	400	Based on MAC	Inactive	Details Edit Delete	
8	100	×	Active	Details Edit Delete	
	300	Are you sure you want to delete the entry?	Inactive	Details Edit Delete	
Total 4 10/page v C 1 3 Go to page 1					

A message "Delete operation succeeded." is displayed, and the ACL list is updated.

Ruijie IRcycc	test123_1_Auto > NBS5200 O	Delete operation succeeded.	Engl	ish ∽ Ruijie Cloud 📓 Download App 🔮 Wizard 🕞 Log Out
음 Home	ACL List ACL Binding			
≝ [₽] VLAN	ACL			+ Add Delete Selected
图 Monitor ~	Up to 512 entries can be added.			
Ports ~	ACL Name	ACL Type	Status	Action
C L2 Multicast	10	Based on MAC	Active	Details Edit Delete
Security	100	Based on IP Address	Active	Details Edit Delete
DHCP Snooping	Total 2 10/page V C 1 S Go to page 1			
Storm Control				
ACL				

Alternatively, click **Delete** in the Action column.

ACL List	ACL Binding			
ACL				+ Add 🖻 Delete Selected
Up to 512	entries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
	500	Based on MAC	Inactive	Details Edit Delete
	100	Based on IP Address	Active	Details Edit Delete
Total 3 10/	/page ∨ < 1 > Go to page 1			

In the displayed confirmation box, click OK.

ACL List	ACL Binding			
ACL				+ Add Delete Selected
Up to 5	12 entries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
	500	Based on MAC	Inactive	Details Edit Delete
	100	×	Active	Details Edit Delete
Total 3	10/page v C 1 So to page 1	Are you sure you want to delete the entry? Cancel OK		

A message "Delete operation succeeded." is displayed, and the ACL list is updated.

Ruijie Rcycc	test123_1_Auto > NBS5200 0	Delete operation succeeded.	Englis	h ∽ Ruijie Cloud 📓 Download App 🛛 & Wizard 🕞 Log Out
å ² ∂ Home	ACL Line ACL Direction			
중 VLAN	ACL Dirding			
🖭 Monitor 🗸 🗸	ACL			+ Add 🗈 Delete Selected
Ports	Up to 512 entries can be added.			
0.1216.00	ACL Name	ACL Type	Status	Action
L3 Interfaces	10	Based on MAC	Active	Details Edit Delete
Security ^	100	Based on IP Address	Active	Details Edit Delete
DHCP Snooping	Total 2 10/page < < 1 > Go to page 1			
Storm Control				
ACL				

The ACL which has been bound to interface cannot be edited. You need to remove the bind before editing.

ACL List ACL	. Binding			
ACL				+ Add 🗇 Delete Selected
Up to 512 en	tries can be added.			
	ACL Name	ACL Type	Status	Action
	10	Based on MAC	Active	Details Edit Delete
۵	100	Based on IP Address	Active	Details Edit Delete
Total 2 10/pag	ge \vee K 1 > Go to page	i		

1.5 Batch unbinding ACLs/Unbinding a single ACL

Configuration

ACL List ACL Bir	ACL List ACL Binding				
ACL Binding The device on	ly filters incoming packets.				
ACL Binding				+ Batch Add 🗈 Unbind Selected	
	Port	MAC-based ACL	IP-based ACL	Action	
	Gi1	10		Edit Unbind	
	Gi2	10		Edit Unbind	
	GI3		100	Edit Unbind	
	Gi4		100	Edit Unbind	
	GI5		Member port of Ag1.		
	Gi6	**		Edit Unbind	
	Gi7	20 1		Edit Unbind	
	GI8	**		Edit Unbind	
	G19		Member port of Ag1.		
	Gi10	-		Edit Unbind	
Total 30 10/page	< 1 2 3 > Go	to page 1			

Select multiple entries in $\ensuremath{\text{ACL}}$ Binding, and click $\ensuremath{\text{Unbind}}$ Selected.

ACL List ACL Binding						
ACL Binding The device only	CLE Binding The device only filters incoming packets.					
ACL Binding				+ Batch Add 🗇 Unbind Selected		
	Port	MAC-based ACL	IP-based ACL	Action		
	GI1	10		Edit Unbind		
	GI2	10		Edit Unbind		
	GI3		100	Edit Unbind		
	Gi4		100	Edit Unbind		
	GI5		Member port of Ag1.			
	GI6			Edit Unbind		
	Gi7			Edit Unbind		
	Gi8			Edit Unbind		
	G19		Member port of Ag1.			
	Gi10			Edit Unbind		
Total 30 10/page	< 1 2 3 > Go 1	to page 1				

Click \mathbf{OK} in the confirmation box.

Configuration

ACL List ACL Binding					
ACL Binding The device only filters incoming packets.					
ACL Binding				+ Batch Add	
	Port	MAC-based ACL	IP-based ACL	Action	
8	Gi1	10		Edit Unbind	
	Gi2	10		Edit Unbind	
	Gi3	• Are you sure you want to delete the entry?	100	Edit Unbind	
	G14	Cancel OK	100	Edit Unbind	
	GI5		Member port of Ag1.		
	Gi6			Edit Unbind	
	Gi7			Edit Unbind	
	Gi8			Edit Unbind	
	GI9		Member port of Ag1.		
	Gi10			Edit Unbind	
Total 30 10/page - C 1 2 3 > Go to page 1					

A message "Unbind operation succeeded." is displayed, and the ACL Binding list is updated.

Ruijie RRcycc	test123_1_Auto > NBS5200 0		Unbind operation succeeded.	English -	・ 〇 Ruijie Cloud 調Download App 合 Wizard 日 Log O
s ² a Home ≦ ² VLAN	ACL List ACL Binding				
图 Monitor ~	ACL Binding The device only filters incom	ning packets.			
Ports	ACL Binding				+ Batch Add
L2 Multicast		Port	MAC-based ACL	IP-based ACL	Action
L3 Interfaces		Gi1			Edit Unbind
⊘ Security ^		GI2	-		Edit Unbind
DHCP Snooping		GI3	-	100	Edit Unbind
Storm Control		GI4	-	100	Edit Unbind
Port Protection		GI5		Member port of Ag1.	
IP-MAC Binding		Gi6			Edit Unbind
IP Source Guard		Gi7	·		Edit Unbind
Anti-ARP Spoofing		Gi8			Edit Unbind
Advanced V		Gi9		Member port of Ag1.	
Diagnostics		Gi10			Edit Unbind
😤 System 🗸 🗸	Total 30 10/page 🗸 🤇	1 2 3 > Go to page 1			

Alternatively, click **Unbind** in the **Action** column.

Configuration

ACL List ACL Bir	ACL List ACL Binding					
ACL Binding The device on	ly filters incoming packets.					
ACL Binding				+ Batch Add 🗈 Unbind Selected		
	Port	MAC-based ACL	IP-based ACL	Action		
	Gi1			Edit Unbind		
	Gi2	17 1		Edit Unbind		
	GI3		100	Edit Unbind		
	Gi4		100	Edit Unbind		
	GI5		Member port of Ag1.			
	GI6			Edit Unbind		
	Gi7			Edit Unbind		
	Gi8			Edit Unbind		
	Gi9		Member port of Ag1.			
	Gi10	-	-	Edit Unbind		
Total 30 10/page	···· 1 2 3 D	Go to page 1				

In the displayed confirmation box, click $\ensuremath{\text{OK}}$.

ACL List ACL Binding							
ACL Binding The device only filters in	ACL Binding The device only filters incoming packets.						
ACL Binding				+ Batch Add			
D.	Port	MAC-based ACL	IP-based ACL	Action			
	Gil			Edit Unbind			
8	Gi2	-	-	Edit Unbind			
	Gi3	Are you sure you want to delete the entry?	× 100	Edit Unbind			
E.	Gi4	Cancel	100	Edit Unbind			
	GI5		Member port of Ag1.				
0	GI6			Edit Unbind			
0	G17			Edit Unbind			
	Gi8			Edit Unbind			
0	Gi9		Member port of Ag1.				
	GI10			Edit Unblind			
Total 30 10/page -> << 1 2 3 > Go to page 1							

A message "Unbind operation succeeded." is displayed, and the ACL Binding list is updated.

Reyee Cookbook

Ruffe	test123_1_Auto > NBS5200 0		Unbind operation succeeded.		English ~ _ Aujjie Cloud ᇔDownload App
중 Home	ACL List ACL Binding				
⊞ Monitor ~	ACL Binding The device only filters incomin	ig packets.			
Ports ~	ACL Binding				+ Batch Add 🗍 Unbind Selected
 L2 Multicast 		Port	MAC-based ACL	IP-based ACL	Action
L3 Interfaces		GI1	**		Edit Unbind
⊘ Security ^		GI2			Edit Unbind
DHCP Snooping		GI3			Edit Unbind
Storm Control		Gi4		100	Edit Unbind
Port Protection		GIS		Member port of Ag1.	
IP-MAC Binding		GI6	**	**	Edit Unbind
IP Source Guard		GI7	**		Edit Unbind
Anti-ARP Spoofing		Gi8	-		Edit Unbind
음 Advanced ~		G19		Member port of Ag1.	
@ Diagnostics ~		Gi10	-	-	Edit Unbind
🕆 System 🗸	Total 30 10/page ~ <	1 2 3 > Go to page 1			

4.3.5.4 Port Protection

Users on different ports are isolated at layer 2 when port protection is enabled.

Ruijie Rcycc	test123 > NBS3100		English ~	🕀 Wizard 🕞 Log Out
응 Home 양 VLAN	Port Protection The protected ports are isolated from each other.			
딸 Monitor 🗸	Port List			& Batch Edit
Ø Ports		Port	Action	
L2 Multicast		Gi1		
Security ^		Gi2		
DHCP Snooping		GI3		
Storm Control		Gl4		
ACL		GI5		
Port Protection		Gi6		
IP-MAC Binding		GI7		
IP Source Guard		Gi8		
Anti-ARP Spoofing		G19		
🖹 Advanced 🗸 🗸		GII0		
Diagnostics `	Total 28 10/page ∨ < 1 2 3 >	Go to page 1		
System V				

Click Batch Edit. In the displayed dialog box, enable or disable port protection and select ports.

Configuration

Port Protection The protected ports are isolated from each other.				
Port List	Batch Edit	×		🖉 Batch Edit
	Port Protection:		Action	
	* Select Port:			
	Available 💼 Unavailable			
	1 3 5 7 9 11 13 15 17 19 21 23			
	2 4 6 8 10 12 14 16 18 20 22 24 25 26 27 28			
	Note: You can click and drag to select one or more ports. Select All Inverse Deselect			
		-		
	Cancel OK	- 1		
	Gi9			
	Gi10			
Total 28 10/page - 1 2 3 >	Go to page 1			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie Rcycc	test123 > NBS3100 0	Operation succeeded.	English ~ 〇Ruijie Cloud 腱Download App - 용 Wiz	zard [] Log Out
ි Home ඒ VLAN	Port Protection The protected ports are isolated from each other.			
🖫 Monitor 🗸 🗸	Port List		4	Batch Edit
Ø Ports ~	Port		Action	
L2 Multicast	Gi1			
Security ^	GI2			
DHCP Snooping	G13			
Storm Control	GI4			
ACL	GI5			
Port Protection	Gi6			
IP-MAC Binding	G17			
IP Source Guard	GI8			
Anti-ARP Spoofing	G19			
色 Advanced 🗸	Gi10			
② Diagnostics ~	Total 28 10/page v (1 2 3) Go to pa	age 1		

Alternatively, click the toggle button in the Action column. In the displayed confirmation box, click OK.

Port Protection The protected ports are isolated from each other.				
Port List				& Batch Edit
	Port		Action	
	Git			
	GI2			
	GI3			
	Gi4	×		
	GI5	Are you sure you want to Enable port protection on port Gi2?		
	G16	Cancel OK		
	GI7			
	Gi8			
	G19			
	Gi10			
Total 28 10/page	Go to page 1			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruijie #Rcycc	test123 → NB53100 0	 Operation succeeded. 	English ~ 🛆 Ruijie Cloud 📓 Download App 🛛 🖨 Utzard 🕞 Log Ou
δ ⁰ δ Home	Port Protection The protected ports are isolated from each other.		
i 카 VLAN 또 Monitor · ·	Port List		4. Batch Edit
⊕ Ports ~		Port	Action
C L2 Multicast		Gi1	
Security		Gi2	
DHCR Spooping		Gi3	
Sterm Centrel		G14	
ACI		GI5	
ACL		Gi6	
Port Protection		G17	
IP-MAC Binding		Gi8	
IP Source Guard		G19	
Anti-ARP Spoofing		Gi10	
🖻 Advanced 🛛 🗸			
Diagnostics	Total 28 10/page V 1 2 3 V	Go to page 1	

4.3.5.5 IP-MAC Binding

IP-MAC Binding checks both the source IP addresses and MAC addresses of IP packets, and packets not matching any entry in the address binding list will be filtered.

IP-MAC Binding takes effect prior to ACL, but it has the same privilege with IP Source Guard. The packets matching either configuration will be allowed to pass through.

Ruíjie #Rcycc	test123 > NB53100 0		English 🗸 🛆 Ruijie Cloud 🏼 🗱 Download App 🛭 🔶 Wizard 🕞 Log Ot
운 Home 류 VLAN	IP-MAC Binding Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP pace Description: IP-MAC Binding checks both the source IP addresses and MAC addresses and IP addresses add	kets, and packets not matching any entry in the address binding list will be filtered.	
型 Monitor ~	Prode: IP-MAC Binding	Search by IP Address v	Q Search & Add Delete Selected
L2 Multicast	Up to 500 entries can be added.	MAC Port	Action
Security ^		No Data	
Storm Control	Total 0 10/page v < 1 > Go to page 1		
Port Protection			
IP Source Guard Anti-ARP Spoofing			
🖹 Advanced 🗸			
④ Diagnostics · · · · · · · · · · · · · · · · · · ·			

Click Add, select ports and configure parameters, and click OK.

~	c .	
Con	figur	ation

IP-MAC Binding Description: IP-MAC Binding checks both the source IP Note: IP-MAC Binding takes effect prior to ACL, but it IP-MAC Binding	addresses and MAC addres	sses of IP packets, and packets not matching ar	iy entry in the address binding list $ imes$	will be filtered. ough.	O. Search 2. Add Delete Selected
	IP	192.168.10.6	0		
Up to 500 entries can be added.	MAC	00:01:6C:06:A6:29			Action
Total 0 10/page 🗸 🤇 1 > Ge to page	* Select Port: Available Un	available Aggregate n Uplink 9 11 13 15 17 19 21 23	Copper Fiber		
	2 4 6 8 Note: You can click and	10 12 14 16 18 20 22 24 I drag to select one or more ports. Selec	25 26 27 28 t All Inverse Deselect		

The message "Operation succeeded." is displayed, and the IP-MAC Binding list is updated.

Ruijie &Rcycc	test123 > NB53100 0	Operation succeeded.	English	 〇 Ruljie Cloud 認Download App 合 Wizard 日 Log Ou
යි Home ඒ VLAN	IP-MAC Binding Description: IP-MAC Binding checks both the source IP addresses and MAC add Note: IP-MAC Binding takes effect prior to ACL, but it has the same privilege with	fresses of IP packets, and packets not matching any entry in th IP Source Guard. The packet matching either configuration	the address binding list will be filtered. n will be allowed to pass through.	
또 Monitor ~	IP-MAC Binding	Search by IP Address	s v	Q Search & Add
Ports	Up to 500 entries can be added.			
Security ^	q	MAC	Port	Action
DHCP Snooping	192.168.10.6	00:01:6C:06:A6:29	Gi1	Edit Delete
Storm Control	Total 1 10/page \checkmark < 1 > Go to page 1			
Port Protection				
IP-MAC Binding				

Alternatively, click Edit in the Action column, configure parameters, and click OK.

Note: IP-MAC Binding takes effect prior to ACL, but it	Edit × ough.	O Saweb A Add D Delete Selected
Up to 500 entries can be added.	IP 192.168.10.100 ⑦	
91	MAC 00:01:6C:06:A6:29	Action
192.168.10.6	Select Port: Available Vnavailable Vnavailable Vnavailable	Edit Delete
Total 1 10/page > 1 > Go to page	1 3 5 7 9 11 13 15 17 19 21 23	
	2 4 6 8 10 12 14 16 18 20 22 24 25 26 27 28	
	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	
	Cancel	

The message "Operation succeeded." is displayed, and the IP-MAC Binding list is updated.

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ເດັນເງົາເອ ເສີດຊາວດ	test123 > NBS3100 0		Operation succeeded.		English ~	Cloud Cloud	讀Download App	🕀 Wizard	🕞 Log Out
옮 Home									
문 VLAN	IP-MAC Binding Description: IP-MAC Binding Note: IP-MAC Binding takes	g checks both the source IP addresses and MAC addr effect prior to ACL, but it has the same privilege with	esses of IP packets, and packets n IP Source Guard. The packet m	not matching any entry in the address binding list will be filtered. atching either configuration will be allowed to pass through.					
문 Monitor 🗸 🗸	IP-MAC Binding			Search by IP Address		Q Search	& Add	Delete Sele	cted
Ports ~	Up to 500 entries can be added	L.							
 L2 Multicast 		IP	MAC	Port			Action		
⊘ Security ^	192	2.168.10.100	00:01:6C:06:A6:29	Gi1			Edit Delete		
DHCP Snooping									
Storm Control	Total 1 10/page 🗸 🤇	1 > Go to page 1							
ACL									
Port Protection									
IP-MAC Binding									

Select a search type (Search by IP Address, Search by MAC, or Search by Port) from the dropdown list, enter the term to be searched for, and click Search.

Search by IP Address

IP-MAC Binding Example 10 Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP packets, and packets not matching any entry in the address binding list will be filtered. Note: IP-MAC Binding takes effect prior to ACL, but it has the same privilege with IP Source Guard. The packet matching either configuration will be allowed to pass through.					
IP-MAC Bind	IP-MAC Binding Search by IP Address 🗸 192.168.10.200 Q Search & Add 🖻 Delete Selected				
Up to 500 entr	ies can be added.				
	IP	MAC	Port	Action	
	192.168.10.200	30:0d:9e:60:ef:73	GI2	Edit Delete	
Total 1 10/page V C 1 > Go to page 1					

Search by MAC

IP-MAC Binding Description: IP-MAC Binding checks both the source IP addresses and MAC addresses of IP packets, and packets not matching any entry in the address binding list will be filtered. Note: IP-MAC Binding takes effect prior to ACL, but it has the same privilege with IP Source Guard. The packet matching either configuration will be allowed to pass through.					
IP-MAC Bind	ding	Search by MAC	v 00:01:6C:06:A6:29	Q Search & Add Delete Selected	
Up to 500 ent	ries can be added.				
	IP	MAC	Port	Action	
	192.168.10.100	00:01:6C:06:A6:29	Gi1	Edit Delete	
Total 1 10/page ∨ < 1 > Go to page 1					

Search by Port

IP-MAC Binding F-MAC Binding checks both the source IP addresses and MAC addresses of IP packets, and packets not matching any entry in the address binding list will be filtered. Note: IP-MAC Binding takes effect prior to ACL, but it has the same privilege with IP Source Guard. The packet matching either configuration will be allowed to pass through.					
IP-MAC Bind	ding	Search by Port	Gi2	✓ Q Search	
Up to 500 entr	ries can be added.				
	IP	MAC	Port	Action	
	192.168.10.200	30:0d:9e:60:ef:73	GI2	Edit Delete	
Total 1 10/page -> < 1 > Go to page 1					

4.3.5.6 IP Source Guard

Enable IP Source Guard to check the IP fields or both IP and MAC fields of packets from the untrusted ports. Packets not matching any entry in the address binding list will be filtered. It can prevent IP spoofing attacks when a host tries to spoof and use the IP address of another host.

1.1 Basic Settings

IP Source Guard should be enabled together with DHCP Snooping. Otherwise, IP packet forwarding may be affected.

Ruíjie &Rcycc	test123 > NBS3100 Ø		English ~	合 Ruijie Cloud
응 Home	Basic Settings Excluded VLAN Binding List			
P Monitor ~	Basic Settings	r both IP and MAC fields of packets from untrusted ports. Packets no	at matching any entry in the address binding list will be filtered. It ca	n prevent IP spoofing attacks when a host tries to spoof
Ports ~	Port List			🖉 Batch Edit
Security ^	Port	Enable	Rule	Action
DHCP Snooping	GI1	Disabled	IP	Edit
Storm Control	Gi2	Disabled	IÞ	Edit
ACL	GI3	Disabled	ĮP	Edit
IP-MAC Binding	Gi4	Disabled	IP	Edit
IP Source Guard	GI5	Disabled	JP	Edit
Anti-ARP Spoofing	GI6	Disabled	IP	Edit
🔁 Advanced 🛛 🗠	GI7	Disabled	JP	Edit
Diagnostics `` ` ` `` ` ` ` ` ` ` ` `	GI8	Disabled	IP	Edit
System 🗸	GI9	Disabled	IP	Edit
	GIIO	Disabled	Ib	Edit

Click Batch Edit, select ports, and configure parameters, and click OK.

Basic Settings Excluded VLAN Binding List		
Basic Settings Description: Enable IP Source Guard to check the IP for and use the IP address of another host. Note: IP Source Guard should be enabled together with	Edit	$^{ imes}$ nding list will be filtered. It can prevent IP spoofing attacks when a host tries to spoof
Port List	Enabled ~	n 🖉 Batch Edit
Port	* Select Port:	Action
Gi1	Available 💼 Unavailable 👘 Aggregate 👘 Uplink 💼 Copper 📷 Fiber	Edit
GI2	1 3 5 7 9 11 13 15 17 19 21 23	Edit
GI3		Edit
Gi4	2 4 6 8 10 12 14 16 18 20 22 24 25 26 27 28 Note: You can click and drag to select one or more ports. Select All Inverse Deselect	Edit
Gi5		Edit
Gi6	Cancel OK	Edit
GI7	Disabled	iP Edit
Gi8	Disabled	IP Edit
Gi9	Disabled	IP Edit
Gi10	Disabled	IP Edit

The message "Operation succeeded." is displayed, and the port list is updated.

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Rujje	test123 > NBS3100 0	Operation succeeded.	Englis	h 〜 〇Ruijie Cloud 離Download App	∲ Wizard 🕞 Log (
중 Home	Basic Settings Excluded VLAN Binding List				
图 Monitor Y	Basic Settings Description: Enable IP Source Guard to check the IP fields or both IP and MAC fields and use the IP address of another host.	elds of packets from untrusted ports. Packets not matching any	entry in the address binding list will be filtered.	It can prevent IP spoofing attacks when a host	tries to spoof
Ports ~	Note: IP Source Guard should be enabled together with DHCP Snooping. Otherw	ise, IP packet forwarding may be affected.			// Patch Edit
L2 Multicast	POILLISE				E batch cuit
⊘ Security ^	Port	Enable	Rule	Action	
DHCP Snooping	GI1	Enabled	IP	Edit	
Storm Control	GI2	Disabled	IP	Edit	
ACL	Gi3	Enabled	IP	Edit	
IP-MAC Binding	Gi4	Disabled	IP	Edit	
IP Source Guard	GI5	Disabled	IP	Edit	
Anti-ARP Spoofing	Giố	Disabled	IP	Edit	
🖻 Advanced 🛛 🗸	Gi7	Disabled	IP	Edit	
Diagnostics V	Gi8	Disabled	IP	Edit	
🔮 System 🗸 🗸	Gi9	Disabled	IP	Edit	
	Gi10	Disabled	IP	Edit	
« Collapse	Total 28 10/name V C 1 2 3 > Go to name 1				

Alternatively, click Edit in the Action column, configure parameters, and click OK.

Basic Settings Excluded VLAN	Binding List				
Basic Settings Description: Enable IP Source and use the IP address of ano Note: IP Source Guard should	Guard to check the IP five Edit ther host. I be enabled together with	Enable	×	nding list will be filtered. It can prevent IP spoofing attacks when a ho	ist tries to spoof
Port List		Rule IP	~		🖉 Batch Edit
Port				Action	
Gi1			Cancel	Edit	
Gi2		Disabled	IP	Edit	
Gi3		Enabled	IP	Edit	
GI4		Disabled	IP	Edit	
GI5		Disabled	IP	Edit	
GI6		Disabled	IP	Edit	
Gi7		Disabled	IP	Edit	
Gi8		Disabled	IP	Edit	
Gi9		Disabled	IP	Edit	
Gi10		Disabled	IP	Edit	

The message "Operation succeeded." is displayed, and the port list is updated.

Configuration

Ruíjie #Rcycc	test123 > NBS3100 0	Operation succeeded.	Eng	lish ∽ Ruijie Cloud 📓 Download App 🔮 Wizard 🕞 Log C
음 Home	Basic Settings Excluded VLAN Binding List			
함 VLAN 문 Monitor · ·	Basic Settings Description: Enable IP Source Guard to check the IP fields or both IP and MAC fie and use the IP address of another host.	lds of packets from untrusted ports. Packets not matching a	any entry in the address binding list will be filtere	d. It can prevent IP spoofing attacks when a host tries to spoof
Ø Ports ~	Note: IP Source Guard should be enabled together with DHCP Snooping. Otherwing	se, IP packet forwarding may be affected.		
L2 Multicast	Port List			🖉 Batch Edit
⊘ Security ^	Port	Enable	Rule	Action
DHCP Snooping	Gi1	Enabled	IP	Edit
Storm Control	Gi2	Enabled	IP	Edit
ACL Port Protection	Gi3	Enabled	IP	Edit
IP-MAC Binding	Gi4	Disabled	IP	Edit
IP Source Guard	GI5	Disabled	IP	Edit
Anti-ARP Spoofing	Gi6	Disabled	IP	Edit
🖻 Advanced 🛛 🗠	Gi7	Disabled	IP	Edit
Diagnostics `` ` ` ` ` ` ` ` ` ` `	GI8	Disabled	IP	Edit
System ∨	GI9	Disabled	IP	Edit
	Gi10	Disabled	IP	Edit

1.2 Excluded VLAN

Packets within this VLAN are allowed to pass the port without checking or filtering.

Excluded VLAN can be specified only after IP Source Guard is enabled on the port.

Ruijie Rcycc	test123 > NBS3100 0		English 🗸 🛆 Ruijie Cloud 📓 Download App 🔮 Wizard 🔂 Log O
음 Home	Basic Settings Excluded VLAN Binding List		
图 Monitor ~	Excluded VLAN Conception: Packets within this VLAN are allowed to pass the port without checking or filtering. Note: Excluded VLAN can be specified only after IP Source Guard Is enabled on a port.		
Ports ~	VLAN List		+ Add 🛛 🖻 Delete Selected
L2 Multicast	• Up to 64 entries can be added.		
⊘ Security ^	VLAN ID	Port	Action
DHCP Snooping Storm Control		No Data	
ACL	Total 0 10/page ~ < 1 > Go to page 1		
Port Protection			
IP-MAC Binding			
IP Source Guard			
户 Advanced			
Diagnostics			
🔆 System 🗸			
Collapse			

Click Add, select ports and configure parameters, and click OK.

Basic Settings Excluded VLAN Binding List		
Excluded VLAN Description: Packets within this VLAN are allowed to p Note: Excluded VLAN can be specified only after IP So	Add	
VLAN List	* VLAN ID 6 + Add	Delete Selected
Up to 64 entries can be added.	* Select Port: Available Duravailable Aggregate in Uplink in Copper in Fiber	
Total 0 10/carp V 1 2 Go to page	Action	
Lonuxo IIñ haña	Note: You can click and drag to select one or more ports. Select All Inverse Deselect Cancel OK	

The message "Operation succeeded." is displayed, and the VLAN list is updated.

Ruijie &Rcycc	test123 > NBS3100 0	Operation succeeded.	English 🗸 🛆 Ruijie Cloud	説Download App 合 Wizard 日 Log Out
🖧 Home	Basic Settings Excluded VLAN Binding List			
을 VLAN	Excluded VLAN			
쪂 Monitor 🗸	Description: Packets within this VLAN are allowed to pass the port without che Note: Excluded VLAN can be specified only after IP Source Guard is enabled or	cking or filtering. 1 a port.		
Ports ~	VLAN List			+ Add Delete Selected
 L2 Multicast 	Up to 64 entries can be added.			
OHCP Spooning	VLAN ID	Port	Ą	ction
Storm Control	6	Gi1-3	Edit	Delete
ACL	Total 1 10/page < 1 > Go to page 1			
Port Protection				
IP-MAC Binding				
IP Source Guard Anti-ARP Spoofing				

Alternatively, click Edit in the Action column, configure parameters, and click OK.

Basic Settings Excluded VLAN Binding List			
Excluded VLAN Description: Packets within this VLAN are allowed to p Note: Excluded VLAN can be specified only after IP So	Edit	×	
VLAN List	* VLAN ID 6		+ Add
Up to 64 entries can be added.	* Select Port: Available 🏦 Unavailable 👘 Aggregate 🛐 Uplink: 🏦 Copper 🔛 Fiber		
ULAN ID	1 3 5 7 9 11 13 15 17 19 21 23		Action
6			Edit Delete
Total 1 10/page V C 1 O Go to page	2 4 6 8 10 12 14 16 18 20 22 24 25 26 27 28		
	Note: You can click and drag to select one or more ports. Select All Inverse Deselect		
	Cancel OK		
		_	

The message "Operation succeeded." is displayed, and the VLAN list is updated.

Configuration

ເຂເບເງົາຍ ເສັດຊາວດ	test123 > NBS3100 0	Operation succeeded.	English 🗸 🛆 Ruijie Clor	ud 鬷Download App _ 会 Wizard [금 Log Out
움 Home	Basic Settings Excluded VLAN Binding List			
≝ ^p VLAN	Excluded VI AN			
쮶 Monitor 🗸	Description: Packets within this VLAN are allowed to pass the port without check Note: Excluded VLAN can be specified only after IP Source Guard is enabled on	king or filtering. a port.		
Ø Ports	VLAN List			+ Add Delete Selected
L2 Multicast	Up to 64 entries can be added.			
Security ^	VLAN ID	Port		Action
DHCP Snooping Storm Control	6	Gi1) E	dit Delete
ACL	Total 1 10/page ~ < 1 > Go to page 1			
Port Protection				
IP-MAC Binding				
IP Source Guard				
Anti-ARP Spoofing				

1.3 Binding List

The entries come from dynamic learning of DHCP Snooping.

Ruíjie Rcycc	test123 > NB53100 •			English 🗸 🛆 Ruijie Cloud	識Download App	출 Wizard ☐ Log Ou
්ති Home	Basic Settings Excluded VLAN Binding List					
딸 Monitor ~	Binding List Description: The entries come from dynamic learning of DHCP Snooping.					
Ø Ports	Binding List		Search by IP Address		Q Search	O Refresh
L2 Multicast	Up to 1280 entries can be added.					
⊘ Security	IP MAC	Port	VLAN ID	Status	Ri	ıle
DHCP Snooping		No Data				
Storm Control ACL	Total 0 10/page ~ (1 > Go to page 1					
Port Protection						
IP-MAC Binding						
Anti-ARP Spoofing						
台 Advanced 🗸						
Ø Diagnostics						
System 🗸						
Collapse						

Select a search type (Search by IP Address, Search by MAC, Search by VLAN or Search by Port) from the dropdown list, enter the term to be searched for, and click Search.

Basic Settings Excluded VLAN B	inding List					
Binding List Description: The entries come from a	dynamic learning of DHCP Snooping.					
Binding List				Search by IP Address		Q Search Q Refresh
Up to 1280 entries can be added.				Search by IP Address		
IP	MAC	Port		Search by MAC Search by VLAN	Status	Rule
			No Data	Search by Port		
Total 0 10/page \vee < 1 >	Go to page 1					

4.3.5.7 Anti-ARP Spoofing

Anti-ARP spoofing prevents hosts from spoofing the source IP address of the ARP packets to be the IP address of the gateway.

Anti-ARP Spoofing is generally configured on a downlink port.

Ruíjie Rcycc	test123_1_Auto > NB55200	English ~ 〇Ruijie Cloud 識Download Ap	p 🕀 Wizard 🕞 Log O
and Home	Anti-ARP Spoofing		
ś? VLAN	Description: Anti-ARP Spoofing prevents hosts from spoofing the source IP address of the ARP packets to be the IP address of the gate Note: Anti-ARP Spoofing is generally configured on a downlink port.	way.	
😨 Monitor 🛛 🗸	Anti-ARP Spoofing	Z. Add	Delete Selected
Ø Ports	Up to 256 entries can be added.		
L2 Multicast	IP Port	Action	
L3 Interfaces	No Data		
Security ~			
DHCP Snooping	Total 0 10/page ··· C 1 · Go to page 1		
Storm Control			
ACL			
Port Protection			
IP-MAC Binding			
IP Source Guard			
Anti-ARP Spoofing			
훕 Advanced 🛛 🗠			
Diagnostics			
奎 System 🗠			
«Collapse			

Click Add, select ports and configure parameters, and click OK.

Anti-ARP Spoofing Description: Anti-ARP Spoofing prevents hosts from sp Note: Anti-ARP Spoofing is generally configured on a Anti-ARP Spoofing	cofing the source IP address of the ARP packets to be the IP address of the gateway. Add	
Up to 255 entries can be added.	* IP 192.168.8.10	
IP IP	* Select Port:	Action
Total 0 10/page - C 1 - Go to page	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23 17 19 21 23 17 19 21 23 17 19 21 23 12 14 16 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 18 20 22 24 25 26	
	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	
	Cancel	

The message "Operation succeeded." is displayed, and the Anti-ARP Spoofing list is updated.

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Ruíjie Reycc	test123_1_Auto > NBS5200 0	Operation succeeded.	English ~ _ CRuijie Cloud 📓Download App - 🕭 Wizard []-Log Out
🖧 Home	Anti-ARP Spoofing		
중키 VLAN	Description: Anti-ARP Spoofing prevents hosts from spoofing the source if Note: Anti-ARP Spoofing is generally configured on a downlink port.	² address of the ARP packets to be the IP address of the gateway.	
문 Monitor 🗸	Anti-ARP Spoofing		
Ø Ports	Up to 256 entries can be added.		
L2 Multicast	. IP	Port	Action
L3 Interfaces	192.168.8.10	Gi1,Gi3	Edit Delete
Security ^			
DHCP Snooping	Total 1 10/page < 1 So to page 1		
Storm Control			
ACL			
Port Protection			
IP-MAC Binding			
IP Source Guard			
Anti-ARP Spoofing			

Alternatively, click Edit in the Action column, configure parameters, and click OK.

Anti-ARP Spoofing Description: Anti-ARP Spoofing prevents hosts from s Note: Anti-ARP Spoofing is generally configured on a	boofing the source IP address of the ARP packets to be the IP address of the gateway.	
Anti-ARP Spoofing	Edit ×	🖉 Add 🛛 🗇 Delete Selected
Up to 256 entries can be added.	* Select Port:	Action
192,168,8.10 Total 1 10/page 1 Go to page		Latt Velete
	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	
	Cancel OK	

The message "Operation succeeded." is displayed, and the Anti-ARP Spoofing list is updated.

Ruíjie Rcycc	test123_1_Auto > NBS5200 0	Operation succeeded.	English 🗸 🛆 Ruljie Cloud 🛛 📓 Download App 🔶 Wizard 🕞 Log Ou
& Home	Anti-ARP Spoofing	m sensition the source ID address of the ADD assists to be the ID address of the astronom	
≝≝ VLAN	Note: Anti-ARP Spoofing is generally configured on	a downlink port.	
🕾 Monitor 🗸	Anti-ARP Spoofing		2 Add 🕥 Delete Selected
Ports ~	Up to 256 entries can be added.		
 L2 Multicast 	D IP	Port	Action
L3 Interfaces	192.168.8.10	Gil	Edit Delete
Security ^	Total 1 10/page ~ C 1 > Go to pr	ge 1	
Storm Control			
ACL			
IP-MAC Binding			
IP Source Guard			
Anti-ARP Spoofing			

4.3.6 Advanced

The Advanced module includes STP, LLDP, RLDP, Local DNS and Voice VLAN.

4.3.6.1 STP

The Spanning Tree Protocol (STP) is a layer-2 management protocol that eliminates layer-2 loops by selectively blocking redundant links in the network. It also provides the link backup function.

Ruijie	test123_1_Auto > NB55200 ●	English ~	Cloud	1 Download App	🕀 Wizard	🕞 Log Ou
్రి Home	STD Sattings					
≝ [₽] VLAN						
🕾 Monitor 🗸	1 Note: Enabling STP or changing the STP mode will initiate a new session. Please do not refresh the page.					
@ Ports ∨	STP:					
L2 Multicast						
L3 Interfaces						
⊘ Security ~						
🖻 Advanced 🗠 🗠						
STP						
LLDP						
RLDP						
Local DNS						
Voice VLAN						
Diagnostics						
🕃 System 🖂						

1.1 STP Settings

Enable STP, set global STP parameters, and click Save.

Rujje	test123_1_Auto > NBS5	5200 💿			English	 → Ruijie Cloud 	2 Download App	🕀 Wizard	
_{ඒර්} Home									
중 VLAN	STP Settings								
图 Monitor ~	Note: Enabling S	TP or changing the STP mode will initiate	a new session. Please do not refresh the page.						
Ø Ports	STP:								
L2 Multicast	* Priority:	32768		* Hello Time:	2	seconds			
L3 Interfaces	* Max Age:	20	seconds	* Forward Delay:	15	seconds			
⊘ Security ~	* Recovery Time:	30	seconds O	STP Mode:	RSTP ~				
合 Advanced 个		4 Editing							
STP									
LLDP									
RLDP									
Local DNS									
Voice VLAN									
Diagnostics									
書 System ~									

The message "Operation succeeded." is displayed which means that the parameters of STP have been dilivered successfully, and then, the page of STP management will appear.

Reyee Cookbook

Ruijie #Rcy	cc	test123_1_Auto > NBS5	200 🛛		Operation succeeded.		Englist)~ 〇Ruijie Cloud 讃Download Ap	np 🔮 Wizard 📑 Log O
é⁵a Home		670 C 101-10							
🖉 VLAN		STP Settings STP N	Aanagement						
😤 Monitor	-	Note: Enabling ST	TP or changing the STP mode will initiate	a new session. Please	e do not refresh the page.				
Ø Ports	×	STP:							
L2 Multicast		* Priority:	32768 ~			* Hello Time:	2	seconds	
L3 Interfaces		* Max Age:	20	seconds		* Forward Delay:	15	seconds	
⊘ Security	~	* Recovery Time:	30	seconds ()		STP Mode:	RSTP		
Advanced STP	*	0	Save						
RLDP									
Local DNS									
Voice VLAN									
@ Diagnostics	~								
😤 System	×								
Collapse									

Enabling STP or changing the STP mode will initiate a new session. Please do not refresh the page.

1.2 STP Management

Ruíjie	test123_1_Auto > NBS5200	•					English ~	合 Ruijie Cloud 調Down	load App 🔮 Wizard 🕞 Log C			
🖧 Home	STP Settings STP Man	agement										
6 ^문 VLAN	<i>i</i> STP Port Settings Tip: It is recommend	Tip: It is recommended to enable the port connected to a PC with Port Fast.										
🗄 Monitor 🗸 🗸	Port List							01	Refresh 🖉 🖉 Batch Edit			
Ports					Link	Status						
 L2 Multicast 	Port	Role	Status	Priority	Config Status	Actual Status	BPDU Guard	Port Fast	Action			
L3 Interfaces	GI11				Member p	port of Ag2.						
⊘ Security ~	GI12				Member p	port of Ag2.						
🖻 Advanced	GI13	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
STP	Gi14	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
LLDP	GI15	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
Local DNS	Gi16	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
Voice VLAN	GI17	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
Diagnostics V	Gi18 🕇	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit			
:⊕- System ∨	Gi19	disable	disable	128	Auto	Shared	Disable	Disable	Edit			
	Gi20	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit			
	Total 30 10/page ~	< 1 2 3 >	Go to page 2									

Click **Batch Edit**, select ports, and configure parameters.

Reyee Cookbook

Ruijie	test123_1_Auto > NBS5200 (•					English ~	CRuijie Cloud I Mownload Ap	o ∲Wizard ⊡Log (
💩 Home	STP Settings STP Manag	ement							
🖉 VLAN	Tip: It is recommended	to enable the port connected				_			
图 Monitor ~	Port List		Batch Edit			×		© Refresh	& Batch Edit
Ø Ports			Port Fast:						
L2 Multicast	Port	Role	BPDU Guard:				BPDU Guard	Port Fast	Action
L3 Interfaces	Gi11		Link Status: Auto						
⊘ Security ~	Gi12		* Priority: 128						
🖻 Advanced	GH3	disable	* Select Port:				Disable	Disable	Edit
STP	Gi14	disable	Available 💼 Unavailable	Aggrega	te 🚺 Uplink 📗	Copper 🔛 Fiber	Disable	Disable	Edit
LLDP	GH5	disable	1 3 5 7 9 11	13 15 17 19 21	23 17 19 21	23	Disable	Disable	Edit
Local DNS	Gi16	disable					Disable	Disable	Edit
Voice VLAN	GI17	disable	Note: You can click and drag to se	elect one or more ports.	Select All	Inverse Deselect	Disable	Disable	Edit
② Diagnostics ~ ~	Gi18 t	designated					Disable	Disable	Edit
奎 System 👋	GI19	disable			Cancel	ОК	Disable	Disable	Edit
		designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
# College	Total 30 10/page	c 1 2 3 >	Go to page 2						

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie I ®Rcyc		test123_1_Auto > NBS5200	•		Operation succeeded.			English 🗸 🖸	Ruijie Cloud 🛛 🎆 Download Aj	op 🔮 Wizard 🕒 Log C
🖧 Home		STP Settings STP Mana	agement							
음 VLAN		(i) STP Port Settings Tip: It is recommended	ed to enable the port connecte	d to a PC with Port Fast.						
Monitor	~	Port List							© Refresh	🖉 Batch Edit
Ports	~					Link	Status			
 L2 Multicast 		Port	Role	Status	Priority	Config Status	Actual Status	BPDU Guard	Port Fast	Action
Ull L3 Interfaces		Gi11	Gi11 Member port of Ag2.							
Security	~	GI12				Member p	port of Ag2.			
🖹 Advanced	^	GI13	disable	disable	128	Auto	Shared	Enable	Enable	Edit
STP		Gi14	disable	disable	128	Auto	Shared	Enable	Enable	Edit
LLDP		Gi15	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Local DNS		Gi16	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Voice VLAN		GI17	disable	disable	128	Auto	Shared	Disable	Disable	Edit
② Diagnostics	~	Gi18 🕇	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
-a- -a- -a- System	~	Gi19	disable	disable	128	Auto	Shared	Disable	Disable	Edit
		Gi20	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
		Total 30 10/page \vee	< 1 2 3 >	Go to page 2						
Collapse										

Alternatively, click **Edit** in the Action column, configure parameters, and click **OK**.

Reyee Cookbook

Ruijie IRcycc	test123_1_Auto > (NBS5200 Ø					English ~		vpp . ∯ Wizard [] Log O
් Home	STP Settings	STP Management							
≝ ⁰ VLAN	STP Port S Tip: It is rec	ettings ommended to enable the port connected	0			_			
徑 Monitor 🗠	Port List		Port:Gi15			×		© Refres	h 🍂 Batch Edit
Ports ~			Port Fast:						
L2 Multicast	Port	Role	BPDU Guard:				BPDU Guard	Port Fast	Action
L3 Interfaces	Gi11		Link Status:	Auto ~					
⊘ Security ~	Gi12		* Priority:	128 ~					
台 Advanced	GI13	disable					Enable	Enable	Edit
STP	Gi14	disable			Cancel	ОК	Enable	Enable	Edit
LLDP	Gi15	disable	disable	128	Auto	Shared	Disable	Disable	
Local DNS	Gi16	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Voice VLAN	GI17	disable	disable	128	Auto	Shared	Disable	Disable	Edit
@ Diagnostics ~ ~	Gi18 t	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
≇ System ∽	Gi19	disable	disable	128	Auto	Shared	Disable	Disable	Edit
		designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
«Collaose	Total 30 10/pag	jé ↔ < 1 2 3 →	Go to page 2						

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie I & Reyce	test123_1_Auto > NBS5200	0		Operation succeeded.			English 🗸 🛆	Ruijie Cloud 🛛 🎆 Download Aj	əp 🔄 Wizard 🕞 Log O
용 Home	STP Settings STP Man	agement							
중 VLAN	Tip: It is recommended	ed to enable the port connecte	d to a PC with Port Fast.						
딸 Monitor 🛛 🗠	Port List							C Refresh	🖉 Batch Edit
OPorts					Link	Status			
 L2 Multicast 	Port	Role	Status	Priority	Config Status	Actual Status	BPDU Guard	Port Fast	Action
L3 Interfaces	Gi11				Member p	port of Ag2.			
😔 Security 🗸 🗸	Gi12				Member p	port of Ag2.			
음 Advanced ^	Gi13	disable	disable	128	Auto	Shared	Enable	Enable	Edit
STP	Gi14	disable	disable	128	Auto	Shared	Enable	Enable	Edit
LLDP	Gi15	disable	disable	128	Auto	Shared	Enable	Enable	Edit
Local DNS	Gi16	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Voice VLAN	Gi17	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Diagnostics	Gi18 🕇	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
📲 System 🗸	Gi19	disable	disable	128	Auto	Shared	Disable	Disable	Edit
	Gi20	designated	forwarding	128	Auto	Point-to-Point	Disable	Disable	Edit
	Total 30 10/page 🖂	< 1 2 3 >	Go to page 2						
« Collapse									

It is recommended to enable Port Fast on the port connected to a PC.

When there is a loop occur, the port having a loop will be blocked, which could be seen in the STP Management page.

Port List							Q Refresh	🖉 Batch Edit
Port	Role	Status	Priority	Link S Config Status	Status Actual Status	BPDU Guard	Port Fast	Action
Gi11								
Gi12				Member p	ort of Ag2.			
Gi13	disable	disable	128	Auto	Shared	Enable	Enable	Edit
Gi14	disable	disable	128	Auto	Shared	Enable	Enable	Edit
Gi15	disable	disable	128	Auto	Shared	Enable	Enable	Edit
Gi16	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Gi17	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Gi18	designated	blocking	128	Auto	Point-to-Point	Disable	Disable	Edit
Gi19	disable	disable	128	Auto	Shared	Disable	Disable	Edit
Gi20	designated	blocking	128	Auto	Point-to-Point	Disable	Disable	Edit

4.3.6.2 LLDP

The Link Layer Discovery Protocol (LLDP) is defined by IEEE 802.1AB. LLDP can discover devices and detect topology changes. With LLDP, the eWeb management system can learn the topological connection status, such as ports of the device that are connected to other devices, port rates at both ends of a link, and duplex mode matching status. An administrator can locate and troubleshoot faults quickly based on the preceding information.

1.1 LLDP Settings

Ruíjie #Rcycc	test123_1_Auto > NBSS200 0	English ~	Cloud Ruijie	Download App	🔮 Wizard	🕒 Log Out
🖧 Home	11DD Settions					
중 VLAN	LUF settings					
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Ø Ports						
L2 Multicast						
L3 Interfaces						
⊘ Security ~						
台 Advanced 🔷 🔿						
STP						
LLDP						
RLDP						
Local DNS						
Voice VLAN						
Diagnostics						
🗄 System 🗸						

Enable LLDP, configure related parameters, and click Save.

Reyee Cookbook

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్లి Home	1100 Company 1100 A	Annual Upplick								
를 VLAN		an analogo see management see ma								
图 Monitor ~	LLDP:									
Ø Ports	* Hold Multiplier:	4		* Reinitialization Delay:	2	seconds				
L2 Multicast	* Transmit Interval:	30	seconds	* Forward Delay:	2	seconds				
L3 Interfaces	* Fast Count:	3								
⊘ Security ~		Save								
윰 Advanced ^										
STP										
LLDP										
RLDP										
Local DNS										
Voice VLAN										
@ Diagnostics ~										
🔮 System 🗸										

When LLDP is enabled, the pages of LLDP Management and LLDP Info will be displayed.

1.2 LLDP Management

Ruijie I Rcycc	test123_1_Auto > NBS5200 @			English 🗸 🖄 Ruijie Clou	ud 誠Download App
ි Home	LLDP Settings LLDP Management	LLDP Info			
🔄 Monitor 🗸	Port List				& Batch Edit
	Port	Send LLDPDU	Receive LLDPDU	LLDP-MED	Action
L2 Multicast	Gi1	Enable	Enable	Enable	Edit
L3 Interfaces	GI2	Enable	Enable	Enable	Edit
⊘ Security ~	GI3	Enable	Enable	Enable	Edit
色 Advanced	GI4	Enable	Enable	Enable	Edit
STP	GI5	Enable	Enable	Enable	Edit
LLDP	Gi6	Enable	Enable	Enable	Edit
Local DNS	Gi7	Enable	Enable	Enable	Edit
Voice VLAN	Gi8	Enable	Enable	Enable	Edit
@ Diagnostics ~	Gi9	Enable	Enable	Enable	Edit
😤 System 🗸 🗸	Gi10	Enable	Enable	Enable	Edit
	Total 28 10/page ~ 1 :	2 3 > Go to page 1			
« Collapse					

Click **Batch Edit**, select ports, and configure parameters.

Reyee Cookbook

Rujje Rcycc	test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruijie Cloud 🛛 🔡 Down	oad App 🔮 Wizard 🕞 Log Oi
🖧 Home 🗷 VLAN	LLDP Settings LLDP Management LLDP Info				
田 Monitor 🔗	Port List	Batch Edit	×		🖉 Batch Edit
Ø Ports	Port	Send LLDPDU:		LLDP-MED	Action
L2 Multicast	GII	Receive LLDPDU:		Enable	Edit
L3 Interfaces	Gi2	LLDP-MED:		Enable	Edit
⊘ Security ~	GI3	* Select Port		Enable	Edit
🛱 Advanced 🔷 🗠	GI4	Available III Unavailable	Uplink Copper Fiber	Enable	Edit
STP	GIS	1 3 5 7 9 11 13 15 17 19	21 23 17 19 21 23	Enable	Edit
LLDP	Gi6			Enable	Edit
RLDP	Gi7	2 4 6 8 10 12 14 16 18 20	22 24 18 20 22 24 25 26	Enable	Edit
Voice VLAN	Gi8	None. Four carrieres and aroug to select one of more po	Sect Air Interse Deserect	Enable	Edit
Diagnostics	GI9		Cancel OK	Enable	Edit
🛞 System 🔗	GHO	Enable	Enable	Enable	Edit
	Total 28 10/page -> (1 2 3 >>	Go to page 1			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie	cc	test123_1_Auto > NBS5200 0		Operation succeeded.	English ~	ORuijie Cloud Bownload App	🖗 Wizard 🕞 Log (
응 Home 응 VLAN		LLDP Settings LLDP Manager	nent LLDP Info				
聖 Monitor	~	Port List					🖉 Batch Edit
Ports	~	Port	Send LLDPDU	J Receive LLDPDU	LLDP-MED	Action	
L2 Multicast		Gi1	Enable	Disable	Disable	Edit	
L3 Interfaces		GI2	Enable	Disable	Disable	Edit	
Security	~	Gi3	Enable	Enable	Enable	Edit	
🖻 Advanced	~	Gi4	Enable	Enable	Enable	Edit	
STP		GI5	Enable	Enable	Enable	Edit	
LLDP		Gi6	Enable	Enable	Enable	Edit	
RLDP Local DNS		GI7	Enable	Enable	Enable	Edit	
Voice VLAN		GI8	Enable	Enable	Enable	Edit	
Diagnostics	~	Gi9	Enable	Enable	Enable	Edit	
System	~	Gi10	Enable	Enable	Enable	Edit	
		Total 28 10/page 🗸 🤇	1 2 3 → Go to page 1				

Alternatively, click Edit in the Action column, configure parameters, and click OK.

Reyee Cookbook

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ể₀ Home ś ^g VLAN	LLDP Settings LLDP Management LLDP Info				
🐑 Monitor 🗸 🗸	Port List	Port:Gi3	×		& Batch Edit
Ports ~	Port	Send LLDPDU:		LLDP-MED	Action
 L2 Multicast 	GIT	Receive LLDPDU:		Disable	Edit
Classification L3 Interfaces	GI2	LLDP-MED:		Disable	Edit
⊘ Security ~	GI3			Enable	
色 Advanced	Gi4		Cancel OK	Enable	Edit
STP	Gi5	Enable	Enable	Enable	Edit
LLDP	Gi6	Enable	Enable	Enable	Edit
RLDP Local DNS	G17	Enable	Enable	Enable	Edit
Voice VLAN	Gi8	Enable	Enable	Enable	Edit
② Diagnostics	GI9	Enable	Enable	Enable	Edit
🗄 System 😪		Enable	Enable	Enable	Edit
	Total 28 10/page - 1 2 3 >	Go to page 1			

The message "Operation succeeded." is displayed, and the port list is updated.

Ruíjie SRcyco	test123_1_Auto > NBS5200 0	 Operation 	succeeded.	English 🗸 🛆 Ruijie Clou	d . Download App 会 Wizard 🕞 Log Ou
중 Home	LLDP Settings LLDP Management	LLDP Info			
딸 Monitor 🗸 🗸	Port List				🖉 Batch Edit
Ø Ports ~	Port	Send LLDPDU	Receive LLDPDU	LLDP-MED	Action
L2 Multicast	GI1	Enable	Disable	Disable	Edit
L3 Interfaces	Gi2	Enable	Disable	Disable	Edit
⊘ Security ~	GI3	Enable	Disable	Enable	Edit
🖻 Advanced 🔷 🗠	Gi4	Enable	Enable	Enable	Edit
STP	GI5	Enable	Enable	Enable	Edit
LLDP	Gi6	Enable	Enable	Enable	Edit
RLDP Local DNS	GI7	Enable	Enable	Enable	Edit
Voice VLAN	Gi8	Enable	Enable	Enable	Edit
Diagnostics `` ` `` `	Gi9	Enable	Enable	Enable	Edit
😤 System 🗸 🗸	Gi10	Enable	Enable	Enable	Edit
	Total 28 10/page 🗸 🤇 1	2 3 > Go to page 1			

1.3 LLDP Info

The **LLDP Info** page displays information about the current devices and neighbor information of each port. **Click** the port name to display neighbor details of this port.

Reyee Cookbook

Rujje &Rcycc	test123_1_Auto > NBS5200 0					English 🗸 🛆 Ruijie Cloud	鼢Download App	🕀 Wizard	🕞 Log Out
 ♣ Home ℬ VLAN ℗ Monitor ◇ ℗ Ports ◇ □ L2 Multicast ⊕ L3 Interfaces 	LLDP Settings LLDP Management LLDP Info Device Info Device ID: 54:165:176:EA:90 Hostname: NBS5200 Description: RG-NBS5200-255P/PGGTaXS Supported Feature: Bridge.Router.Repeater MGMT IP: 192:168:110.74 Enabled Feature: Neighbor Info Neighbor Info								
⊘ Security ∽	Port	Device ID Type	Device ID	Port ID Type	Port ID	Neighbor System	Tim	e To Live(s)	
Advanced ~	Gi18	MAC address	68:F7:28:CC:10:61 C0:B8:E6:9A:43:0D	MAC address Locally assigned	68:F7:28:CC:10:61 GI13	NBS3100		3399	
LLDP									
Local DNS									
© Diagnostics									
🗄 System 🗸									

LLDP can be used to display the topological connection status, such as the numbers of switches, MED devices, and NMS devices in the network topology.

LLDP can be used to detect errors, for example, display incorrect configuration information if two switches are directly connected in the network topology.

4.3.6.3 RLDP

RLDP is used to detect downlink loops. You can select an action among warning, block and shutdown to prevent forwarding loops on a layer-2 network.

Ruíjie Rcycc	test123_1_Auto > NB55200 ●	English 🗸 🛆 Ruijie Cloud	M Download App	🔮 Wizard [∃Log Out
_{රීව} Home					
를 VLAN	KLDP settings				
딸 Monitor 🗸 🗸	RLDP:				
Ø Ports					_
L2 Multicast					
L3 Interfaces					
⊘ Security ~					
台 Advanced 个					
STP					
LLDP					
RLDP					
Local DNS					
Voice VLAN					
@ Diagnostics ~					
🕆 System 🗸					

1.1 RLDP Settings

Reyee Cookbook

Rujje	test123_1_Auto > NB55200 ●	English ~	△ Ruijie Cloud	證Download App	Wizard	🕞 Log Out
ය Home	BIOD Californi					
20 VLAN	nutr settings					
딸 Monitor 🗸	RLDP:					
Ø Ports						
L2 Multicast						
L3 Interfaces						
⊘ Security ~						
🖻 Advanced 🔷 🔿						
STP						
LLDP						
RLDP						
Local DNS						
Voice VLAN						
Diagnostics						
😳 System 🗸						

Enable **RLDP**, set global RLDP parameters, and click **Save**.

Ruíjie Reyce	test123_1_Auto > NB55200 ●	English 🗸 🛆 Ruijie Cloud 📓 Download App 🔶 Wizard 🕞 Log Ou
ిం Home	BLDP Settings BLDP Management BLDP Info	
ST VLAN		
딸 Monitor 🗸	RLDP:	
Ø Ports ~	*Hello Interval: 3 seconds Errdisable Recovery:	
L2 Multicast	* Errdisable Recovery 30	seconds
L3 Interfaces		
⊘ Security ~	Save	
合 Advanced 个		
STP		
LLDP		
RLDP		
Local DNS		
Voice VLAN		
Diagnostics		
🔆 System		

Errdisable Recovery: after the errdisable recovery interval, the port will be restored to its origional status.

When RLDP is enabled, the page of RLDP Management and RLDP Info will ne displayed

1.2 RLDP Management

Reyee Cookbook

Ruijie	/cc	test123_1_Auto > NBS5200 0		Englis	h ∽ Ruijie Cloud 🗱 Download App 🔶 Wizard 🕞 Log Ou
_{δ⁹δ} Home		RLDP Settings RLDP Management RLDP Info			
部 VLAN	5	Port List			۷. Batch Edit
Ports	~	Port	Loop Detection	Action	Action
L2 Multicast		GI1	Disable		Edit
L3 Interfaces		Gi2	Disable		Edit
⊘ Security	~	GI3	Disable		Edit
台 Advanced	~	GI4	Disable		Edit
STP		GI5		Member port of Ag1.	
LLDP		GI6	Disable		Edit
RLDP		GI7	Disable		Edit
Voice VLAN		GI8	Disable		Edit
② Diagnostics	¥.	G19		Member port of Ag1.	
System	×	Gi10	Disable		Edit
		Total 30 10/page < 1 2 3 >	Go to page 1		

Click Batch Edit, select ports, and configure parameters.

Ruijie Rcycc			
ిం Home కి VLAN	RLDP Settings RLDP Management RLDP Info		
🗐 Monitor 🛛 🗸	Port List	Batch Edit ×	ل Batch Edit
Ports	Port	Loop Detection:	Action
L2 Multicast	Git	Action: Block ~	Edit
L3 Interfaces	Gi2	* Select Port:	Edit
⊘ Security ~	GI3	Available Unavailable Aggregate 👔 Uplink 💼 Copper 📷 Fiber	Edit
🗎 Advanced 💦 🗠	Gi4	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23	Edit
STP	GIS	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 75 26	
LLDP	Gi6	Note: You can click and drag to select one or more ports. Select All Inverse Deselect	Edit
Local DNS	Gi7		Edit
Voice VLAN	Gi8	Cancel OK	Edit
Diagnostics	GI9	Member port of Ag1.	
💱 System		UTSADIe	
	Total 30 10/page - 1 2 3	Go to page 1	

Action

Block: Packets block

Warning: Only a warning, but packets will not be blocked.

Shutdown: Shut down the looping interface.

The message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

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on Home	RI DR Satting	PLDP Management PLDP Info			
중 VLAN	KLOP Setting:	KLOP Management KLOP Into			
图 Monitor	Port List				2. Batch Edit
Ø Ports		Port	Loop Detection	Action	Action
L2 Multicast		GI1	Enable	Block	Edit
L3 Interfaces		GI2	Enable	Block	Edit
Security		Gi3	Disable		Edit
- A damad		GI4	Disable		Edit
H Advanced		GI5		Member port of Aq1.	
SIP		Gi6	Dicable		Früt
RLDP					2015
Local DNS		G17	Disable		Edit.
Voice VLAN		GI8	Disable		Edit
③ Diagnostics	v	Gi9		Member port of Ag1.	
		Gi10	Disable		Edit
	Total 30 1	10/page < 1 2 3 >	Go to page 1		

Alternatively, click **Edit** in the **Action** column, configure parameters, and click **OK**.

Ruijie Reyco				
ిం Home ప్రో VLAN	RLDP Settings RLDP Management RLDP Info			
型 Monitor ~	Port List	Port:Gi3	×	Antion
Ø Ports ~	Git	Loop Detection:		Edit
 L2 Multicast L3 Interfaces 	GI2	Action: Shutdown	~	Edit
Security	GI3		Cancel	Edit
色 Advanced 个	GI4	Disable		Edit
STP	GIS		Member port of Ag1.	
LLDP	Gi6	Disable		Edit
RLDP	GI7	Disable		Edit
Voice VLAN	Gi8	Disable		Edit
Diagnostics	Gi9		Member port of Ag1.	
≆ System ~	Gito	Disable		Edit
	Total 30 10/page 🗸 🤇 1 2 3 >	Go to page 1		

The message "Operation succeeded." is displayed, and the port list is updated.

Reyee Cookbook

Ruíjie IRcyco	test123 1 Auto > NB55200 0	Operation succeeded.	Englis	sh 🗸 🛆 Ruijie Cloud 📓 Download App - 음 Wizard 🕞 Log Ou
ස් Home	RLDP Settings RLDP Management RLDP Info			
≝ ^p VLAN	la un			
倒 Monitor 🗸	Port List			2 Batch Edit
Ø Ports	Port	Loop Detection	Action	Action
L2 Multicast	GI1	Enable	Block	Edit
L3 Interfaces	Gi2	Enable	Block	Edit
⊘ Security ~	Gi3	Enable	Shutdown	Edit
출 Advanced ^	Gi4	Disable		Edit
STP	GI5		Member port of Ag1.	
LLDP	Giố	Disable		Edit
RLDP	Gi7	Disable		Edit
Local DNS Voice VLAN	Gi8	Disable		Edit
Diagnostics	Gi9		Member port of Ag1.	
System	Gi10	Disable		Edit
	Total 30 10/page v (1 2 3) Go to page 1			

1.3 RLDP Info

The **RLDP Info** page displays information about the current devices and neighbor information of each port. Click the port name to display neighbor details of this port.

Ruijie	C test123_1_Auto > NBS5200 ❶		English ~	C Ruijie Cloud III Download App 🔮 Wizard 📑 Log Out
ిం Home జ్ VLAN	RLDP Settings RLDP Management RLDP Info			
图 Monitor	Port List			Reset
Ø Ports	Port	Status	Action	Neighbor Port
	GI1	OK	Block	-
L2 Multicast	GI2	ОК	Block	**
L3 Interfaces	GI3	ОК	Shutdown	**
⊘ Security	GI4	ОК		
Advanced	GIS		Member port of Ag1.	
STP	Gi6	ОК		**
LLDP	Gi7	ОК		
RLDP	GI8	ОК		**
Local DNS	Gi9		Member port of Ag1.	
Voice VLAN	Gi10	OK		-
③ Diagnostics	Total 30 10/page < 1 2 3 > Go	to page 1		
System	P			

Click **Reset** to reset the errdisabled port.

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Rujje Reyce	test123_1_Auto > NBS5200 @			English ~ _ Ruijie Cloud 鍵Download App
් _{ර්} Home හි VLAN	RLDP Settings RLDP Management RLDP Info			
图 Monitor ~	Port List			Reset
Ports	Port	Status	Action	Neighbor Port
0.1214/00/00	GI	ок	Block	
C L2 Multicast	GI2	ок	Block	
L3 Interfaces	Gi3	ок	Shutdown	
⊘ Security ~	GI4	ок	- 28	
Advanced	GIS	Are you sure you want to reset the errdisabled	Member port of Ag1.	
STP	Gi6	port?		
UDP	GI7	Cancel OK	-	
RIDP	Gi8	OK		
Local DNS	G19		Member port of Ag1.	
Voice VLAN	Gitt	OK		
④ Diagnostics ~	Total 30 10/page - C 1 2 3 > Go to page 1			
壶 System 🗸				

When the looping occurs, the RIDP Info will the display the wrong message.

RLDP Settings	RLDP Management	RLDP Info		
Port List				Reset
	Port	Status	Action	Neighbor Port
	Gi11		Member port of Ag2.	
	Gi12		Member port of Ag2.	
	Gi13	ОК		
	Gi14	ОК		
	Gi15	ОК		
	Gi16	ОК		
	Gi17	ОК	1771	
	Gi18	Exception	Warning	Gi20
	Gi19	ОК		
	Gi20	Exception	Warning	Gi18
Total 30 10/p	age 🗸 🤇 1	2 3 > Go to page 2		

4.3.6.4 Local DNS

The Local DNS module allows you to set a DNS Server for this device.

Rujje	test123_1_Auto > NB55200 @ English ~ _ @Ruijie Cloud - 20 @Wizard
🖧 Home	
and VLAN	The local DNS server is not required to be configured. By default, the device will get the DNS server address from the uplink device.
图 Monitor ~	Local DNS server Example: 8.8.8, each separated by a space.
Ø Ports ~	Save
L2 Multicast	
L3 Interfaces	
⊘ Security ~	
Advanced	
STP	
LLDP	
RLDP	
Local DNS	
Voice VLAN	
Diagnostics	
🐮 System 🗸	

Fill in a DNS Server address and click Save.

🚺 The local DNS server is not required to be configured. By default, the device will get the DNS server address from the uplink device.				
Local DNS server	8.8.4.4			
	Save			

The local DNS server is not required to be configured. By default, the device will get the DNS server address from the uplink device.

4.3.6.5 Voice VLAN

1.1 Overview

IP phones are widely used thanks to rapid development of technologies. The voice virtual local area network (VLAN) is a VLAN dedicated to voice data streams of users.

The device with the Voice VLAN function matches the source MAC address field in the packets entering the port by the MAC address. The source MAC address in the packets which matches the OUI address of systems settings will be regarded as voice data streams. Such packet will be allocated to voice VLAN for transmission. Priority rules are automatically delivered to improve the priority of Voice streams and ensure call quality.

The OUI is the first 24 bits of the MAC address. It is a globally unique identifier allocated by the Institute of Electrical and Electronics Engineers (IEEE) to an equipment supplier. You can determine the supplier of a product based on the OUI.

1.2 Features

Automatic and Manual Modes of the Voice VLAN

Ports in the voice VLAN can work either in automatic or manual mode. The way that ports are added to the voice VLAN varies according to the working mode.
Automatic mode

The automatic mode is applicable to the scenario where the PC and IP phone are serially connected to the port and transmit both voice and data streams.

When the port is configured as automatic mode, the switch and voice devices will communicte through LLDP. When the switch received the LLDP packets from the voice device, the device will automatically add the input port of the voice packet to the voice VLAN, and issue a policy to change the priority of the voice packet to the priority of the voice stream in the voice VLAN configured on the device, and uses the aging mechanism to maintain ports in the voice VLAN. If the system does not receive any voice packet from an input port before the aging timer expires, the system will delete this port from the voice VLAN.

The automatic mode must be configured when IP phones support LLDP., such as the topology below:



After the automatic Voice VLAN mode is enabled on a port, the Voice VLAN is removed from the Permit VLAN of the port until the port receives Voice data that belongs to the Voice VLAN (data tag=Voice VLAN). In automatic mode, the Voice VLAN is automatically added to the Permit VLAN so that Voice data can pass through the Voice VLAN. At the same time, a timer is started. If no Voice data is received within the aging time, the Voice VLAN is removed from the Permit VLAN.

Manual Mode

The manual mode is applicable to the scenario where the IP phone is directly connected to a switch and the port transmits only voice packets. In this networking mode, the port is dedicated to transmission of voice streams, which prevents data streams from affecting transmission of voice streams.

In manual port, the administrator manually adds a port to or deletes a port from the voice VLAN. The device identifies the source MAC address of the voice packet sent by the IP phone and compares this address with the OUI configured on the device. If the source MAC address matches the OUI, the device issues a policy to change the priority of the voice packet to the priority of the voice stream in the voice VLAN configured on the device, such as the topology below:



When the manual mode is enabled, If the voice streams from the IP Phone are untagged, the voice VLAN should equal to the Native VLAN, If the voice streams from the IP Phone are tagged, the voice VLAN is unequal to the Natice VLAN.

The following table describes the relationship between the working mode of the voice VLAN, IP phone type, and port type.

rad voice stream	Access port	Not supported.	
ged voice stream	Trunk port	Not supported.	
	Access Port	Not supported.	
d voice stream	Trunk port	Supported. The native VLAN connected to the port must exist and cannot be a voice VLAN. In addition, the port allows packets of the native VLAN to pass through	
	Access port	Supported. The voice VLAN must one of the VLANs to which the connected port is added.	
ged voice stream	Trunk port	Supported. The native VLAN connected to the port must be a voice VLAN, and the port allows packets of this VLAN to pass through.	
	Access port	Not supported.	
d voice stream	Trunk port	Supported. The native VLAN connected to the port must exist and cannot be a voice VLAN. In addition, the port allows packets of the native VLAN and the voice VLAN to pass	
	ged voice stream d voice stream ged voice stream	ged voice stream Access port Trunk port Access Port d voice stream Trunk port ged voice stream Access port ged voice stream Trunk port ged voice stream Trunk port Trunk port Trunk port	

Security Mode of the Voice VLAN

In order to better isolate voice streams from data streams during transmission, the voice VLAN provides the security mode.

When the security mode is enabled, the voice VLAN only allows the transmission of voice streams. In this case, the device checks the source MAC address of each packet. When the source MAC address of a packet is a voice VLAN OUI that can be identified, the packet can be transmitted in the voice VLAN; otherwise, the packet is dropped.

When the security mode is disabled, the device does not check the source MAC address of each packet, and all packets can be transmitted in the voice VLAN.

In security mode, the device checks the source MAC address of only the untagged packets or the packet containing the voice VLAN tag. For other packets that do not contain the voice VLAN tag, the device forwards or drops these packets according to the VLAN rules.

You are advised not to transmit voice and data streams concurrently in a voice VLAN. If it is necessary to concurrent transmission of voice and data streams, confirm that the security mode of the voice VLAN has been disabled.

LLDP function

If the IP phone supports THE LLDP protocol, users do not need to configure OUI. The device can capture the LLDP protocol sent by the IP phone to identify the device capability fields in the protocol packets. The device whose function is identified as "telephone" is the voice device. The source MAC addresses of protocol packets are extracted and automatically added to the OUI list for automatic voice identification, as shown in below picture:

OUI List					+ Add 🗇 Delete Selected
Up to 32	entries can be added.				
	MACAddress	OUI Mask	Description	Туре	Action
	1C:17:D3:00:00:00	FF:FF:FF:00:00:00		LLDP	Delete

Some advanced IP phones proactively send LLDP packets to obtain the Voice VLAN information configured on the switch. If the Voice VLAN is enabled on the switch port connected to the IP phone, the Voice VLAN information is filled in the related fields and sent to the IP phone. After receiving the LLDP packet with Voice VLAN information, the IP phone sends Voice packets with tags.

1.3 Automatic Mode Configuration

Configuring the port as automatic, the voice date will pass through Voice VLAN, and the PC data will pass through the default VLAN.



If IP Phone is connected to the 3 ports of switch:

Step 1: Enter VLAN page by eWeb and Create VLAN 5 as Voice VLAN.

Configuration

Ruijie Rcyc	c test123_1_Auto > N	IBS5200 🛛				English ~ 🛆 Ruijie C	Cloud 顧Download App
🖧 Home	VLAN List)				+ Batch Ac	Id + Add
Denitor	Up to 4094 enti	ries can be added.(The default VLAN, ma	Add		×		
Ø Ports		VLAN ID ©	* VLAN ID:	5	Range: 1-4094		Action
L2 Multicast		1	Description:	Voice VLAN	Max: 32 characters.	3-24,Te25-28	Edit Delete
L3 Interfaces		7				Gi20	Edit Delete
⊘ Security		10			Cancel OK	3,GI20	Edit Delete
🖹 Advanced		100		Staff	GI3,GI6,GI18	8,Gi20	Edit Delete
Diagnostics		200		guset	GI3,GI6,GI18	8,Gi20	Edit Delete
😤 System	Total 5 10/page	Go to page	• 1				
	Port List 😑						🖉 Batch Edit
	P	Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
		GII	ACCESS	1			Edit
		Gi2	ACCESS	1			Edit
			TRUNK		10	1-4094	Edit
		GI4	ACCESS				Edit

VLAN List			+	Batch Add + Add Delete Selected
Up to 4094 ent	tries can be added.(The default VLAN, manag	gement VLAN, Native VLAN, SVI VLAN, MVR VLAN, Voice VLAN and Acce	ess VLAN cannot be deleted.)	
	VLAN ID \$	Description	Port	Action
	1	VLAN0001	Gi1-3,Gi6-8,Gi10,Gi13-24,Te25-28	Edit Delete
	5	Voice VLAN	Gi6,Gi18,Gi20	Edit Delete
	7	VLAN0007	Gi3,Gi6,Gi18,Gi20	Edit Delete
	10	VLAN0010	Gi3-4,Gi6,Gi18,Gi20	Edit Delete
	100	Staff	Gi3,Gi6,Gi18,Gi20	Edit Delete
	200	guset	Gi3,Gi6,Gi18,Gi20	Edit Delete

 Total 6
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 Go to page
 1

Step 2: Configure port 3 as trunk mode in the Port List of VLAN

page.

Ruijie IRcycc	test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruijie Cloud 🛔	Download App 🔮 Wizard 🕞 Log C
ిం Home	100	Staff	GI3,GI6,GI18,GI20		Edit Delete
# VLAN	200	guset	GI3,GI6,GI18,GI20		Edit Delete
🗑 Monitor 🛛 👻	Total 6 10/page 🕤 🤄 🚺 🔅 Go to pa	Port:Gi3	×		
Ports	Port List	Port Mode: Trunk Port	~		& Batch Edit
L2 Multicast	Port	* Native VLAN: 1	~	Permit VLAN	Action
L3 Interfaces	GI	Permitted VLAN: 1-4094			Edit
⊘ Security ~	Gi2				Edit
🛱 Advanced 🛛 👻	GB		Cancel OK	1-4094	Edit
@ Diagnostics ~	GI4	ACCESS 10			Edit
🛣 System 👋	GI5		Member port of Ag1.		
	Gi6	TRUNK	1	1-4094	Edit
	Gi7	ACCESS 1			Edit
	Gi8	ACCESS 1			Edit
	GI9		Member port of Ag1.		
		ACCESS 1			Edit
	Total 30 10/page - 1 2 3 >	Go to page 1			6
« Collapse					
Port List					🖉 Batch Edit
Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
Gi1	ACCESS	1			Edit
Gi2	ACCESS	1			Edit
012	Roccos				Lon
Gi3	TRUNK		1	1-4,6-4094	Edit
Gi4	ACCESS	10	55. ·		Edit
GI5			Member port of Ag1.		
Gi6	TRUNK		1	1-4094	Edit
Gi7	ACCESS	1			Edit
Gi8	ACCESS	1			Edit
Gi9			Member port of Ag1.		
GI10	ACCESS	1	**		Edit
Total 30 10/page ~	< 1 2 3 > Go to page 1				

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δ ² δ Home							
ể [₽] VLAN	Global Settings OUI	Port Settings					
또 Monitor ~	() Global Settings						
Ø Ports	Voice VLAN						
L2 Multicast	* VLAN	5(Voice VLAN) v Range: 2-4094					
L3 Interfaces	* Max Age	1440 minute Range: 1-43200					
⊘ Security ~	CoS Priority	6 ~ ~					
各 Advanced		Save					
STP							
LLDP							
RLDP							
Local DNS							
Voice VLAN							
Diagnostics							
🗄 System 🗸							
Ruíjie #Rcyco	test123_1_Auto > NBS5200 (English ~ (CRuijie Cloud	讚Download App	🔮 Wizard	⊖Log Out
Ruijie fiRcyco	test123_1_Auto > NBS5200	Det Setline	English ~ (☐ Ruijie Cloud	讚Download App	🔗 Wizard	🗗 Log Out
ا اللہ اللہ اللہ اللہ اللہ اللہ اللہ ال	test123_1_Auto > NB55200 (Global Settings OUI	Port Settings	English ~ (☐ Ruijie Cloud	證Download App	🕭 Wizard	[→ Log Out
Ruffe Revea & Home & VLAN	test123_1_Auto > NB55200 (Global Settings OUI Global Settings	Port Settings	English ~ (≏Ruijie Cloud	讀Download App	∲ Wizard	☐ Log Out
Ruffe €Rcycce & Home VLAN Monitor ~ O Ports ~	test123_1_Auto > NB55200 (Global Settings OUI Clobal Settings Voice VLAN	Port Settings	English ~ (∩Ruijie Cloud	證Download App	∲ Wizard	🕒 Log Out
Ruffe I €Rcyco & Home Ø VLAN ₪ Monitor ~ Ø Ports ~ △ L2 Multicast	test123_1_Auto > NB55200 0 Global Settings OUI Global Settings Voice VLAN * VLAN	Port Settings	English ~ (∩Ruijie Cloud	麗Download App	♦ Wizard	[] Log Out
Profine BRcycol ⁸ h Home ⁸ VLAN ¹ Wonitor ¹ O ¹ L2 Muticast ¹ L3 Interfaces	test123_1_Auto > N855200 (Global Settings OUI Clobal Settings Voice VLAN * VLAN * Max Age	Port Settings	English v (⊖ Ruijie Cloud	囊Download App	♦ Wizard	[∃Log Out
Previnte BRcycol B Home ULAN Image: Constraint of the second seco	test123, 1, Auto > NB55200 (Global Settings OUI () Global Settings Voice VLAN + VLAN + Max Age CoS Priority	Port Settings S(Voice VLAN) \$(Voice VLAN) minute Range: 1-43200 6	English ~ (∆Ruijie Cloud	2 Download App	∲ Wizard	⊟ Log Out
Ruffe #Reycol B Home VLAN Wonitor Monitor Wonitor Dorts Wonitor L2 Multicast L3 Interfaces Security Wonitor Endote Advanced	test123_1_Auto > NB55200 0 Global Settings OUI C Global Settings Voice VLAN + VLAN + Max Age CoS Priority	Port Settings \$voice VLAN) Range: 2-4094 1440 minute Range: 1-43200 6 Save Save	English > (∆Ruijie Cloud	28 Download App	Wizard	☐ Log Out
Pluffie #Recycle B Home Ø VLAN IV Monitor O Ports IL2 Multicast IL3 Interfaces O Security IM ETP Advanced O	test123_1_Auto > NB55200 4 Global Settings OUI Colobal Settings OUI Colobal Settings Voice VLAN * VLAN * Max Age CoS Priority	Port Settings Stylice VLAN) minute Range: 1-43200 6 Save	English > (∆Rujje Cloud	20 Download App	Wizard	⊡Log Out
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Ruffe \$Reycol B Home Valan \$Valan Monitor \$Valan Dorts \$Valan Data \$Valan Stra \$Valan RLDP \$Valan	test123_1_Auto > NB55200 4	Port Settings	English ~ (_ Rujje Cloud	Me Download App	♦ Wizard	[] Log Out
Image: Second	test123_1_Auto > NB55200 4	Port Settings	English ~ (_ Rujje Cloud	Me Download App	♦ Wizard	[] Log Out
Image: Second	test123_1_Auto > NB55200 4	Port Settings S(Voice VLAN) « Range: 2-4094 1440 minute Range: 1-43200 6 Save	English ~ (_ Rujje Cloud	Me Download App	♦ Witzard	(Log Out
Ruffe #Rcycol A Home If VLAN Image: Second Secon	test123, 1, Auto > NB55200 4	Port Settings Solvice VLAN0 Range: 2-4094 1440 minute Range: 1-43200 6 Sove	English > (_ Rujje Cloud	M Download App	♦ Wbard	C Log Out

Step 3: In Voice VIan page, click Advanced->Voice VLAN->Global Settings to configure VLAN 5 as Voice VLAN

Other parameters can be selected based on site requirements. Otherwise, default values will be used.

Step 3: Click Advanced->Voice VLAN->Port Settings to enable the Voice VLAN of port 3.

illa and the second	:C test123_1_Auto > NBS5200 0			English 🗸 🛆 Ruiji	e Cloud 🏼 創Download App 🔮 Wizard 🕞 Log (
e [®] h Home	Global Settings OUI Port Settings				
Monitor	Port List The port can be set to the automatic mode only when To ensure the normal operation of voice VLAN on p	Edit		× rst, and automatically join the voice VLA st.	N until it receives voice data again.
Ø Ports	voice VLAIV does not support layer 5 ports and agg	Enable			
C L2 Multicast	Port List	Voice VLAN Mode	Auto Mode 🗸 🖉		2. Batch Edit
L3 Interfaces	Port	Security Mode	0	Security Mode	Action
⊘ Security	Git			Enabled	Edit
台 Advanced	Gi2		Cancel	OK Enabled	Edit
STP	Gi3	Disabled	Auto Mode	Enabled	Edit
LLDP	Gi4	Disabled	Auto Mode	Enabled	Edit
RLDP	GIS		Member p		
Voice VLAN	Gi6	Disabled	Auto Mode	Enabled	Edit
Diagnostics	Gi7	Disabled	Auto Mode	Enabled	Edit
System	Gi8	Disabled	Auto Mode	Enabled	Edit
	GI9		Member p	ort of Ag1.	
	Gi10	Disabled	Auto Mode	Enabled	Edit
«Collaose	Total 28 10/page - 1 2 3 >	Go to page 1			
Port List					🖉 Batch Edit
	Port Enab	le	Voice VLAN Mode	Security Mode	Action
	Gi1 Disabl	ed	Auto Mode	Enabled	Edit

Gi1 Disabled Auto Mode Enabled	Edit
Gi2 Disabled Auto Mode Enabled	Edit
Gi3 Enabled Auto Mode Enabled	Edit
Gi4 Disabled Auto Mode Enabled	Edit
GIS Member port of Ag1.	
Gi6 Disabled Auto Mode Enabled	Edit
Gi7 Disabled Auto Mode Enabled	Edit
Gi8 Disabled Auto Mode Enabled	Edit
Gi9 Member port of Ag1.	
Gi10 Disabled Auto Mode Enabled	Edit

Total 28 10/page < < 1 2 3 > Go to page 1

When security mode is enabled, Voice VLAN only allows passing through the voice date. If disable, all data could pass through Voice VLAN.

The port can be set to the automatic mode only when the port VLAN is in the trunk mode. When the port is in the automatic mode, the port will exit the voice VLAN first, and automatically join the voice VLAN until it receives voice data again.

To ensure the normal operation of voice VLAN on port, please do not switch the port mode (trunk/access mode). To switch the mode, please disable the voice VLAN first.

Voice VLAN does not support layer 3 ports and aggregation ports.

Step 5: Click Advance->Voice VLAN->OUI to add the OUI of voice devices.

Ruijie Rcycc	test123_1_Auto > NBS5200 0				English ~	△Ruijie Cloud
ST Home	Global Settings OUI Port Settings					
副 Monitor Y	OUI List The enabled globally port will automatically add the co	d		×		
Ports ~	OUI List	* MAC Address	1C:17:D3:00:00:00			+ Add 🗊 Delete Selected
L2 Multicast	Up to 32 entries can be added.	OUI Mask	FF:FF:FF:00:00:00			
L3 Interfaces	MAC Address	Description			Туре	Action
⊘ Security ~						
🖻 Advanced 🔷 🗠	Total 0 10/page V 1 Go to page			Cancel OK		
STP						
LLDP						
Local DNS						
Voice VLAN						
@ Diagnostics 🗠						
🚁 System 🔗 😪						
«Collapse						

Global Settings	OUI Port Settings						
OUI List The enab	led globally port will automatically add the	corresponding OUI when receiving an LLDP packet t	nat is identified as telephone.				
OUI List					+ Add Delete Selected		
Up to 32 ent	tries can be added.						
	MAC Address	OUI Mask	Description	Туре	Action		
	1C:17:D3:00:00:00	FF:FF:FF:00:00:00		Setup	Delete		
Total 1 10/pa	Total 1 10/page v < 1 > Go to page 1						

If the IP phone supports LLDP, the device automatically adds the OUI of the IP phone to the OUI list after the Voice VLAN function is enabled on the port. In this case, you can skip Step 5. If the port 3 does not have LLDP Neihbor Info, the device does not support LLDP.

Check the LLDP information of IP Phone by clicking Advance->LLDP->LLDP Info

[Gi3]Neighbor Detai 1C17D3416383:	ls P1		
Device ID Type:	Network address	Device ID:	0.0.0.0
Port ID Type:	Locally assigned	Port ID:	1C17D3416383:P1
Hostname:	SEP1C17D3416383	PVID :	022
VLAN ID:	223	Time To Live :	179
MGMT IP:	223		
Description:	Cisco IP Phone 7911G,	V8, term11.default	
Supported Feature:	Bridge, Telephone	Enabled Feature:	Bridge, Telephone

1.4 Manual Mode Configuration

Set the port to manual mode and let Voice data pass through the Voice VLAN.



For example: if the port 4 of switch connects to IP Phone,

Step 1: Enter VLAN page by eWeb, and create VLAN 50 as Voice VLAN.

Ruíjie Rcycc						
🖧 Home 67 VLAN	VLAN List				+ Batch Add	+ Add Delete Selected
聖 Monitor ~ ~	Up to 4094 entries can be added.(Th	e default VLAN, mar Add		×		
Ø Ports ~	D. VLAN II	D ≑ ▼VLAN ID:	50	Range: 1-4094		Action
L2 Multicast	II. 1	Description:	Voice VLAN	Max: 32 characters.	24, Te25-28	Edit Delete
L3 Interfaces	. 7			G		Edit Delete
⊘ Security ~				Cancel OK 3.		Edit Delete
台 Advanced 👋	100		Staff	GI3,GI6,GI18,G		Edit Delete
Diagnostics	Total 4 10/page 🚽 🗧 1	Go to page 1				
🔹 System 🗠	Port List					🖉 Batch Edit
	Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
	Git	ACCESS	1			Edit
	Gi2	ACCESS	đ.			Edit
	Gi3	TRUNK		т	1-4,6-4094	Edit
	GI4	ACCESS	10			Edit
	GIS			Member port of Ag1.		
@ Collanse						

VLAN List			+	Batch Add + Add Delete Selected
Up to 4094 en	ntries can be added.(The default VLAN, management	nt VLAN, Native VLAN, SVI VLAN, MVR VLAN, Voice VLAN and Acc	ess VLAN cannot be deleted.)	
	VLAN ID \$	Description	Port	Action
	1	VLAN0001	Gi1-3,Gi6-8,Gi10,Gi13-24,Te25-28	Edit Delete
	7	VLAN0007	GI3,GI6,GI18,GI20	Edit Delete
	10	VLAN0010	Gi3-4,Gi6,Gi18,Gi20	Edit Delete
	50	Voice VLAN	GI3,GI6,GI18,GI20	Edit Delete
	100	Staff	GI3,GI6,GI18,GI20	Edit Delete
Total 5 10/page	e 🗸 🤇 1 > Go to page 1			

Step3: Configure port 4 as access mode and Access VLAN as VLAN 50 in the Port List of VLAN page.

Ruijie	test123_1_Auto > NBS5200 0				English 🗸 🛆 Ruijie Cloud 🚦	夏Download App 會 Wizard 📑 Log O
🖧 Home	50		Voice VLAN	G13,G16,G118,G120		Edit Delete
중 VLAN	100		Staff	GI3,GI6,GI18,GI20		Edit Delete
😰 Monitor 🗠	Total S 10/page v S 1	Port:Gi4 Go to page		×		
Ø Ports ~	Port List 😑	Port Mode:	Access Port	~		Z Batch Edit
L2 Multicast	Port	* Access VLAN:	50	×	Permit VLAN	Action
L3 Interfaces	Git					Edit
⊘ Security ~	GI2		[Cancel OK		Edit
🖻 Advanced 🛛 👻	Gi3	TRUNK		i i	1-4,6-4094	Edit
② Diagnostics ~	Gi4	ACCESS	1			Edit
⊞ System 👋	GIS			Member port of Ag1.		
	Gi6	TRUNK		1	1-4094	Edit
	Gi7	ACCESS	1			Edit
	GI8	ACCESS	1			Edit
	GI9			Member port of Ag1.		
	Gi10	ACCESS	î.			Edit
« Collapse	Total 30 10/page - 1 2	3 Go to page 1				e

Reyee Cookbook					Configuration
Port List 😑					🖉 Batch Edit
Port	Port Mode	Access VLAN	Native VLAN	Permit VLAN	Action
Gi1	ACCESS	1			Edit
Gi2	ACCESS	1			Edit
GI3	TRUNK		1	1-4,6-4094	Edit
Gi4	ACCESS	50			Edit
Gi5			Member port of Ag1.		
Gi6	TRUNK		1	1-4094	Edit
Gi7	ACCESS	1			Edit
Gi8	ACCESS	1			Edit
G19			Member port of Ag1.		
Gi10	ACCESS	1			Edit
Total 30 10/page V	2 3 > Go to page 1				(

Step3: In the Voice VLAN page, Click Advanced->Voice VLAN->Global Settings to choose VLAN 5 as Voice VLAN.

Ruijie IRcycc	test123_1_Auto > NBSS200 ●	English ~	Auijie Cloud	畿Download App	🖨 Wizard	🗗 Log Out
ిం Home						
SP VLAN	Giobal Settings OUI Port Settings					
🗄 Monitor 🗸	() Global Settings					
Ports ~	Voice VLAN 💽					
L2 Multicast	* VLAN 50(Violce VLAN) V Range: 2-4094					
L3 Interfaces	* Max Age 1440 minute Range: 1-43200					
⊘ Security ~	CoS Priority 6 ~					
🖹 Advanced	Save					
STP						
LLDP						
RLDP						
Local DNS						
Voice VLAN						
Diagnostics						
💱 System 🗸						

Other parameters can be selected based on site requirements. Otherwise, use the default values

Ruíjie IRcycc	test123_1_Auto > NBS5200 0				English ~ 〇 Ruijie Cloud 顧Download App	∲ Wizard 🕞 Log C
Sh Home	Global Settings OUI Port Settings					
⊕ Monitor ✓	Port List The port can be set to the automatic mode only when To ensure the normal operation of voice VLAN on port	Edit		× rst, and automati st.	cally join the voice VLAN until it receives voice data aga	in.
Ø Ports	voice VLAN does not support layer 5 ports and aggre.	Enable				
L2 Multicast	Port List	Voice VLAN Mode	Manual Mode 🗸			& Batch Edit
L3 Interfaces	Port	Security Mode		Security M	ode Action	
⊘ Security ~	Gi1			Enabled	Edit	
Advanced	Gi2		Cancel	OK Enabled	Edit	
STP	Gi3	Disabled	Auto Mode	Enabled	Edit	
LLDP	G14	Disabled	Auto Mode	Enabled	Edit	
RLDP	GI5			Member port of Ag1.		
Voice VLAN	Gi6	Disabled	Auto Mode	Enabled	Edit	
@ Diagnostics ~	G17	Disabled	Auto Mode	Enabled	Edit	
📰 System 🗠	Gi8	Disabled	Auto Mode	Enabled	Edit	
	Gi9			Member port of Ag1.		
	Gi10	Disabled	Auto Mode	Enabled	Edit	
«Collapse	Total 28 10/page - 1 2 3 >	Go to page 1				

Step 4: Click Advanced->Voice VLAN->Port Settings to enable port 4 as Voice VLAN and enable it as maunal mode.

After security mode is enabled, only Voice data can pass through the Voice VLAN. If security mode is disabled, other data can also pass through the Voice VLAN. So it is recommended to the security mode

Port List					🖉 Batch Edit
Port	t Enable	Voice VLAN Mode	Security Mod	le Action	
Gi1	Disabled	Auto Mode	Enabled	Edit	
Gi2	Disabled	Auto Mode	Enabled	Edit	
GI3	Disabled	Auto Mode	Enabled	Edit	
Gi4	Enabled	Manual Mode	Enabled	Edit	
GI5	i i		Member port of Ag1.		
GI6	Disabled	Auto Mode	Enabled	Edit	
G17	Disabled	Auto Mode	Enabled	Edit	
Gi8	Disabled	Auto Mode	Enabled	Edit	
GI9)		Member port of Ag1.		
Gi10	0 Disabled	Auto Mode	Enabled	Edit	

The port can be set to the automatic mode only when the port VLAN is in the trunk mode. When the port is in the automatic mode, the port will exit the voice VLAN first, and automatically join the voice VLAN until it receives voice data again.

To ensure the normal operation of voice VLAN on port, please do not switch the port mode (trunk/access mode). To switch the mode, please disable the voice VLAN first.

Voice VLAN does not support layer 3 ports and aggregation ports.

Step 5: Click Advanced settings ->Voice VLAN->OUI to add the OUIs of voice devices

Rujje Rcycc	test123_1_Auto > NBS5200 0					English 🗸 🛆 Ruijie Cloud	讀Download App 合 Wizard 口 Log Ou
States	Global Settings OUI Port Settings						
Monitor	OUI List The enabled globally port will automatically add the c	Add			×		
Ø Ports	OUI List	* MAC Address	1C:17:D3:00:00:00				+ Add 🖹 Delete Selected
C L2 Multicast	Up to 32 entries can be added.	OUI Mask	FF:FF:FF:00:00:00				
L3 Interfaces	MAC Address	Description			_	Туре	Action
⊘ Security ~							
∄ Advanced 🗠	Total 0 10/mma v 1 1 2 Go to name			Cancel	ОК		
STP	come settade -						
LLDP							
RLDP							
Local DNS							
Voice VLAN							
Diagnostics							
🔹 System 🔗							

Global Settings	OUI Port Settings				
OUI Lis The enal	t bled globally port will automatically add the	corresponding OUI when receiving an LLDP packet t	hat is identified as telephone.		
OUI List					+ Add 🗊 Delete Selected
Up to 32 er	ntries can be added.				
	MAC Address	OUI Mask	Description	Туре	Action
	1C:17:D3:00:00:00	FF:FF:FF:00:00:00		Setup	Delete
Total 1 10/p	page 🗸 🤇 1 🔿 Go to pa	ge 1			

If the IP phone supports LLDP, after the Voice VLAN is enabled on the port, the DEVICE automatically adds the OUI of the IP phone to the OUI list. In this case, you can skip Step 5. If port 3 does not have LLDP Neihbor Info, the device does not support LLDP.

Click Advanced->LLDP->LLDP Info to check the LLDP information of IP Phone.

[Gi3]Neighbor Detai 1C17D3416383:	ils P1		
Device ID Type:	Network address	Device ID:	0.0.0.0
Port ID Type:	Locally assigned	Port ID:	1C17D3416383:P1
Hostname:	SEP1C17D3416383	PVID :	822
VLAN ID:	223	Time To Live :	179
MGMT IP:	223		
Description:	Cisco IP Phone 7911	G,V8, term11.default	
Supported Feature:	Bridge, <mark>Telephone</mark>	Enabled Feature:	Bridge, Telephone

4.3.7 Diagnostics

4.3.7.1 Info Center

The **Info Center** module displays the running status and configuration. The information displayed here provides reference for troubleshooting.

Port Info

Display the **Port Information** of devices.

Ruijie Rcycc	test123_1_Auto > NBS5200 0				English 🗸 🛆 Ruij	ie Cloud 2000 Download A	pp 🔮 Wizard 🕞 Log C
8 Home							
^{gg} VLAN	Center	Port Info					
🖳 Monitor 🛛 🗸	Port Info	Updated on2022-04-18 11:07:16 🔅 Refresh					Panel View
Ports ~	VLAN Info	1 3 5 7 9 11 13 15 17 19 21 23 17	19 21 23				
 L2 Multicast 	Routing Info						
L3 Interfaces	DHCP Clients	2 4 6 8 10 12 14 16 18 20 22 24 18	20 22 24 25 26 27 28				
⊘ Security ∨	ARP List	Port Gi1 Status Disconnected	Flow	Int	terface Mode	Access Port	
🖹 Advanced 🛛 🗸	DHCP Snooping	Actual Rate Actual Rate Flow Control(Config Disable	CRC/FCS Error/ Packets	DH	AN HCP Address Pool	-	
Q Diagnostics ^	IP-MAC Binding	Status)	Corrupted/Oversized/				
Info Center	IP SOURCE GUARD	Status) Attribute Fiber	Conflicts				
Network Tools	CPP						
Fault Collection							
Cable Diagnostics		VLAN INTO (SVI@Routed Port) UNS: G Refresh					
System Logs		VLAN1 VLAN7 VLAN10 VLAN100 VLAN200	Routed Port Gi5 Routed Port Gi9	Routed Port Gi11 Ro	outed Port Gi12	Routed Port Ag1 Re	outed Port Ag2
Alerts		Interface	IP	DHCP Address Pool		Remark	
ter System V		Gi1-3,Gi6-8,Gi10,Gi13-24,Te25-28	192.168.110.74			VLAN0001	
		1 3 5 7 9 11 13 15 17 19 21 23 17	19 21 23				
Collapse							

VLAN Info

Display the information of VLAN, SVI, Routed Port

Info Center	VLAN Info (SVI	&Routed Port)	DNS: 0	Refresh						
Port Info	VLAN1 VLA	N7 VLAN10	VLAN100	VLAN200	Routed Port Gi5	Routed Port Gi9	Routed Port Gi11	Routed Port Gi12	Routed Port Ag1	Routed Port Ag2
VLAN Info		Interface			IP		DHCP Address P	lool	Rem	ark
Routing Info	Gi1-3,Gi6-8,Gi10,Gi13-24,Te25-28			192.168.110.74				VLAN	0001	
DHCP Clients										
ARP List		7911 1 3	15 17 19 2	1 23 17	19 21 23					
MAC										
DHCP Snooping	2 4 6	8 10 12 14	16 18 20 2	2 24 18	20 22 24 25	26 27 28				

Routing Info

Display device's Routing information

Info Center Routing Info Q © Refresh Tip: Up to 500 entries can be added. Port Info Interface IP Subnet Mask Next Hop VLAN Info 192.168.7.1 192.168.6.0 255.255.255.0 VLAN7 Routing Info 192.168.110.1 VLAN1 0.0.0.0 0.0.0.0 DHCP Clients Null 192.168.1.0 255.255.255.0 ARP List

Configuration

DHCP Clients

Display device's DHCP Clients information

1 Info	DHCP Clients					
Center	Tip: Up to 1000 entries can be added.			Search by Hostnan	ne/IP/MA(Q	Q Refresh
Port Info	Hostname	IP	MAC	Lease Time(Min)	Min) Status	
VLAN Info	EW1200G-PRO-00E795	192.168.7.150	70:85:c4:00:e7:95	349	Dyna	mic
Routing Info	Honor_V10-38d9e63c47322cf	192.168.7.152	bc:e2:65:9a:8d:be	349	Dynamic	
DHCP Clients	*	192.168.7.153	4c:02:20:55:cc:f7	360	Dyna	nic
ARP List						

DHCP Clients

Display DHCP Clients information of devices

lnfo Center	ARP List				
Port Info	Tip: Up to 2000 entries can be added.			Search by IP/MAC	Q Q Refresh
VI AN Info	Interface	IP	MAC	Туре	Reachable
Pouting Info	VLAN7	192.168.7.151	cc:2f:71:e2:4a:a5	Dynamic	Yes
DUCD Climits	VLAN1	192.168.110.1	30:0d:9e:e7:e9:15	Dynamic	Yes
DHCP Clients	VLAN7	192.168.7.150	70:85:c4:00:e7:95	Dynamic	Yes
ARP List	VLAN1	192.168.110.84	c0:b8:e6:9a:43:0d	Static	Yes
MAC	VLAN7	192.168.7.153	4c:02:20:55:cc:f7	Dynamic	Yes
DHCP Snooping	VLAN7	192.168.7.1	30:0d:9e:9a:07:e8	Static	Yes
IP-MAC Binding	VLAN7	192.168.7.152	bc:e2:65:9a:8d:be	Dynamic	Yes
IP SOURCE GUARD					

MAC

Display the MAC address table of device.

Q © Refresh

Info Center	MAC			
Port Info	Tip: Up to 16K entries can be added.		Search by MAC \lor	Q Refresh
VLAN Info	Interface	MAC	Туре	VLAN ID
Routing Info	Gi20	70:85:C4:00:E7:95	Dynamic	7
DUCE Clients	Gi20	4C:02:20:55:CC:F7	Dynamic	7
APPlict	Gi18	68:F7:28:CC:10:61	Dynamic	1
ARPLIST	Gi20	BC:E2:65:9A:8D:BE	Dynamic	7
DHCP Snooping	Gi18	AC:E0:10:1E:34:41	Dynamic	1
IP-MAC Rinding	Gi18	30:0D:9E:02:64:2C	Dynamic	1
	Gi18	C0:B8:E6:E6:8D:77	Dynamic	1
CDD	Gi18	30:0D:9E:9A:07:E8	Dynamic	7
CFF	Gi18	30:0D:9E:E7:E9:15	Dynamic	1
	Gi18	C0:B8:E6:9A:43:0E	Dynamic	1
	Total 13 10/page V C 1 2 >	Go to page 1		

DHCP Snooping

Display the DHCP Snooping of devices

Info Center	DHCP Snooping				
Port Info	DHCP Snooping: Enabled	Option82: Disal	oled	Trusted Port: Gi13,Gi6 GRefres	h
	DHCP Snooping Binding Entries from the	e Trusted Port			
VLAN Info	Interface	IP	MAC	VLAN ID	Lease Time(Min)
ARP List	Gi13	192.168.110.124	AC:E0:10:1E:34:41	1	30
MAC					
DHCP Snooping	IP-MAC Binding				
IP-MAC Binding					
IP SOURCE GUARD	Tip: Up to 500 entries can be added.			Search by IP Address	Q Refresh
PoE	Port		IP		MAC
CPP	Gi1		192.168.10.100		00:01:6C:06:A6:29
			192.168.10.200		30:0d:9e:60:ef:73

IP-MAC Binding

Info Center IP-MAC Binding Search by IP Address Tip: Up to 500 entries can be added. Port Info Port IP MAC VLAN Info Gi1 00:01:6C:06:A6:29 192 168 10 100 A N E ► IF IF

Display IP-MAC Binding information of device

ARP List	Gi		192.108.1	10.100	00.01.0	C.06.A0.29
MAC	Gi2		192.168.1	0.200	30:0d:	9e:60:ef:73
DHCP Snooping	1					
IP-MAC Binding	IP SOURCE GUARD					
IP SOURCE GUARD	Tip: Up to 1280 entries can be added	ed.		Search by IP Address		Q C Refresh
PoE	Interface	Rule	IP	MAC	VLAN ID	Status
CPP			No Da	ata		

IP SOURCE GUARD

Display IP SOURCE GUARD information of device

info Center	IP SOURCE GUARD							
Port Info	Tip: Up to 1280 entries can be add	ded.		Search by IP /	Address 🗸		Q Q Refresh	
VLAN Info	Interface	Rule	IP	MAC		VLAN ID	Status	
ARP List	P List No Data							
MAC								
DHCP Snooping	PoE							
IP-MAC Binding	-							
IP SOURCE GUARD POE	370w Tota Transmit P wer Free Trans	smit Power Ow Transmit Power Ow mit Power 370w	Ow Peak Transmit Power	0 Powered Ports	Ene Transi	ergy Saving mit Power Mode	Ow Reserved Transmit Power	
CPP	Port	PoE Status	Transmit Power Status	Priority Curren	t Transmit Power (W)	Non-Standard	Work Status	

POE



 Info Center 	PoE							
Port Info VLAN Info	Tota	370w Transmit Piwer Free Trans	nsmit Power Dw Transmit Power Ow smit Power 370w	Ow Peak Transmit Power	Powe	0 E ered Ports Tra	nergy Saving nsmit Power Mode	0w Reserved Transmit Power
ARP List		Port	PoE Status	Transmit Power Status	Priority	Current Transmit Power (W)	Non-Standard	Work Status
DHCP Snooping	>	Gi1	Enable	Off	Low	0	No	PD Disconnected
IP-MAC Binding	>	GI2	Disable	Off	Low	0	No	PD Disconnected
IP SOURCE GUARD	>	GI3	Disable	Off	Low	0	No	PD Disconnected
PoE	>	Gi4	Enable	Off	Low	0	No	PD Disconnected
CPP	>	G15	Enable	Off	Low	0	No	PD Disconnected
	>	Gi6	Enable	Off	Low	0	No	PD Disconnected
	>	Gi7	Enable	Off	Low	0	No	PD Disconnected
	>	Gi8	Enable	Off	Low	0	No	PD Disconnected
	>	Gi9	Enable	Off	Low	0	No	PD Disconnected
	>	GI10	Enable	Off	Low	0	No	PD Disconnected

CPP

Display CPP information of devices.

VLAN Info				
Routing Info	СРР			
DHCP Clients	Total CPU bandwidth: 2000pps 🛛 😋 Refresh			
ARP List	IP Protocol Number	Rate	Current Rate	Total messages
MAC	bpdu	60pps	Opps	0
DHCP Snooping	lldp	50pps	Opps	1278
IP-MAC Binding	rldp	50pps	Opps	0
IP SOURCE GUARD	lacp	600pps	Opps	0
► CPP	arp	400pps	2pps	11298
	dhcp	600pps	Opps	528
	icmp	600pps	Opps	954
	macc	600pps	Opps	3687
	mqtt	600pps	Opps	0
	http/https	1600pps	7pps	10029
	Total 24 10/page < 1 2 3 >	Go to page 1		

4.3.7.2 Network Tools

The Network Tools module provides the following network tools to detect the network status: Ping, Traceroute, and DNS Lookup.

Reyce	test123_1_Auto > NB55200 ●
Home	
VLAN	Vetwork Tools
Monitor ~	Tool O Ping O Traceroute O DNS Lookup
🗟 Ports 🗠	* IP Address/Domain www.google.com
L2 Multicast	* Ping Count 4
L3 Interfaces	* Packet Size 64 Bytes
Security ~	Start Stop
🗄 Advanced 👋	Result
Q Diagnostics ^	
Info Center	
Network Tools	
Fault Collection	
Cable Diagnostics	
System Logs	
Alerts	
System 🗸	

Ping

Test whether the node is reachable.

Ping	ute 🔘 DNS Lookup		
www.ruijienetworks.c	om		
4			
64	Bytes		
Start	Stop		
ienetworks.com (117.27	7.142.24): 64 data bytes		
117.27.142.24: seq=0 ti	tl=51 time=9.999 ms		
117.27.142.24: seq=1 ttl=51 time=0.000 ms			
n 117.27.142.24: seq=2 ttl=51 time=0.000 ms n 117.27.142.24: seq=3 ttl=51 time=0.000 ms			
	 Ping Tracero www.ruijienetworks.c 4 64 Start ienetworks.com (117.27) 117.27.142.24: seq=0 tit 117.27.142.24: seq=2 tit 117.27.142.24: seq=2 tit 117.27.142.24: seq=3 tit 		

Traceroute

Count the number of hops or communication links from one point to another and the time it takes for each hop.

i Network Tools		
Tool	🔿 Ping 💿 Tracerout	te 🔿 DNS Lookup
* IP Address/Domain	172.26.6.124	
* Max TTL	20	
	Start	Stop
traceroute to byte packets 1 192.168.11 ms 2 172.26.6.12	72.26.6.124 (172.26.6.124).1 (192.168.110.1) 0.000 4 (172.26.6.124) 0.000 m	4), 20 hops max, 38 ms 0.000 ms 0.000 is 0.000 ms 0.000 ms

DNS Lookup

Resolve the domain to the IP address.

www.ruljienetworks.com	m
Start	Stop
.1	
.0.1 localhost	
uijienetworks.com	
d6:6612::a1	
	Start .1 .0.1 localhost uijienetworks.com d6:6612::a1 7.142.24

4.3.7.3 Fault Collection

The **Fault Collection** module allows you to collect faults by one click and download the fault information to the local device

Ruijie Rcycc	test123_1_Auto > NBS5200 ●	English ~	C Ruijie Cloud	證Download App	🗟 Wizard	🕒 Log Ou
_{δ⁰δ} Home						
£ [₽] VLAN	Compress the configuration file for engineers to identify fault.					
문 Monitor ~	Start					
Ports ~						
L2 Multicast						
L3 Interfaces						
⊘ Security ~						
🖹 Advanced						
Ø Diagnostics ^						
Info Center						
Network Tools						
Fault Collection						
Cable Diagnostics						
System Logs						
Alerts						
😤 System 🗸						

Click Start to download the fault information.

Duite Bours	tect123.1 Auto > NIDSE200.0	Downloads		
Kujie I mRCyCC		tech-support-2022-04-18-13-5	5-47-G1RH15Q004	[
Ports		Cas mare		
L2 Multicast	Fault Collection Compress the configuration file for engineers to identify fault.	see more		
L3 Interfaces	Start			
⊘ Security ~				
🖻 Advanced 🗸 🗸				
Q Diagnostics				
Info Center				
Network Tools				
Fault Collection				
Cable Diagnostics				
System Logs				
Alerts				
-B- -B- System				

4.3.7.4 Cable Diagnostics

An administrator can detect the working status of cables via the cable diagnostics command. Cable diagnostics helps determine whether a cable is short-circuited, disconnected, or in other abnormal state.

Reyee Cookbook

Ruíjie Rcycc	test123_1_Auto > NB55200 0	E	nglish ~ 🛛 Ruijie Cloud	讀Download App	♦ Wizard 🕒 Log C
and Home	Tenergy				
≝ [₽] VLAN	Port Panel				
图 Monitor ~	Available Unavailable Unavailable Dopper				
Ports ~	1 3 5 7 9 11 13 15 17 19 21 23 17 19 21 23				
 L2 Multicast 	2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26 27 28				
L3 Interfaces	Note: You can click and drag to select one or more ports. Select All Inverse Deselect				
⊘ Security ~	Start				
🖻 Advanced 🛛 🗸	Result				
Diagnostics	Port	Cable Length (cm)	Re	sult	
Info Center		No Data			
Network Tools					
Fault Collection					
Cable Diagnostics					
System Logs					
Alerts					
😤 System					

Select the target port on the port panel, and click **Start.** The device returns the diagnostics result after a period of time and displays it in the result list.

Available Unavailable	TUplink Copper	
1 3 5 7 9 11 13 15 17 19 21 23 17 19	21 23	
2 4 6 8 10 12 14 16 18 20 22 24 18 20	22 24 25 26 27 28	
Note: You can click and drag to select one or more ports.	Select All Inverse Deselect	
Start		
Popult		
Result		
Result	Cable Length (cm)	Result
Result Port Gi18	Cable Length (cm) 600	Result OK
Result Port G118 G120	Cable Length (cm) 600 1100	Result OK OK

Only copper ports support cable diagnostics while fiber ports and aggregate ports do not.

If cable diagnostics is executed on a normally connected interface, the connection is temporarily down and will be reestablished.

4.3.7.5 System Logs

The System Logs module provides logs recording the device's running status and configuration change, which provides a reference for troubleshooting.

Reyee Cookbook

Ruíjie Rcycc	test123_1_Auto > NBS5200 @				0	English ~	CRuijie Cloud	證Download App	♦ Wizard [∃Log Ou
🖧 Home	Control Law									
≝ ^p VLAN	View system logs.									
문 Monitor 🗸 🗸	Log List							Search		Q
Ports	Time	Туре	Module		Details					
 L2 Multicast 	Apr 18 00:41:38	kern.crit	kernel	%Port-2: GigabitEthernet18 link up						
L3 Interfaces	Apr 18 00:41:39	local.info	syslog	%L3-6: Manage VLAN 1 change to UP						
C Carutty V	Apr 18 00:41:39	local.info	syslog	%L3-6: VLAN 7 change to UP						
Security	Apr 18 00:41:39	local.info	syslog	%L3-6: VLAN 10 change to UP						
🖻 Advanced 🛛 🗠	Apr 18 10:12:35	kern.crit	kernel	%Port-2: GigabitEthernet21 link up						
Q Diagnostics ^	Apr 18 10:17:09	kern.crit	kernel	%Port-2: GlgabltEthernet21 link down						
Info Center	Apr 18 10:24:20	kern.crit	kernel	%Port-2: GlgabitEthernet20 link up						
Network Tools	Apr 18 10:24:39	kern.crit	kernel	%Port-2: GigabitEthernet20 link down						
Fault Collection	Apr 18 10:24:41	kern.crit	kernel	%Port-2: GigabitEthernet20 link up						
Cable Diagnostics	Apr 18 10:27:19	kern.crit	kernel	%Port-2: GigabitEthernet20 link down						
System Logs	< 1 2 3 4 5	> 10/page ~							Te	otal 47
Alerts										
😤 System 🗸										

4.3.7.6 Alerts

The **Alarms** module contains alarm events that may cause network errors or affect device performance. It also provides guidance to help users clear the alarms.

Ruijie #Rcycc	test123_1_Auto > NBS5200 0	English ~ _ Chuijie Cloud 웲Download App 🔮 Wizard 급Log O
Ruffe &Rcycc Image: Second	test123_1_Auto > NB55200 • Alerts Current Alert Removed Alert Loops Occur Delete Unfollow	English ~ Aujje Cloud M Download App & Wizard C Log O Details 2022-04-18 20:37:52 Gi18:warning neighbor Gi20; Influence The network speed may be slow or network connection fails, or the bandwidth is run out. Suggestion Check the ports where the loops occur. Locate the ports where the loops occur. Change RLDP Settings Change RLDP Settings Active cancellation of loop alarm. If the "how to recover" function is not turned on, you need to go to rldp and click "Reset". If the alarm still exists in the network, remove it from step 1.
Fault Collection Cable Diagnostics System Logs		
🕆 System 🗸		
// Collanse		

Delete

Reyee Cookbook

Alerts Current Alert Removed Alert	Details 2022-04-18 20:37:52 Gi18:warning neighbor Gi20; Influence
Loops Occur Delete Unfollow	 The network speed may be slow or network connection fails, or the bandwidth is run out. Are you sure you want to delete the alarm? × If you want to unfollow the alarm, please click Unfollow on the right. If you delete an unhandled alarm, the alarm will appear again later. You can delete a handled alarm. The system will automatically delete an alarm not appearing again over a period of time. Cancel OK OK

Unfollow

Current Alert Removed Alert	Details 2022-04-18 20:37:52 Gi18:warning neighbor Gi20;
Loops Occur Delete Unfollow	Influence Internetwork speed may be slow or network connection fails, or the bandwidth is run out. Suggestion Are you sure you want to unfollow the alarm and delete it from the alarm list? After being unfollowed, an alarm will not appear again. You can click View Unfollowed Alert to re-follow an unfollowed alarm. Idp and click "Reset". If the alarm still exists in the network, remove it from step 1.

4.3.8 System

The **System** module allows you to perform a series of settings, including the system time, login password, upgrade, and backup and restoration.

4.3.8.1 System Time

The **System Time** module allows you to set the system time. The system time is synchronized with the NTP server by default.

Select a time zone and set at least one NTP server, and click Save.

Ruíjie MRCy	/CC	test123_1_Auto > NBS5	5200 🔍	
A Home				
E VLAN		 Configure and vie 	ew system time (The device	has no RTC m
🕾 Monitor	~	Current Time	2022-04-18 00:08:07	Edit
Ports	~	* Time Zone	(GMT+8:00)Asia/Hong	Kong 🗸 🗸
L2 Multicast		* NTP Server	0.cn.pool.ntp.org	Add
L3 Interfaces			1.cn.pool.ntp.org	Delete
Security	~		cn.pool.ntp.org	Delete
🖹 Advanced	~		pool.ntp.org	Delete
Ø Diagnostics	~		asia.pool.ntp.org	Delete
😤 System	^		europe.pool.ntp.org	Delete
System Time			rdate.darkorb.net	Delete
Login			Savo	
Management			Jave	

The device has no RTC module and does not save the time after restart.

4.3.8.2 Login

The Login module allows you to perform a series of settings, including the Login Password and Session Timeout.

1.1 Login Password

The **Login Password** page allows you to set the device's login password. You need to log in to the system again after changing the password.

Enter the **old** and **new** passwords (at least 6 characters long), and click **Save**. (Please keep the login password in mind.)

Ruíjie #Rcyco	test123_1_Auto > NB55200 0	English ~	Auijie Cloud	韻Download App	🔮 Wizard	🕒 Log (
倒 Monitor 🗸 🗸	Login Password Session Timeout					
Ports ~	() Change the login password. Please log in again with the new password later.					0
L2 Multicast	* Old Password					
L3 Interfaces						
⊘ Security ~	* New Password					
음 Advanced 🗸	* Confirm Password					
Diagnostics	Save					
書 System 个						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
«Collapse						

1.2 Session Timeout

The Session Timeout page allows you to set the session timeout period for logging to the eWeb management system.

Enter the timeout period in seconds and click Save.

Ruijie #Rcycc	test123_1_Auto > NB\$5200 0	English ~	Cloud Ruijie Cloud	鼹Download App	💩 Wizard	🕞 Log O
愛 Monitor ~	Login Password Session Timeout					
Ports ~	i Session Timeout					0
L2 Multicast	* Session Timeout 3600 seconds					
L3 Interfaces	Seconds Seconds					
⊘ Security ~	Save					
🖹 Advanced 🛛 🗠						
Diagnostics V V						
💱 System 🔷						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
<pre>«Collapse</pre>						

4.3.8.3 Management

The Management module includes Back & Import and Reset.

1.1 Backup & Import

The **Backup & Import** page allows you to import a configuration file and apply the imported settings. It also allows exporting the configuration file to generate a backup.

Backup

Click Backup to export your current configuration in a file. It is recommended to do a backup before upgrading.

Ruíjie	test123_1_Auto > NB55200 0	English ~	🛆 Ruijie Cloud	髋Download App	🖨 Wizard	🕒 Log (
± monto	Participa Disease - Parts					
@ Ports	Dackup or import neset					
L2 Multicast	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later.					?
U3 Interfaces	Backup Config					
⊘ Security ~	Backup Config Backup					
음 Advanced 🗸						
Diagnostics `` ` `` `	Import Config					
🐮 System 🔷	File Path Please select a file. Browse Import					
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Reboot						
«Collapse						

A configuration file with the suffix tar.gz will be downloaded

Ruíjie #Rcycc	test123_1_Auto > NB55200 0 Eng	Downloads □ Q ··· & backup-NBS5200-NBS5200-245FP_BGT4XS-2022-0	🕞 Log O
愛 Monitor 🗸	Backup & Import Reset	See more	
Ø Ports			
L2 Multicast	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later.		?
L3 Interfaces	Backup Config		
⊘ Security ~	Backup Config Backup		
🗄 Advanced 🛛 👋	Import Config		
Diagnostics `` ` ` `` ` ` ` `` `` `` ``	File Path Please select a file. Browse Import		
😂 System 🔷			
System Time			
Login			
Management			
Upgrade			
Scheduled Reboot			
<pre>«Collapse</pre>			

Import Config

Click **Browse** to select the configuration file to import.

Ruíjie Rcycc	test123_1_Auto > NB55200 0	English ~	Auijie Cloud	器Download App	🗟 Wizard	🕞 Log O
문 Monitor 🗸	Backup & Import Reset					
Ports ~						
 L2 Multicast 	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later.					?
L3 Interfaces	Backup Config					
⊘ Security ~	Backup Config Backup					
🗄 Advanced 🛛 🗸	Import Config					
Diagnostics	File Path Please select a file. Import					
System						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
«Collapse						

Click Import to import a configuration file to restore your configuration.

Ruíjie l &Rcycc	test123_1_Auto > NBS5200 0	English ~	Cloud	畿Download App	🔮 Wizard	⊡ Log C
문 Monitor 🗸	Backup & Import Reset					
Ports ~						
 L2 Multicast 	If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later.					?
L3 Interfaces	Backup Config					
⊘ Security ~	Backup Config Backup					
🗄 Advanced 🗸 🗸	Import Config					
② Diagnostics ~	File Path backup-NBS5200-NI Browse Import					
System ^						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Collapse						

Click **OK** in the dialog box.

Ruijie Rcycc	test123_1_Auto → NB55200 ●					
Ruffie &Rcycc Image: Anticast Image: Anticast Image: A	test123_1_Auto > NB55200 Backup & Import Reset If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later. Backup Config Backup Config Backup Config Backup File Path backup-NB55200-NI File Path backup-NB55200-NI Cancel ok	English ~	Auijie Cloud	設Download App	♦ Wizard	<u></u>

f The target version is much later than the current version, some configurations may be missed.

It is recommended to choose Reset before importing the configuration. The device will be rebooted automatically later.

1.2 Reset

The **Reset** page allows you to restore the device to factory settings.

Please exercise caution if you want to restore the factory settings.

Resetting the device will clear the current settings. If you want to keep the configuration, please Backup Config first.

Ruíjie Rcycc	test123 > NBS3100 0	English ~	Cloud Ruijie	器Download App	🖨 Wizard	🕞 Log (
- 攵 Monitor ~	Backup & Import Reset					
Ø Ports	Resetting the device will clear the current settings. If you want to keep the configuration, please Backup Config first.					0
L2 Multicast	Reset					
⊘ Security ~						
🖻 Advanced 🗸						
Diagnostics						
😤 System 🔷						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Reboot						
<pre>«Collapse</pre>						

Click **OK** to restore all default values. This function is recommended when the network configuration is incorrect or the network environment is changed.

Ruíjie Rcycc	test123 > NBS3100 0			
Monitor Monitor Moltar L2 Multicast	Backup & Import Reset Image: Resetting the device will clear the current settings. If you want to keep the configuration, please Backup Config first. Reset			0
 ⊘ Security ◇ Advanced ◇ Q Diagnostics ◇ ⇒ System 	Tip × Image: Selecting the device will clear the current settings and reboot the device. Do you want to continue? Cancel OK			
System Time Login Management Upgrade Scheduled Reboot Reboot «Collapse				

4.3.8.4 Upgrade

The Upgrade module includes Online Upgrade and Local Upgrade.

1.1 Online Upgrade

The Online Upgrade page allows online upgrading. When detecting an available online upgrade version, the device displays information about the available upgrade version, as shown in the figure below:

Reyee Cookbook

Rujje	test123_1_Auto > NBS5200 ❶	English ~	Auijie Cloud	器Download App	🔮 Wizard	G Log O
- monitor						
Ports	Online Upgrade Local Upgrade					
L2 Multicast	(j) Online upgrade will keep the current configuration. Please do not refresh the page or close the browser. You will be red	rected to the lo	gin page automatic	ally after upgrade.		
L3 Interfaces	Current Version ReyeeOS					
🛇 Security 🗸 🗸	New Version ReyeeOS + SWITCH_3.0(1) Release(08181817)					
🗄 Advanced 🛛 👋	Description No description					
	Tip 1. If your device cannot access the Internet, please click Download File.					
🏝 System 🔷 🔿	2. Choose Local opgrade to upload the file for local upgrade. Upgrade Now					
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Reboot						
«Collapse						

Click **Upgrade Now.** The device downloads the upgrade package from the network, and upgrades the current version. The upgrade operation retains configuration of the current device. Alternatively, you can select Download File to the local device and import the upgrade package on the Local Upgrade page. If there is no available new version, the device displays a prompt indicating that the current version is the latest.

Ruíjie	test123 > NBS3100 0 English ~ @Ruijie Cloud 😫 Download App 🔌 Wizard 🕞 Log
쭏 Monitor ~	Online Upgrade Local Upgrade
Ports	Online upgrade will keep the current configuration. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after upgrade.
L2 Multicast	Current Version ReyeeOS 1.83.1511 (It is the latest version.)
⊘ Security ~	
🖻 Advanced 🗸 🗸	
🔮 System 🔷	
System Time	
Login	
Management	
Upgrade	
Scheduled Reboot	
Reboot	
«Collapse	

Online upgrade will maintain the current configuration. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after upgrading.

1.2 Local Upgrade

Click **Browse** to select an upgrade package.

Rujje &Rcycc	test123_1_Auto > NBS5200 English ~ _ ⊘Ruijie Cloud 畿Download App	🖨 Wizard	🕒 Log Out
T. 1101101			-
Ports ~	Online Upgrade Local Upgrade		
L2 Multicast	1 Please do not refresh the page or close the browser.		0
L3 Interfaces	Model NBSS200-24SFP/8GT4XS		
⊘ Security ~	Current Version ReyeeOS 1.83.1512		
🗄 Advanced 🛛 👋	Keep Config 😰 (If the target version is much later than the current version, it is recommended not to keep the configuration.)		
Diagnostics `` ` ` `` ` ` `` ` `` `` `` `` `` `` `` `` `` `` ` ` `	File Path Please select a file. Browse Upload		
💱 System 🗠			
System Time			
Login			
Management			
Upgrade			
Scheduled Reboot			e
Reboot			Ai
«Collapse			

Click Upload.

Rujje	test123 > NBS3100 0	English ~	CRuijie Cloud	證Download App	🖨 Wizard	🕞 Log O
문 Monitor ~	Online Upgrade Local Upgrade					
Ports ~	Please do not refresh the page or close the browser.					0
L2 Multicast	Model NBS3100-24GT4SFP-P					
⊘ Security ~	Current Version ReyeeOS 1.83.1511					
🖹 Advanced 🗸 🗸	Keep Config 🗧 (If the target version is much later than the current version, it is recommended not to keep the config	guration.)				
Diagnostics `` ` ` `` ` ` ` `` `` `` ``	File Path SWITCH_3.0(1)B11P8 Browse Upload					
🚔 System 🔷						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Reboot						
<pre>«Collapse</pre>						

After uploading and checking the package, the device displays the upgrade package information and a prompt asking for upgrade confirmation, click **OK** to start the upgrade.

If the target version is much later than the current version, it is recommended not to retain the settings (uncheck **Keep Setup**).

The upgrade takes a period of time. Do not refresh the page or close the browser during the upgrade.

4.3.8.5 Scheduled Reboot

Enable Scheduled Reboot, set the day and time when the system needs to be rebooted, and click Save.

Ruíjie	test123 > NBS3100 English ~	🛆 Ruijie Cloud	器Download App	会 Wizard	⊖Log (
문 Monitor ~	<i>i</i> It is recommended to set the scheduled time to a network idle time, e.g., 2 A.M				
Ports ~	Enable 💽				
L2 Multicast	Day 😰 Mon 😰 Tue 😰 Wed 😰 Thu 😰 Fri 😰 Sat 😰 Sun				
⊘ Security ~	Time 03 ~ : 00 ~				
🗄 Advanced					
Diagnostics	Jave				
System					
System Time					
Login					
Management					
Upgrade					
Scheduled Reboot					
Reboot					
«Collapse					

When this function is enabled, the system will be rebooted at scheduled time.. Off-peak hours are recommended for the reboot.

4.3.8.6 Reboot

The **Reboot** module provides a **Reboot** button.

Click **Reboot**, and click **OK** in the confirmation box. The device is rebooted and you need to log in to the eWeb management system again after rebooting but please do not refresh the page or close the browser during the reboot. After the device is successfully rebooted and the eWeb service becomes available, you will be redirected to the login page of the eWeb management system.

Ruíjie #Rcyc	E test123 > NB53100 ♥	English ~	Cloud Ruijie Cloud	器Download App	🗟 Wizard	🕒 Log O
문 Monitor	Please keep the device powered on during reboot.					0
Ports	Reboot					
L2 Multicast						
⊘ Security						
Advanced						
Ø Diagnostics						
😫 System						
System Time						
Login						
Management						
Upgrade						
Scheduled Reboot						
Reboot						
<pre>«Collapse</pre>						

4.4 Reyee Access Point Configuration

4.4.1 Wireless Configuration

4.4.1.1 Wireless Basic Configuration

	01:1: 14		STAR STAR STAR STAR
I ONTIGUISA THA WUISALASS H	V (licking V	Viralass ->APs->Manad	10-2WIRDIDEE-2WI-FI
- 0	J - J		

	Hostname: RAP2260 MAC:	SN:	IP: 192.168.110.4	(U) Reboot
Overview Basics ~	Wireless ~ Advanced ~	Diagnostics ~ System ~		
Wi-Fi Settings Gue	est Wi-Fi Wi-Fi List He	althy Mode		
The slave AP is	managed by the master AP an	d cannot be edited locally.]	0
		and an be reconnected.		
WI-FI Settings				
* SSID	Reyee_test			
Band	2.4G + 5G			
Security	WPA_WPA2-PSK			
* Wi-Fi Password		7115		

4 It will be found that it cannot be configured at this time, because the SON role of the AP is slave AP, so the SSID can only be configured in the following ways:

Click Wireless-Wi-Fi-Wi-Fi settings to Configure Wireless

	Wi-Fi Settings Gues	st Wi-Fi Wi-Fi List	Healthy Mode	
(R) Online Clients				
9				
Router	Tip: Changing con	ifiguration requires a reboot a	ind clients will be reconnecte	}d.
♥ Wireless	Wi-Fi Settings	Device Group: Default	~	
APs	* SSID	Reyee_test		
Wi-Fi	Band	2.4G + 5G	~	
Clients				
Blacklist/Whitelist	Security	WPA_WPA2-PSK	M	
Radio Frequency	* Wi-Fi Password	•••••	> ₇₇₇ ~	
LAN Ports		Expand		
LED		Save		
Network Optimization				

Reyee Cookbook

(8) Online Clients	Wireless Schedule	II Time v	
Router	VLAN	۰ د	
	Hide SSID	(The SSID is hidden and must be m	anually entered.)
APs	AP Isolation	(The client joining this Wi-Fi netwo	k will be isolated.)
Wi-Fi Clients	Band Steering	(The 5G-supported client will access	5G radio proferentially)
Blacklist/Whitelist	band steering	(The SO-supported client will acces	s so radio preferenciany.)
Radio Frequency	XPress	(The client will experience faster spo	eed.)
LAN Ports	Layer-3 Roaming	(The client will keep his IP address u	unchanged in this Wi-Fi network.)
LED	Wi-Fi6	(802.11ax High-Speed Wireless Cor	nectivity.) 🕐
Network Optimization		Save	
Network Optimization		Save	

SSID: Wi-Fi Name

Band: Three modes, 2.4G, 5G or both on

Security: Open, WPA-PSK, WPA2-PSK, WPA2-PSK

Security	WPA2-PSK	^]
* Wi-Fi Password	Open		
	WPA-PSK		
	WPA2-PSK		
Wireless Schedule	WPA_WPA2-PSK		

Wireless Schedule: it is used to choose the time when Wi-Fi takes effect.

Wireless Schedule	All Time	^
VLAN	All Time	
	Weekdays	
Hide SSID	Weekends	nanually entered.)
	Custom	

Band	2.4G + 5G								
	· · · · · · · · · · · · · · · · · · ·		Mon	Tue	Wed	Thu	Fri	Sat	Sun
Security	WPA2-PSK	00:00	mon	iac	mea	THU		but	Jun
		01:00							
		02:00							
* Wi-Fi Password	•••••	03:00							
		04:00							
		05:00							
~		06:00							
\sim	(07:00							
Wireless Schedule	Custom	08:00							
		09:00							
		10:00							
* Date	Wireless Sche	11:00							
		12:00							
VLAN	10	13:00							
VLAN	10	14:00							
		15:00							
Hide SSID	(The SSI	16:00							
That bold		12:00							
		19.00							
AP Isolation	(The clie	20.00							
		21.00							
		22:00							
Band Steering	(The 5G-	23:00							
		22.50							



AP isolation: SSID-based client isolation

Band Steering: 5G-Prior Access detects clients capable of 5 GHz operation and steers them to that frequency, while

leaving 2.4 GHz available for legacy clients. It is not recommended to enable this function if most of clients only support 2.4GHZ

XPress: enable faster speed

Layer-3 Roaming: The client will keep his IP address unchanged in this Wi-Fi network, Layer 3 roaming of Reyee AP can only be enabled here, and Ruijie Cloud only supports Ruijie AP.

Wi-Fi 6: Some wireless adapters of old versions may not be compatible. The end points accessing the Wi-Fi6 network must support 802.11ax.

4.4.1.2 Guest Wi-Fi Configuration

Click Wireless->Wi-Fi->Guest Wi-Fi to Configure Wireless

The guest Wi-Fi is disabled by default. You can enable the guest Wi-Fi on below page or Homepage.

Reyee Cookbook		(Configuration
[₽] Overview	Wi-Fi Settings Gu	est Wi-Fi Wi-Fi List Healthy Mode	
(8) Online Clients	Tip: Changing of	onfiguration requires a report and clients will be reconnected	
Router	· · · · · · · · · · · · · · · · · · ·		
	Guest Wi-Fi De	vice Group: Default V	
APs	Enable		
Wi-Fi		Save	
Clients			
NE TRANSPORT			
Å Overview	Wi-Fi Settings Gue	st Wi-Fi Wi-Fi List Healthy Mode	
Online Clients	7 Tip: Changing con	figuration requires a reboot and clients will be reconnected.	
Router			
	Guest Wi-Fi Dev	ice Group: Default \lor	
APs	Enable		
Wi-Fi	* SSID	Guest_APP-1	
Clients	Durit		
Blacklist/Whitelist	вапо	2.45 + 55	
Radio Frequency	Security	WPA_WPA2-PSK	
LAN Ports	* Wi-Fi Password	·····	
IED			
• AP isolation is	enabled by defaul	t and cannot be edited.	
2 Overview		Collapse	
Online Clients	Wireless Schedule	Never Disable	
A Router	VLAN	7 ~ ~	
APs	Hide SSID	(The SSID is hidden and must be manually entered.)	
Wi-Fi	AP Isolation	(The client joining this Wi-Fi network will be isolated.)	
Clients	Band Steering ((The 5G-supported client will access 5G radio preferentially.)	
Blacklist/Whitelist	XProce	(The client will experience faster speed)	
Radio Frequency	A ress		
LAN Ports	Layer-3 Roaming ((The client will keep his IP address unchanged in this Wi-Fi network.)	
LED	Wi-Fi6	(802.11ax High-Speed Wireless Connectivity.) 🕐	
Network Optimization			
Do 11		Save	

Set a schedule, and the guest Wi-Fi will be enabled only during this period time. When the time expires, the guest Wi-Fi will be disabled.

Reyee Cookbook											Configurati
윤 Overview			Collap	se							
Online Clients	Wireless Schedule	Never D	oisable			~					
Router	VLAN	Never	Disable								
	Hide SSID	Disable	e 1 Hour L	ater		nan	ually ent	ered.)			
APs		Disable	Disable 6 Hours Later								
Wi-Fi	AP Isolation	Other 1	Гime			Ork	will de is	olated.)			
Clients	Band Steering	О (Т	he 5G-su	oported	client wi	ll access 5	G radio	preferen	tially.)		
overview €	Jecunty	PA_WPA2-P3	N:		<u> </u>						
(8) Online Clients	* Wi-Fi Password •••									×	
Router		Cc		Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	Wireless Schedule	ther Time	01:00 02:00								
APs	Wireless Schedule	ustom	03:00 04:00								
Wi-Fi	* Date 🗮 V	/ireless Sche	06:00 07:00								
Clients	VLAN 7		08:00								
Blacklist/Whitelist			11:00								
Radio Frequency	Hide SSID	(The SSI	13:00 14:00								
LAN Ports	AP Isolation) (The clie	15:00 16:00								
LED	Band Steering) (The 5G-	17:00 18:00 19:00								
Switches	XPress) (The clie	20:00 21:00 22:00								
			23:00								

4.4.1.3 Multiple SSID Configuration

- The Wi-Fi List displays all Wi-Fi networks. The primary Wi-Fi is also listed here and cannot be deleted.
- It is necessary to reboot your device if you want to change your configuration and your network will be reconnected.

A Overview	Wi-Fi Settings Guest Wi-Fi	Wi-Filist Healthy M	nde						
Online Clients									
Router	Tip: Changing configuration	requires a reboot and clients wi	II be reconnected.			0			
	Wi-Fi List Device Group: Default ~								
APs	Up to 8 SSIDs can be added.								
Wi-Fi	SSID	Band	Security	Hidden	VLAN ID	Action			
Clients	Reyee_test	2.4G + 5G	WPA2-PSK	No	10	Edit Delete			
Blacklist/Whitelist Radio Frequency	Internal_APP-1	2.4G + 5G	WPA_WPA2-PSK	Yes	6	Edit Delete			
LAN Ports	IT department	2.4G + 5G	OPEN	No	Default VLAN	Edit Delete			
LED Network Optimization	Guest_APP-1	2.4G + 5G	WPA_WPA2-PSK	Yes	7	Edit Delete			

• Click Add to add a Wi-Fi network. In the displayed dialog box, configure your settings and click **OK** to save your configuration.
Configuration

Ruijie	test123 > RAP2260 Stevel @	Add		× ad App		
a Overview	Wi-Fi Settings Guest Wi-Fi V	() The configurat	ion will take effect after being delivered to AP.			
Online Clients A conter	Tip: Changing configuration requ	* SSID				0
œWireless ^	Wi-Fi List Device Group: Defa	Band	2.4G + 5G 🗸			+ Add
APs	Up to 8 SSIDs can be added.	Security	Open ~			
Wi-Fi	SSID		Collapse		VLAN ID	Action
Clients Blacklist/Whitelist	Reyee_test	Wireless Schedule	All Time 🗸		10	Edit Delete
Radio Frequency	Internal_APP-1	VLAN	Default VLAN		6	Edit Delete
LAN Ports	IT department	Hide SSID	(The SSID is hidden and must be manually		Default VLAN	Edit Delete
LED Network Optimization	Guest_APP-1	AP Irolation	entered.)		7	Edit Delete

4.4.1.4 Healthy Mode

- The **Healthy Mode** module allows you to enable health mode and set a schedule.
- Enable Healthy Mode, and the device will decrease its transmit power to reduce radiation.
- It is necessary to reboot your device if you want to change your configuration and your network will be reconnected.
- Router radiation is much lower than common radiation which doesn't harm to the human body.

received a constraint of the second s	Wi-Fi Settings	Guest Wi-Fi	Wi-Fi List	Healthy Mode
Online Clients		M 1 14	1	
A Router	Tip: Chang	aithy mode, and the ging configuration	e device will deci requires a reboo	ease its transmit power to reduce radiation. and clients will be reconnected.
	Healthy Mo	ode Device Gro	Default	
APs	Er	nable		
Wi-Fi				
Clients		S	ave	
Blacklist/Whitelist				

4.4.1.5 Wireless Client List

• The Clients module displays the wireless clients

¹ Our interview											
55 Overview	<i>i</i> Wireless	Clients									
Online Clients	Lucial and									0.04.4	
🖽 Router	wireless Ci	ent List								G Refresh	Advanced Search
ক Wireless	Username	MAC	IP	SN	Duration	RSSI	Rate	Band	SSID	Channel	Action
APs	Honor_V10-	tenistica d'a	192.168.110.9 7	111200-0004 0004	2022-03-25 14:51:41	-49	6M	5G	Reyee_test	52	Add to Blacklist
Wi-Fi		and the state	102.152.112.2	and the second second	2022 02 25						
Clients	Prom	- K	20	16	15:31:08	-52	422M	5G	Reyee_test	60	Add to Blacklist

Click Advanced Search, and you can search clients by SN and MAC address.

4.4.1.6 Radio Frequency Configuration

Click Wireless—>Radio Frequency to Configure Radio Frequency

The Radio Frequency allows you to configure the Radio Frequency parameters.

Configuration

Reyee Cookbook

2 Overview	0				
Online Clients	Tip: Changing configuration requires a reboot and clients will be reconnected.				
🖹 Router	Radio Frequency Device Group: Default				
♥Wireless ^	Country/Region China (CN)				
APs	2.4G Channel Width 20MHz v	5G Channel Width	Auto		
Wi-Fi	Client Count Limit 32	Client Count Limit	32		
Clients					
Blacklist/Whitelist	Kick-off Threshold ⑦ O Disable -75dBm -50dBm	Kick-off Threshold ⑦	O sable	-75dBm	-50dBm
Radio Frequency	The settings are valid for only master device				

Country/Region: Choose the Country/Region according to your location.

2.4G/5GChannel Width: Different products, different regions may be have different channel width.. If the interference is

severe, choose a lower channel width to avoid network stalling. The access point supports the channel width of 20 MHz and 40 MHz. You are advised to select 20MHz channel width. After changing the channel width, click Save to make the configuration take effect immediately.

Client Count Limit: Limit the number of connected clients. If the access point is associated with too many clients, it will have a lower performance, affecting user experience. After you configure the threshold, new clients over the threshold will not be allowed to access the Wi-Fi network. You can lower the threshold if there is requirement for bandwidth per client. You are advised to keep the default settings unless there are special cases.

Kick-off Threshold: Farther the client is from the access point, lower the signal strength is. When the signal strength is lower than the threshold, the client will be forced offline and select a nearer Wi-Fi signal.

		Viele off Threads and @
APs	Disable -75dBm -50dBm	Disable -75dBm -50dBm
Wi-Fi	The settings are valid for only master device	
Clients	2.4G Channel Auto ~	5G Channel Auto ~
Blacklist/Whitelist	Transmit Power	Transmit Power
Radio Frequency	Auto Lower Low Medium High	Auto Lower Low Medium High
LAN Ports	Roaming Sensitivity O Low 20% 40% 60% 80% High	Roaming Sensitivity O Low 20% 40% 60% 80% High
LED		
Network Optimization	Save	
Switches		

2.4G/5G Channel: When set to Auto, the device will automatically select the best channel according to the environmental interference. Can also choose the best channel identified by Wi-Fi Moho or other Wi-Fi scanning App. Click **Save** to make the configuration take effect immediately. The more devices in a channel, the greater the interference.

Transmit Power: Lower means 25%, Low means 50%, Medium means 75%, High means 100%, the larger the value, the wider the coverage.

A greater transmit power indicates a larger coverage and brings stronger interference to surrounding wireless routers. In a high-density scenario, you are advised to set the transmit power to a small value. The Auto mode is recommended, indicating automatic adjustment of the transmit power.

Roaming Sensitivity:

a) Roaming sensitivity is the rate at which your device selects and switches to the nearest available access point, offering a better signal.

b) A higher roaming sensitivity level indicates a poorer Wi-Fi coverage.

c) If your device will not roam, select a low roaming sensitivity level.

d) If your device will roam, increase the roaming sensitivity level to get a better signal.

A lower level indicates a greater coverage and less frequent roaming.

Advantage: The connection will stay up.

Disadvantage: The signal may be poor.

A higher level indicates a poorer coverage and more frequent roaming

Advantage: The device will send a strong signal.

Disadvantage: The connection will be down briefly when roaming occurs.

Wireless Optimization Example:

Turn on Wi-Fi Moho when SSID is connected, can click channel to view the current environmental channel utilization.

In the figure below, can see that channel 1 is crowded under 2.4G, and channel 13 is the best.



When you want to know which SSID belongs to which channel, can click interface:

The green color represents the currently connected SSID, can select the remaining SSIDs on the top to view which channel belongs to.

When your wireless speed is slow or in the stage of deployment, you can use WI-FI Moho to check, choose the channel with the least interference.



4.4.1.7 Wireless black/whitelist Configuration

The Blacklist / Whitelist module allows you to configure wireless global or SSID-based client blacklist and whitelist. Blacklist and whitelist can achieve full match or prefix match (OUI).

Click Wireless—Blacklist/Whitelist to Configure

Global Blacklist/Whitelist

Click Add to add a blacklisted or whitelisted client. In the displayed dialog box, configure settings and click OK.

Blacklist configuration:

The blacklist is empty by default and all clients will be allowed to access the Internet. You can choose Clients to blacklist manually.

5 Overview	Global Blacklist/Whitelist SSID-Based Blacklist/Whitelist	
Online Clients	All CTAr exact blacklisted CTAr are allowed to accore Wiji i	
Router	Only the writeristed STAS are anowed to access wirth.	
	Blocked WLAN Clients	+ Add 💿 Delete Selected
APs	Up to 30 members can be added.	
Wi-Fi	MAC Remark	Action
Clients	No Data	
Blacklist/Whitelist		
Radio Frequency	< 1 > 10/page ~	Total 0
LAN Ports		
[₽] _b Overview		
③ Online Clients	Global Blacklist/Whitelist SSID-Base Add ×	
Router	All STAs except blacklisted STAs are ss Wi-Fi.	
	Match Type 💿 Full 🔷 Prefix (OUI)	
♥Wireless	MAC Landbling Text	+ Add W Delete Selected
APs	Up to 30 members can be added.	
Wi-Fi	MAC Lest	Action
Clients		
Blacklist/Whitelist	Cancel OK	
Radio Frequency	1 10/page v	Total 0
on Overview	Global Blacklid Mikitalice SSID, Baza	
Online Clients	Add	
Router	All STAs except blacklisted STAs are ss Wi-Fi.	
€Wireless	Blocked WLAN Clients	+ Add Delete Selected
APs.	* MAC 30:0D:9E	
Wi-Fi	Remark test	
Clients		Action
Blacklist/Whitelist	Cancel	
Radio Frequency	1 10/nane v	Total 0

Whitelist configuration:

All online clients will be included into the whitelist by default. You can add or delete whitelist members to allow or forbid clients' accessing to the Internet.

Note: No clients in the whitelist means all clients will be allowed to access Wi-Fi.

& Overview	Global Blacklist/Whitelis	t SSID-Based Blacklist/Whitelist		
Router	All STAs except bla	cklisted STAs are allowed to access Wi-Fi.	• Only the whitelisted STAs are allowed to access Wi-Fi.	
	Allowed WLAN	Clients		+ Add Delete Selected
APs	Up to 30 members of	an be added. Note: If the whitelist contains no cli	ients, all clients will be allowed to access Wi-Fi.	
Wi-Fi		MAC	Remark	Action
Clients Blacklist/Whitelist			No Data	
Radio Frequency	< 1 > 10	/page 🔗		Total 0

a) SSID-Based Blacklist/Whitelist

Blacklist/Whitelist is used to allow or reject a client's request to connect to the Wi-Fi network.

A Note:

OUI matching rule and SSID-based blacklist/whitelist are supported by only RAP Net and P32 (and later versions).

Rules:

- 1. In the Blacklist mode, the clients in the blacklist are not allowed to connect to the Wi-Fi network.
- 2. In the Whitelist mode, only the clients in the whitelist are allowed to connect to the Wi-Fi network.

-2 Over view	Global Blacklist/Whitelist	SSID-Base	sed Blacklist/Whitelist								
3 Online Clients	Blacklist/Whitelist is u	used to allow o	or reject a client'	s request to connect to the Wi-Fi network	с.						
Router	Note: OUI matching r Note: 1. In the Black Z. In the Whit	rule and SSID- dist mode, the elist mode, or	-based blacklist/w e clients in the bla nly the clients in tl	hitelist are supported by only RAP Net ar cklist are not allowed to connect to the W ne whitelist are allowed to connect to the	Id P32 (and later versions Vi-Fi network. Wi-Fi network.).					
Wireless	[
APs	Device Group: Default	√ Vhitelist	O All STAs	except blacklisted STAs are allowed to	e allowed to access Wi-Fi.						
Wi-Fi	Reyee_test choose	e one SSID	Blocked	MIAN Clients			+ Add Delete Selecter				
Clients	Internal_APP-1		Diocked	WLAN Clients			I Add				
Blacklist/Whitelist	IT department		Up to 30	members can be added.							
Radio Frequency	Guest_APP-1			MAC	R	emark	Action				
AN Ports											

4.4.1.8 AP Group Configuration

a) AP group, batch upgrade, delete

All devices are added on default group which cannot be renamed or deleted.

or Overview	•	\P List		/						0
Online Clients Router	AP Li	st Group: All Groups	Expand				IP/MAC/hostname/SI	N/SoftWare Ver C	List Filter	Batch Action ~
		Action	Hostname \$	IP ‡	MAC \$	Status \$	Model \$	Clients \$	Software	e Ver
APs Wi-Fi	G eoder	@ Manage (U Reboot	RAP2260	192.168.110.4	0.0000.000	Online	RAP2260(E)	0	ReyeeOS 1.7	5.2429 ^{new}
Clients		@ Manage (0 Reboot	200	192.168.110.126	APPROPRIATE	Offline	EW1800GX-PRO	0	ReyeeOS 1.	77.1321
Radio Frequency	K	1 > 10/page >								Total 2
(i) AP List										0
AP List Group:	All Groups	Collapse				IP/MAC/hos	tname/SN/SoftWar	e Ver Q	ist Filter B	atch Action $$
Search by Group	+	Action	Host	name ≑	IP \$	MAC \$	Status ≑	Model \$	Clients \$	So
Default d group1 d		ම Manage ()	Reboot RA	P2260 192	.168.110.4	0.753 448	Online	RAP2260(E)	0	Reye
TestSubNetw 🧭 customer gr	2 1	ා Manage 🖒	Reboot	192.	168.110.126	EPs spice	Offline	EW1800GX-PR	0 0	Reyee
() AP List										0
AP List Group: I	Default	Expand				IP/MAC/ho	stname/SN/SoftWa	are Ver Q	List Filter	Batch Action ~
Actio	on	Hostname \$	IP \$	MAC \$	Status \$	Mod	cliei ¢	nts	Software Ve	r
Manage	() Reboot	RAP2260	192.168.110.4	0003065	Online	RAP2	260(E) 0		ReyeeOS 1.75.24	25 new
🗌 💿 Manage	() Reboot	A.44	192.168.110.126	e. 170.Ae.	t = ∦ Offline	EW1800	OGX-PRO 0		ReyeeOS 1.77.1	321

The APs in the default group can be upgraded, deleted in batches or moved to other groups.

Upgrade device

Ar List Group: All Group: All Group: Egond Fight: Action Hostname 0 P MAC 0 Status 0 Model 0 Cents S Software Ver Detect Software Ver Software Ve									0
AP List Clients Software Ust Filter Back Action Action Mostame 0 IP 0 MAC 0 Status 0 Model 0 Clients Software Degree 0 action Image 0 Reboot BAP2200 192.168.110.4 DOFFER:11-03 Online RA222000 0 Repres 0.17.1321 Image 0 Reboot Hert 192.168.110.42 Image 0.110.120 Image	🧭 AP L	ist							0
Action Hostname © IP © MAC © Status © Model © Clients: © Software Upgrade Device Delete Device Manage © Reboot RAP2200 192.163.110.12 © <t< td=""><td>AP List</td><td>Group: All Groups</td><td>Expand</td><td></td><td></td><td></td><td>IP/MAC/hostname/SN</td><td>/SoftWare Ver Q</td><td>List Filter Batch Action ~</td></t<>	AP List	Group: All Groups	Expand				IP/MAC/hostname/SN	/SoftWare Ver Q	List Filter Batch Action ~
Manage 0 Reboot RAP2260 192.163.110.126 INTERCE IF=30 Online RAP2260(E) 0 Repect 5.17.123 Manage 0 Reboot Here 192.163.110.126 INTERCE IF=30 Online RAP2260(E) 0 Repect 5.17.123 Manage 0 Reboot Here 192.163.110.126 INTERCE IF=30 Model Clients Software Repect 5.17.1321 Action Manage 0 Reboot Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321 Repect 5.17.1321	•	Action	Hostname ≑	IP ‡	MAC \$	Status \$	Model \$	Clients \$	Software Delete Device
• Manage © Reboot • • 192.168.110.125 • • • • • • • • • • • • • • •		Manage (්) Reboot	RAP2260	192.168.110.4	2040/0219-02	Online	RAP2260(E)	0	Change Group ReyeeOS 1.75
A P. List Group: All Groups Egand P?AAC/hostname/SM/SolVMark Ver List Filter Bitch Action Action Hostname HP * MAC * Status * Model * Clearts * Software Ver Manage (2) Reboot RA92250 You have selected 1 devices; including 0 unwallable devices (offline or ungraded to the listerst version). Do you wint to ungrade the rest 1 devices? Model * Clearts * Software Ver Manage (2) Reboot R09200 R09200 R09200 R09200 R092000 R092000 R0920000 Manage (2) Reboot R0920 R09200 R09200 R0920000 R092000000 R092000000000 Manage (2) Reboot R09200 R09200000000000000000000000000000000000		Manage 🖱 Reboot	$(0,1)^{(n)}$	192.168.110.126	CARGERING	Offline	EW1800GX-PRO	0	ReyeeOS 1.77.1321
AP List Groups All Groups Expand IP 3 MAC 0 Status 0 Model 0 Clients 0 Software Ver Manage 0 Reped05 17:532 You have selected 1 devices, including 0 unavailable wave to upgrade the rest 1 devices? Model 0 Clients 0 Software Ver Reped05 17:532 Manage 0 Reped05 17:532 You have selected 1 devices, including 0 unavailable wave to upgrade the rest 1 devices? NAR22500 0 Reped05 17:532 Reped05 17:532 Manage 0 Reped05 17:532 Reped05 17:532 Reped05 17:532 Reped05 17:533 AP List Group: All Groups Epand IP/MAC/hostname/SN/SoftWare Ver List Filter Reped05 17:5138 Action Hostname 0 IP 0 MAC 0 Status 0 Model 0 Clients 0 Software Ver Manage 0 Reped05 17:51318 III 0 Reped05 17:71321 Reped05 17:71321 Delete devices IP 0 MAC 0 Status 0 Model 0 Reped05 17:71321	() AP L	ist							C
Action Hostname IP * MAC * Satus * Model * Clients * Software Ver Manage () Rebort RAMAC * Satus * Model * * RAMAC * Satus * RAMAC * Satus * RAMAC * Satus * RAMAC * Satus * RAMAC * Revector 175.32.***********************************	AP List	Group: All Groups	Expand						□ List Filter Batch Action ~
Image 0 Rebort RA72200 You have selected 1 devices, including 0 unavailable devices (offline or upgraded to the latest version). Do you want to upgrade to the latest version). Do you want to upgrade the rest 1 devices? Image 2260(E) Image 2260(E) Image 2260(E) Image 2260(E) Image 2260(E) Image 2260(E) Image 2060(C) ReyeoOS 1.75.282 Image 20 Rebort Rubit Image 2010(C) Rubit Image 2010(C) Rubit Image 2011(C) Image 2011(C)<	•	Action	Hostname 💠	IP \$	MAC \$	Status 🕸	Model \$	Clients \$	Software Ver
Wanage V Report Norm Namage V Report V Namage V Report Namage V Report V	•	Manage 🖑 Reboot	RAP2260	You have selected devices (offline or t	1 devices, including 0 upgraded to the latest	unavailable t version). Do	X RAP2260(E)	0	ReyeeOS 1.75.242
AP List (?) AP List Group: All Groups Expand IP/MAC/hostname/SN/SoftWare Ver List Filter Batch Action Action Hostname © IP © MAC © Status © Model © Clients © Software Ver Manage © Reboot RAP2260 192.168.110.4 Online RAP2260(E) 0 ReyeeOS 1.75.1318 Manage © Reboot 192.168.110.126 IP/MAC/hostname/SN/SoftWare Ver 0 ReyeeOS 1.77.1321			Ruijie	want to upgrade th	ne rest 1 devices?	ncel	W1800GX-PRO	0	ReyeeOS 1.77.1321
AP List Group: All Groups Expand IP (MAC/hostname/SN/SoftWare Ver) List Filter Batch Action Action Hostname (SN/SoftWare Ver) List Filter Batch Action Manage () Reboot RAP2260 192.168.110.126 Online RAP2260(E) 0 ReyeeOS 1.75.1318 Manage () Reboot RAP2260 192.168.110.126 Online RAP2260(E) 0 ReyeeOS 1.75.1318 Action Hostname (SN/SoftWare Ver) 192.168.110.126 Offline EW1800GX-PRO 0 ReyeeOS 1.77.1321 P/MAC/hostname/SN/SoftWare Ver) 0 ReyeeOS 1.77.1321	() AP L	ist							0
Action Hostname + IP + MAC + Status + Model + Clients + Software Ver Manage () Reboot RAP2260 192.168.110.4 Image () Reboot RAP2260(E) 0 ReyeeOS 1.75.1318 Manage () Reboot Image () Reboot	AP List	Group: All Groups	Expand				IP/MAC/hostname/SN	/SoftWare Ver Q	List Filter Batch Action ~
Manage () Reboot RAP2260 192.168.110.4 Online RAP2260(E) 0 Reyeo(S 1.75.1318)		Action	Hostname 🗘	IP \$	MAC \$	Status 💠	Model \$	Clients \$	Software Ver
Manage © Reboot 192.168.110.126 Offline EW1800GX-PRO 0 ReyeeOS 1.77.1321 Clette device P/MAC/hostname/SN/SoftWare Ver List Filter Batch Action AP List P/MAC/hostname/SN/SoftWare Ver List Filter Batch Action Action Hostname IP MAC Status Model Clients Upgrade Device Manage @ Manage @ Repeot RAP2260 [192.168.110.4 Online RAP2260(E) 0 ReyeeOS 1.7	yee or	Manage (U) Reboot	RAP2260	192.168.110.4	609/02/200	Online	RAP2260(E)	0	ReyeeOS 1.75.1318
Collecte device Image: Collection of the stress of the		Manage 🖱 Reboot	100	192.168.110.126	8.6556954	Offline	EW1800GX-PRO	0	ReyeeOS 1.77.1321
AP List AP List Group: All Groups Expand IP MAC Status Model Clients Clients Software Upgrade Device Delete Device Change ReyeeOS 1.7; Manage Deboot 192.168.110.126 Online RAP2260(E) O ReyeeOS 1.7; Delete Device Change Group)elete d	levice							
AP List Group: All Groups Expand IP/MAC/hostname/SN/SoftWare Ver Q List Filter Batch Action Action Hostname \$\Phi NP\$ MAC \$\Phi Status \$\Phi Model \$\Phi Status \$\Phi Model \$\Phi Software \$\Phi Software \$\Phi Delete Device \$\Phi Software \$\Phi Delete Device \$\Phi Software	🕧 AP Li	st							0
Action Hostname + IP + MAC + Status + Model + Clients + Software Upgrade Device Delete Device Manage © Reboot RAP2260 192.168.110.4 Online RAP2260(E) Rever0S 1.71 Particular Software Particular Software Particular Software Particular Software Clients Clients Clients Clients Delete Device Change Group Change Gr	AP List	Group: All Groups	Expand				IP/MAC/hostname/SN	/SoftWare Ver Q	List Filter Batch Action V
Image Online RAP2260(E) Online RAP2260(E) Online ReveolS 1.7! Change Group Image Image <td< td=""><td>٠</td><td>Action</td><td>Hostname \$</td><td>IP ¢</td><td>MAC \$</td><td>Status \$</td><td>Model \$</td><td>Clients \$</td><td>Software Device</td></td<>	٠	Action	Hostname \$	IP ¢	MAC \$	Status \$	Model \$	Clients \$	Software Device
Manage () Rehoot 192168110126 Offline FW18006X-PRO 0 ReveeOS 1771321	Local O N	Manage () Reboot	RAP2260	192.168.110.4	1000	Online	RAP2260(E)	0	Change Group ReyeeOS 1.7!
	. © N	Manage じ Reboot		192.168.110.126	$(m^{-1},m^{-1})^{-1}$	Offline	EW1800GX-PRO	0	ReyeeOS 1.77.1321
() AP List	🧿 AP Li	st							0
AP List Group: All Groups Expand IP/MAC/hostname/SN/SoftWare Ver Q List Filter Batch Action	AP List	Group: All Groups	Expand				IP/MAC/hostname/SN	/SoftWare Ver Q	List Filter Batch Action ~
Action Hostname ♀ IP ♀ MAC ♀ Status ♀ Model ♀ Clients ↓ Software Ver		Action	Hostname ≑	IP \$	MAC \$	Status ≑	Model \$	Clients \$	Software Ver
Manage ♡ Reboot RAP2260 192.168.110.4 EC:89:70:23:A4:97 Online RAP2260(E) 0 ReyeeOS 1.75.1318	9 ² 01	Manage じ Reboot	RAP2260	192.168.110.4	EC:B9:70:23:A4:97	Online	RAP2260(E)	0	ReyeeOS 1.75.1318

b) Add, Change, Delete AP group Add group

									U.
AP List Group: Default	Collapse				IP/MAC/hostnam	e/SN/SoftWare Ve	er Q	List Filter	Batch Action $$
Search by Group	Action	Hostna	me 💠 IP 🗧	÷	MAC \$	Status ≑	Model \$	Clients	s
All Groups + Default 2 grup2 2 TestSubNetw 2	' Group Name grou	p1 Cancel	192.168	.110.4 1	CASPAGNAGE	Online	RAP2260(E)	0	Rey
customer gr 🙎 💼	1 > 10/p	age 🗸							Total 1
P List Group: All Groups	Collapse				IP/MAC/hostnan	ne/SN/SoftWare V	er Q	List Filter	Batch Action $$
earch by Group	Action	Hostnar	me \$ IP \$		MAC \$	Status 💠	Model \$	Client \$	'S
Default 🖉 🗊 🔗 grup2 🛃 👩	Ø Manage ⊕ Re	boot RAP2	260 192.168	110.4	ALC: NOT COMPANY	Online	RAP2260(E) 0	Re
TestSubNetw 2 B customer gr 2 B group1 2 C	1 > 10/pa	ige 🗸							Total 1
 AP List 									0
AP List Group: All Groups	Expand				IP/MAC/hostname	e/SN/SoftWare Ver	a l	ist Filter	Batch Action $ \smallsetminus $
						Clients		Calturan	Upgrade Device
☑ Action	Hostname ≑	IP ≑	MAC \$	Status 💠	Model 🗢	\$		Software	Delete Device

7 AP List		Change Group			×				?
AP List Group: All Groups	Expand	Select Group	Select	^]/hostname/Sl		List Filter Batch Action	
Action	Hostname		Default			Model 💠	Clients ‡	Software Ver	
🖉 🕲 Manage 🙂 Reboot	RAP2260		group1 grup2	el		AP2260(E)	0	ReyeeOS 1.75.1318	į
1 > 10/page ~			TestSubNetwork customer group					To	ital 1

1	AP List								?
AP Li	ist Group: group1	Expand				IP/MAC/hostname/SI	N/SoftWare Ver Q	List Filter	Batch Action \vee
	Action	Hostname 💠	IP \$	MAC \$	Status \$	Model \$	Clients \$	Software	Ver
Local	Ø Manage ♡ Reboot	RAP2260	192.168.110.4	Consideration of the second se	Online	RAP2260(E)	0	ReyeeOS 1.7	5.1318 G

Delete group

i AP List								0
AP List Group: All Groups	Collapse			IP/MAC/hostna	me/SN/SoftWar	e Ver Q	List Filter	Batch Action $$
Search by Group	Action	Hostname \$	IP ¢	MAC \$	Status 💠	Model \$	Clients \$	S
Default 2 10 10 10 10 10 10 10 10 10 10 10 10 10	@ Manage (RAP2260	192.168.110.4	EC:B9:70:23:A4:97	Online	RAP2260(E)	0	Rey
customer gr 🙋 👼 group1 🖉 🍏	1 > 10/page ~							Total 1

👔 AP List					0
AP List Group: All Groups Collapse			re Ver Q	st Filter	Batch Action \sim
Search by Group Action Hostname Action Hostname	MAC ¢	Status 💠	Model ≑	Clients \$	So
Default Image: Constraint of the second se	default :23:A4:97	7 Online	RAP2260(E)	0	Reye
group1	ок				Total 1
1 AP List					0
AP List Group: All Groups Collapse	IP/MAC/hostn	ame/SN/SoftWare	e Ver Q	Filter B	latch Action V
Search by Group Action Hostname Action IP Action IP	MAC \$	Status \$	Model \$	Clients \$	So
Default Image Image <thimage< th=""> Image Image <t< td=""><td>to di mospop</td><td>Online</td><td>RAP2260(E)</td><td>0</td><td>Reyee</td></t<></thimage<>	to di mospop	Online	RAP2260(E)	0	Reyee
group1 🖉 🕼 < 1 > 10/page 🛩					Total 1

b) The local AP group configuration will synchronize to Ruijie Cloud.

When AP group was changed locally, it will be automatically synchronize the sub-group in the cloud:

ALL 🗸	 test123 	✓ Search Networ	k Q					(GMT+	3:00)Asia/Shanghai	Manage Project	Take over Network	Unbind Device
AP	List New firm	ware available for 1	devices							Auto R	Refresh: 🔨 🕂	₫ #*8
Ad	d Web CL	I More + 0 S	Selected								SN, Alias, Des	cription Q
	Status	A SN	Config Status	MAC	Alias 🍦	MGMT IP	Egress IP	Clients	Network	Firmware	Version	Offline Time
	Online	N-Brahecastre	Synchronized	$((0,1^{-1})^{(1)},(0,1^{-1}))$	RAP2260	192.168.110.4	10.05 (10.07		test123 / group1	ReveeOS 1.75.1318		2022-03-19 07:00:
	Offline	hitternen	Synchronizing	(1-2)(n+1)(n+1)	AP680	192.168.110.189	91.601.69	-	test123	AP_RGOS 11.9(6)B1	Release(07222918)	2022-02-09 17:22

4.4.2 Basic Configuration

4.4.2.1 WAN Port Configuration

Click **Basics—WAN** to configure WAN port setting.

test123 > RAP2260 (0)	হি ● RAP2260(E)	Hostname: RAP2260 MAC:	SN:	IP: 192,168.110.4	(¹) Reboot
i AP List	Overview Basics ^	Wireless ~ Advanced ~	Diagnostics 🐃 System 🐃		
AP List Group: All	Conf				0
C Action	* Internet	Static IP			
Manage ()	* Ib	192.168.110.4			
	* Subnet Mask	255.255.255.0			
< 1 > 10,	* Gateway	192.168.110.1			
	* DNS Server	192.168.110.1			
	A	sdvanced Settings			

PPPoE: Access the internet by using the broadband account provided by ISP.

DHCP: Access the internet by using the dynamic IP address provided by ISP.

Static IP Address: Access the internet by using a static IP address provided by ISP.

IP Address/Subnet Mask/Gateway/DNS Server: Those settings are required for static IP address.

VLAN ID	Range: 2-232 and 234-4090.
* MTU	1500
* MAC	ec:b9:70:23:a4:97
	Save

VLAN ID, MTU, MAC: you can customize those configurations as needed

4.4.2.2 LAN Port Configuration

a) Port VLAN Settings

	Hostname: RAP2260 MAC: MAC:	SN:	ninipeteri	IP: 192.168.110.4		(U) Reboot
Overview Basics ~	Wireless ~ Advanced ~	Diagnostics \sim	System ~			
LAN Settings						
i LAN Settings				~		
Port VLAN						
LAN Settings					+ Add	Delete Selected
Up to 4 entries can b	e added.					
	VLAN ID			Remark		Action
			No Data			
LAN Settings Port VI	LAN					
1 AN Settings						
Port VLAN						
LAN Settings					+ Add	Delete Selected
Up to 4 entries can be	added.					
	VLAN ID			Remark		Action
	10			client		Edit Delete
Overview Basics ~	Wireless \scriptstyle	Diagnostics \vee	System $^{\vee}$			
LAN Settings Port VI	LAN					
<i>i</i> Port VLAN Please choose LAN	Settings to create a VLAN first ar	nd configure port s	ettings based on the VLA	Ν.		0
Port VLAN						
Connected D	isconnected					
		Port 1				
VLAN 1(WAN)		UNTAG ~				
VLAN 10		TAG 🗸				
		Save				

b) DHCP Configuration (only be visible in router mode)

Change the AP's mode to Router mode

 Description: 1. The device IP address may change upon mode change. 2. Change the endpoint IP address and ping the device. 	SN: G1QH6WX000534 :A4:97 ced ~ Diagnostics ~ System ~	IP: 192.168.110.4	(U) Reboot
 Enter the new IP address into the address bar of the browser to access EWEB. The system menu varies with different 	0	Duration: 1 hour 19 minutes 50 seconds Systime: 2022-03-27 02:16:09	
work modes. 5. The device will be restored and rebooted upon mode change. Work Mode AP ⑦ Self-Organizing Router Network AP	Hostn M Software	ame: RAP2260 & MAC: Control (Master AC: 192.168.110.1) Ver: ReyeeOS 1.75.1318	

Click **basics—LAN** to config DHCP Pool

	00(F)	Hostname: 📲	e Solenski offi	SN: CARTA	12091079	IP: 192.168.	110.113		(1) Reboot
Overview	Basics ^	Security 🐃 🖌	Advanced 🌱 🛛 D	liagnostics \checkmark	System $^{\vee}$				
LAN Setting	WAN LAN		c IP Addresses						
i LAN	Settings								?
LAN Set	ttings							+ Add	Delete Selected
Up to 8	entries can b	e added.							
	IP	Subnet Mask	VLAN ID	Remark	DHCP Server	Start	IP Count	Lease Time(Min)	Action
192	2.168.120.1	255.255.255. 0	Default VLAN		Enabled	192.168.120. 1	254	30	Edit Delete

The default VLAN 1 can't be removed and its default IP address is 192.168.120.0/24.

হ ● RAP2200(F)	Hostname. 🐂	* IP	192.168.150.1				(U) Reboot
Overview Basics ~	Security 🌱 🛛 A	* Subnet Mask	255.255.255.0				
LAN Settings DHCP	Clients Stat	* VLAN ID	10				
() LAN Settings		Remark	test				0
LAN Settings		* MAC	C4:70:AB:3B:14:96			+ Add	Delete Selected
Up to 8 entries can be	e added.	DHCP Server					
IP IP	Subnet Mask	* Start	192.168.150.1		nt	Lease Time(Min)	Action
192.168.120.1	255.255.255.	* IP Count	254			30	Edit Delete
	U	* Lease Time(Min)	30				
View configuratio	Hostname: 🖅 MAC: 💶 Security Y 🗸	SN T	System ~	Cancel	.110.113		(U) Reboot
LAN Settings DHCF	Clients Stat	ic IP Addresses					
i LAN Settings							?
LAN Settings						+ Add	Delete Selected
Up to <mark>8</mark> entries can b	e added.						
ID						Lease	
IF	Subnet Mask	VLAN ID Remark	DHCF Server	Start	IP Count	Time(Min)	Action
192.168.120.1	Subnet Mask 255.255.255. 0	Default VLAN	Enabled	Start 192.168.120. 1	IP Count 254	Time(Min) 30	Action Edit Delete

View DHCP Clients

Configuration	
Configuration	

Hostname: Hostname: MAC: MAC: MAC: MAC: MAC: MAC: MAC: MAC	SN: CONVENIENT	∎ IP: 192.1	68.110.113	() Reboot
LAN Settings DHCP Clients Static IF	P Addresses			
<i>i</i> View DHCP clients.				0
DHCP Clients		Search by Hostname/IP/I	MAC Q C Refresh	+ Batch Convert
Up to 300 IP-MAC bindings can be added.				
No. Hostname	IP	MAC	Remaining Lease Time(min)	Status
□ 1 *	192.168.120.163	protocol (Control of Control of C	30	Convert to Static IP
2 DESKTOP-LC100MH	192.168.120.161	0.004/0.000	19	Convert to Static IP
c) Binding Static IP Click Convert to static IP				1011 N
Hostname: RAP2200 • RAP2200(F) MAC: • Title * *** Overview Basics * Security * Advanced	SN:	IP: 192.168.110.113		(1) Reboot
LAN Settings DHCP Clients Static IP Add	resses			0
Static IP Address List		Search by IP/MA	AC Q + Add	Delete Selected

Up	to 300 entries can be added.				
	No.	IP	MAC	Action	
	1 1	92.168.120.161	5.440.454.00	Edit Delete	
				Ŧ.,	

Click Edit to modify IP address and MAC address

4.4.3 Advanced Configuration

4.4.3.1 ARP List

Click Security—ARP List to view ARP list which is the mapping relationship between IP address and MAC address.

The AP can learn all connected devices' ARP. You can bind the MAC address and IP address by clicking Bind.

Configuration

Reyee Cookbook

RAP2200(F) Overview Basics	Hostname: RAP2200 MAC: Constant and Constant	SN:	IP: 192.168.110.113	(U) Reb	oot
<i>i</i> The device lear	ARP List	nected to its interfaces. You can bind c	or filter the MAC address.	(?
ARP List		Search by IP/M	AC Q + Add		d
Up to 256 IP-MAG	C bindings can be added.				
🗌 No.	MAC	IP	Туре	Action	
□ 1		192.168.110.254	Static	Edit Delete	
2	10,000,000	192.168.120.161	Dynamic	@ Bind	

Bind Selected: Batch to bind the selected ARPs to convert them from dynamic to static.

Delete Selected: delete the selected ARP entry

Click Add can add static ARP.

4.4.3.2 Local DNS

You can click **Advanced->Local DNS** to configure local DNS server, but the local DNS server normally no need to be configured. Since it will get the DNS address from the uplink DHCP Sever.

	Hostname: RAP2200 MAC:	SN:	IP: 192.168.110.113	(U) Reboot
Overview Basics ~	Security × Advanced ×	Diagnostics $ imes$ System $ imes$		
<i>i</i> The local DNS ser	ver is not required to be configured	d. By default, the device will get the	DNS server address from the uplink device.	
Local DNS server	8.8.8.8			
	Save			

4.4.3.3 POE Configuration (Only support with RAP2260(E))

The PoE Settings module allows you to configure the PoE mode.

Click advanced—PoE Settings



হ • RAP2260(E)	Hostname: Ruijie MAC:	SN:	IP: 192.168.110.111	(U) Reboot
verview Basics ~	Security ~ _ Advanced ~	Diagnostics ~ System ~		
i PoE Settings				
Power Mode	Auto]		
Current Mode	Auto			
Current Power	IEEE 802.3af IEEE 802.3at			
	Save			

Power Mode: IEEE 802.3at, IEEE 802.3af or Auto

Current Mode: Display current PoE mode

Current Power: Display current Power consumption.

Note:

Only Wi-Fi6 products support POE In function (RG-RAP2260(G), RG-RAP2260(E), RG-RAP6260(G))

4.4.3.4 Port Flow Control Configuration

Click advanced—Port settings

Flow control can relieve the data congestion caused by ports at different speeds and improve the network speed.

হ • RAP2260(E)	Hostname: Ruijie MAC: MAC:	SN:	IP: 192.168.110.111	(¹) Reboot
Overview Basics ~	Security ~ Advanced ^	Diagnostics ~ System ~		
Port Settings Flow control can re	Local DNS elieve the data c PoE Settings	fferent speeds and im	prove the network speed.	
Flow Control	Port Settings			
	Save			

4.4.4 Operation and Maintenance

4.4.4.1 Network Check

Click Start->OK, it will start the network check, then show the result in one minute.

ি ● RAP1200(F)	Hostname: ReyeeAP2 MAC: C4:70:AB:A2:C3:6A	SN: G1QH26P01384A	IP: 192.168.110.205	(U) Reboot
Overview Basics ~	Wireless $\stackrel{\scriptstyle \scriptstyle \sim}{}$ Advanced $\stackrel{\scriptstyle \scriptstyle \scriptstyle \scriptstyle \sim}{}$	Diagnostics ^ System ×		
i Network Check	[Network Check		0
Start		Network Tools Fault Collection		

Reyee Cookbook	Configuration
Image: Mostname: SN: IP: 192.168.110.111 • RAP2260(E) MAC IP: 192.168.110.111 Overview Basics × Security × Advanced × Diagnostics × System ×	(1) Reboot
🚺 Network Check	0
Recheck	
10	0%
WAN/LAN Cable	
Auto-Negotiated Speed	()
WAN Port	
DHCP-Assigned IP Address	
LAN & WAN Address Conflict	
Loop	
DHCP Server Conflict	
IP Address Conflict	
Route	i

4.4.4.2 Alarms

You can view and manage the Alarms here.

ি • RAP2260(E)	Hostname: Ruijie MAC:	SN:	IP: 192.168.110.111	(1) Reboot
Overview Basics \sim	Security \sim Advanced \sim	Diagnostics ^ System ~		
<i>i</i> View and manage	alarms.	Network Check		
Alarm List	L	Network Tools Fault Collection		View Unfollowed Alarm
Expand Alarms		Suggestion		Action
			No Data	
< 1 > 10/	page \vee			Total 0

Click **Unfollow** to un-follow an alarm.

i Viev	w and manage alar	rms.				
Alarm	List					View Unfollowed Alarm
Expand	Alarms		Suggesti	on		Action
~	There is more the LAN netwo	than one DHCP server in ork.	Please di	sable the extra DHCP serve	er in the LAN network.	Delete Unfollow
	Hostname	SN	Туре	Time	Details	
	Ruijie	G1QH2LV00090C	RAP260(G)	2021-04-29 17:06:47	A DHCP server conflict occur MAC:00:74:9c:b4:b6:8b,IP:1.1 MAC:00:74:9c:b4:b6:8c,IP:1.1.	s in LAN network: .1.1,VLAN ID:30; .2.1,VLAN ID:20

Are you sure you want to unfollow the alarmand delete it from the alarm list? 1. After being unfollowed, an alarm will not appear again.. 2. You can click View Unfollowed Alarm to re-follow an unfollowed alarm.



View Unfollowed Alarm	×
A MAC address conflict or loop error occurs. Re-follow	
	Cancel

Note:

After clicking **delete**, the alarm will reappear when the warning occurs. And after clicking Unfollow, the alarm will never appear

4.4.4.3 Network Tools

The Network Tools including: Ping, Traceroute, and DNS Lookup.

a) Ping tool

Test whether the IP/Domain is reachable.



b) Traceroute

Traceroute tool can count the number of hops, showing communication links from one point to another point and the time it takes for each hops.

Overview Basics \checkmark	Security × Advanced × Diagnostics × System ×
i Network Tools	
Tool	Ping 💿 Traceroute 💿 DNS Lookup
* IP Address/Domain	www.ruijie.com.cn
* Max TTL	20
	🗱 In Progress Stop
traceroute to v 46 byte packet 1 192.168.110 ms 2 172.26.4.1 (www.ruijie.com.cn (139.198.13.73), 20 hops max, is 0.1 (192.168.110.1) 0.553 ms 0.454 ms 0.438 172.26.4.1) 2.485 ms 2.042 ms 1.996 ms

c) DNS Lookup

Resolve a domain to an IP address.

i Network Tools		
Tool	O Ping O Traceroute	O DNS Lookup
* IP Address/Domain	cloud-as.ruijienetworks.c	om
	Start	Stop
Server: Address: 127	127.0.0.1 .0.0.1#53	
Name: clou Address 1: 34	ud-as.ruijienetworks.com .87.32.36	

4.4.4.4 Fault Collection

The Fault Collection module allows you to collect faults by one click and download the fault information to the local device. **4.4.4.5 System**

1 Setting system time

Click **Network—Time** to set system time

응 Overview			
	Configure and vie	w system time (The device	has no RTC mo
	•		
	Current Time	2022-03-27 20:09:01	Edit
Switches			
	* Time Zone	(GMT+8:00)Asia/Shang	hai 🗸
Setwork ^			
	* NTP Server	0.cn.pool.ntp.org	Add
Time			
Password		1.cn.pool.ntp.org	Delete
		1 1 3	
Scheduled Reboot		cn.pool.ntp.org	Delete
Reboot & Reset			Delete
		pool ntp org	Delete
		Provincipion 3	Delete
		asia pool ptp org	Dolata
		usidipooliiritpiolig	Delete
		aurona pool ata ara	Delate
		europe.poor.ntp.org	Delete
		ntn1 aluun sam	D. L.L.
		ntp1.allyun.com	Delete
		Couro	

Current Time: If not set or synchronized with a time server, it will be start with the manufacture time.

Time Zone: Choose the time zone based on your address.

NTP Server: You can click Add to add an NTP server.

2 Setting login Password

Click Network-Password to set login password.

Set a new password with at least 6 characters.

Overview			
	Change the login passw	ord. Please log in again with the new password la	ler.
🖻 Switches	* Old Password	0	
Network	* New Password	📀	
Time		High	
Password	* Confirm Password		
Scheduled Reboot		Save	
Reboot & Reset			

3 Setting Login Page Timeout

Click System—Login to set the login page timeout time. This can be set from 600 to 7200 seconds.

(╤) ● RAP2260(E)	Hostname: Ruijie MAC: EC:B9:70:23:A4:97	SN: G1QH6WX000534	IP: 192.168.110.111	(U) Reboot
Overview Basics ~	Security \sim Advanced \sim	Diagnostics Y System ^		
i Session Timeout	t	Login Management		0
* Session Timeout	3600 Save	Upgrade Reboot		

4 Backup/Import Configuration

Click System-management

You can import a configuration file to AP or export the current configuration of AP here.

If the target version is much later than the current version, some configuration may be missing.

It is recommended to restore the settings first then importing the configuration. The device will reboot automatically if you restore it.

Overview Basics × Security × Advanced × Diagnostics × System ×	
Backup & Import Reset	
If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Restore before importing the profile. The device will be rebooted automatically later.	0
Backup Profile	
Backup Profile Backup	
Import Profile	
File Path Please select a file. Browse	

5 Reset

You can restore the device to factory settings on this page.

Click Reset to restore the device.

Reyee Cookbook Configuration Overview Backs > Security > Advanced > Diagnostics > System > Backup & Import Reset i Resetting the device will clear the current settings. If you want to keep the setup, please Backup Profile first. (?) Reset (?)

6 Upgrade

There are two modes to choose: Online Upgrade and Local Upgrade.

Online Upgrade

Click **Upgrade->Online Upgrade->Upgrade Now**, will download and upgrade to latest version. The upgrade operation won't affect the current configuration, but the AP will reboot after upgrading successfully. Please do not refresh the page or close the browser when do upgrading. It will be redirected to the login page automatically after upgrading.

Overview Basics ~	Security \checkmark Advanced \checkmark Diagnostics \checkmark	System ^		
Online Upgrade Loc	al Upgrade	Login Management		
🥡 Online upgrade wil	keep the current setup. Please do not refresh the	Upgrade	ill be redirected to the login page automatically after upgrade.	
Current Version ReyeeO	S 1.75.1318 (It is the latest version.)	Reboot		
<i>i</i> Online up be redired	grade will keep the current setup. Ple ted to the login page automatically	ease do not refresh the after upgrade.	e page or close the browser. You will	
Current Version)		
New Version				
Description	COMPANY OF THE OWNER.			
Tip	1. If your device cannot access th	e Internet, please cli	ck Download File.	
	2. Choose Local Upgrade to uplo	ad the file for local u	pgrade.	
	Upgrade Now			

If there isn't new version, the device will pop-up a massage that the current version is the latest.

Overview Basics × Security × Advanced × Diagnostics × System ×
Online Upgrade Local Upgrade
i Online upgrade will keep the current setup. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after upgrade.
Current Version ReyeeOS 1.75.1318 (It is the latest version.)

Local Upgrade

Click **Browse** to select an upgrade package, click **Upload**. After uploading successfully, it will display the upgrade package information and pop-up a prompt asking for upgrading. Click OK to start the upgrade.

Reyee Cookbook Configuration Overview Basics × Security × Advanced × Diagnostics × System × Online Upgrade Local Upgrade Image: Please do not refresh the page or close the browser. Image: Optime Close the browser. Image: Model RAP2260(E) Current Version ReyeeOS 1.75.1318 Keep Setup If the target version is much later than the current version, it is recommended not to keep the setup.) File Path Please select a file. Browse Upload Version, it is recommended not to keep the setup.)

7 Reboot the device/Schedule Reboot

click System-.>Reboot

a) Reboot

configuration.

The Reboot module allows you to reboot the device immediately.

Overview	Basics \checkmark	Security $^{\vee}$	Advanced \leq	Diagnostics ~	System ~
Reboot	Scheduled F	eboot			
<i>i</i> Please	e keep the de	vice powered o	n during reboot.		
Rebo	pot				

Click **Reboot**, and click **OK** in the confirmation box. The device is rebooted and you need to log into the Eweb management system again after the reboot. Do not refresh the page or close the browser during the reboot.

After the device is successfully rebooting, you will be redirected to the login page of the eWEB management system.

b) Schedule Reboot



8 AP LED

You can turn on/off the AP's LED indicator here.

	Control the LED status of the downlink AP.	
APs	Enable 🚺 🗲	
Wi-Fi	Save	
Clients		
Blacklist/Whitelist		
Radio Frequency		
LAN Ports		
LED		

4.5 Reyee Mesh Wi-Fi Configuration

4.5.1 Network Setting

4.5.1.1 Quick start

Wired connect

You need to connect the router to a power supply and connect the LAN port of a modem to the WAN port of the router. The port nearest to the Reset button on the router is the WAN port, and other network ports are LAN ports.



1. Configuring the Internet Connection Type

Configure the Internet connection type according to requirements of the local Internet Service Provider (ISP). Otherwise, the Internet access may fail due to the improper configuration. You are advised to contact your local ISP to confirm the Internet connection type:

- Figure out whether the Internet connection type is PPPoE, DHCP mode, or static IP address mode.
- In the PPPoE mode, username, password, and the service name are needed.
- In the static IP address mode, IP address, subnet mask, gateway, and DNS server are needed to configure.



2. Configuring a Wi-Fi Network

(1) Setting the SSID and Wi-Fi password: The device has no Wi-Fi password by default, indicating that the Wi-Fi network is an open network. You are advised to configure a complex password to enhance the network security. The password must be a string of 8 to 31 characters, which can contain uppercase and lowercase letters, digits, and English characters but cannot contain special characters such as single quotation marks ('), double quotation marks ('), or spaces.

(2) Setting the management password: The password is used for logging in to the management page. The management password must be a string of 8 to 31 characters that contain at least three types among uppercase letters, lowercase letters, digits, and English characters but cannot contain **admin**, Chinese characters, spaces, or question marks (?). You can set the password same as the Wi-Fi one.

(3) Setting the country or region: The Wi-Fi channel may vary from country to country. To ensure that a client searches for a Wi-Fi network successfully, you are advised to select the actual country or region.

(4) Setting time: Set the system time. The network time server is enabled by default to provide the time service. You are advised to select the actual time zone.

(5) Overriding the configuration: Click Override. The Wi-Fi network will be restarted. You need to enter the new Wi-Fi password to connect to the new Wi-Fi network.

Wi-Fi Settings	
Dual-Band Single SSID	
* SSID (2.4G)	Large Coverage & Slow Rate
@Ruijie-s49FD	
* SSID (5G)	Small Coverage & Fast Rate
@Ruijie-s49FD_5G	
* Wi-Fi Password	
	3 _{per} t
Management Password	Z Same as Wi-Fi Password
	High
Country/Region/Time Zo	one 🗸
* / /D	
Previous	Override
v	/izard
* SSID (5G)	Small Coverage & Fast Rate
@Ruijie-s49FD_5G	
* Wi-Fi Password	

Vanagement Password	Same as Wi-Fi Password
Management Password	Same as Wi-Fi Password
Management Password	Same as Wi-Fi Password
Management Password Country/Region/Time Zo Country/Region	Same as Wi-Fi Password
Management Password Country/Region/Time Zo Country/Region China (CN)	Same as Wi-Fi Password High
Management Password Country/Region/Time Zo Country/Region China (CN) Time Zone	Same as Wi-Fi Password
Management Password Country/Region/Time Zo Country/Region China (CN) Time Zone (GMT+8:00)PRC	Same as Wi-Fi Password
Aanagement Password Country/Region/Time Zo Country/Region China (CN) Time Zone (GMT+8:00)PRC	Same as Wi-Fi Password

3. Verification and Testing

You can access the Internet after connecting to the Wi-Fi network. Log in the management page (the default address is 192.168.110.1) and, Internet connection status, real-time upstream and downstream traffic data will be displayed on the page.



Wireless connect

1. Wireless repeater mode

(1) Click Wireless **Repeater**, select the **Country/Region** and the **SSID** of the primary router, and enter the Wi-Fi password to connect to the primary router.

No cable is detected. Please plug in cables according to the diagram.
Nodem LAN Port
Recheck
If you want to extend your Wi-Fi range
Mesh Networking Wireless Repeater
WISP

÷

ountry/Region	
Country/Region	
China (CN)	
Time Zone	
(GMT+8:00)PRC	

Next

Configuration

Wireless Repeating	
Q ssid	G
5G @Ruijie-s49FD_5G	A 🛜
5G	A 🛜
5G	A 🛜
5G the state	((;-
5G	A 🛜
5G2	A 🛜
5G	A 🛜
56	(((-
56	A 🛜
5G	((:-
5G	A 🛜
	-
Wireless Repeating	
Confirm SSID and Wi-Fi Key:	
* Primary Router SSID	
* Primary Router SSID @Ruijie-s49FD_5G	
* Primary Router SSID @Ruijie-s49FD_5G * Password	
* Primary Router SSID @Ruijie-s49FD_5G * Password	> _N ¢
 Primary Router SSID @Ruijie-s49FD_5G Password 	775
* Primary Router SSID @Ruijie-s49FD_5G * Password	Zynt
 Primary Router SSID @Ruijie-s49FD_5G Password 	Syst.
 Primary Router SSID @Ruijie-s49FD_5G Password ******** 	3mgd
 Primary Router SSID @Ruijie-s49FD_5G Password 	Syst.
 Primary Router SSID @Ruijie-s49FD_5G Password ************************************	h _r e
 Primary Router SSID @Ruijie-s49FD_5G Password 	244
 Primary Router SSID @Ruijie-s49FD_5G Password 	***

(2) Set the SSID and password and save the settings. Then, the Wi-Fi network will be restarted.

	Wireless Repeating
Νε	ew SSID and Wi-Fi Key:
2	SSID (2.4G)
	@Ruijie-WirelessRepeater
*	* SSID (5G)
	@Ruijie-WirelessRepeater5G
	* Wi-Fi Password
	••••••
Ma	anagement Password Same as Wi-Fi Passwor
	* Management Password
	(Please remember the password.)
	••••••••••••••••••••••••••••••••••••••
	Medum
	Next

Wizard



In the wireless repeater mode, only Wi-Fi signals are extended and the DHCP function is disabled. The IP addresses of all clients connected to the primary and secondary routers are assigned by the primary router. If the device connects to the primary router in wireless repeater mode, the WAN port of the device keeps unchanged. If WAN cable is plugged in, the device automatically switches to the wired repeater mode.



2. Wireless ISP mode

(1) Click **WISP**. On the displayed network setup page, click **Next** to automatically obtain an IP address. If the primary router cannot deliver an IP address, select Static IP. Select the SSID of the primary router and enter the Wi-Fi password

to connect to the primary router.

~	WISP	
Internet:		
PPPoE	DHCP	Static IP
* IP		
192.168.111.10		
* Subnet Mask		
255.255.255.0		
* Gateway		
192.168.111.1		
* DNS Server		
192.168.111.1		

÷

WISP	
Q SSID	S
5G @Ruijie-s49FD_5G	£ 🛜
	(li.
	((r-
5	(((-
50	4 🛜
5G	6 🛜
5G	(((-
5	(((•
5G	(((-
	((r-
56	A 🛜
56	6 🛜
56	(((-
	0.0

←	Wireless Repeating	
	Confirm SSID and Wi-Fi Key:	
	Primary Router SSID @Ruijie-s49FD_5G	
	* Password	
		ж.
	Next	

(2) Set the SSID and password and save the settings. Then, the Wi-Fi network will be restarted.

Wireless Repeating
Local Router Wi-Fi
New Wi-Fi Same as Primary Router Wi-Fi
* SSID (2.4G)
@Ruijie-s49FD_5G_plus
* SSID (5G)
@Ruijie-s49FD_5G_plus_5G
* Wil-Fi Password
·····
Management Password Same as Wi-Fi Password
* Management Password
(Please remember the password.)
High
Thigh
Next
Wireless Repeating
Local Router Wi-Fi
New Wi-Fi Same as Primary Router Wi-Fi
* SSID (2.4G)
@Ruijie-s49FD_5G_plus
* SSID (5G)
Pairing
Prease Wait for 1 to 2 minutes.
Management Paceword Samo as Will El Paceword
Same as wi-ri Password
* Management Password (Please remember the password)
we have remember the passworth)
High
 Next
Wireless Repeating Result
Finish
Please connect to the Wi-Fi network again. If you fail to discover the SSID, please try again.
SSID (2.4G):
@Ruijie-s49FD_5G_plus SSID (5G):
@Ruijie-s49FD_5G_plus_5G
WI-FI Password:
Admin URL: ruiyi.cn
Admin Password:RUIJIE123.

In the wireless ISP mode, the device still supports routing and DHCP functions, the IP addresses of clients connected to the primary router are assigned by the primary router and the IP addresses of clients connected to the secondary router are assigned by the secondary router. When the device connects to the Internet through wireless connection, the wired WAN port becomes the LAN port for use by clients.

Mesh

(1) Click **Mesh Networking**, then click the Next button after enter the mesh page. According to the mesh steps in this page, press the mesh networking button on the primary and second router.

	Wizard	
	ONo cable is detected. Please plug in cables according to the diagram.	
	Power Modem LAN Port	
	Recheck	
	If you want to extend your Wi-Fi range	
	Mesh Networking Wireless Repeater	
	WISP	
<	Mesh Networking	
	You can set up a seamless roaming network without cables by mesh networking.	
	*	
	Place the new router 2 meters away from the primary router and power on the new router.	
	The system LED of the new router starts to blink. Wait for 2 to 3 minutes until the LED turns solid on.	
	*	
	Press the Mesh Networking button on the primary router. The mesh networking LED on both routers blinks green slowly for about 2 minutes. When both LEDs stop blinking and turn solid green, mesh networking succeeds. Dlagram: Mesh Networking Button	

(2) After the page prompts that the mesh networking is succeeded, you can see one new repeater is connecting to primary router.





4.5.1.2 Basic

1.1 WAN

The router supports three Internet connection types: PPPoE, DHCP, and static IP.

Basics	~	i Configure WAI	N settings.	
WAN		* Internet	DHCP	
LAN			PPPoE	or DHCP clients.
IPTV		IP	DHCP	
IPv6 Address		Subpat Mack	Static IP	
		Subhet Mask	233.233.232.0	
Repeater/WISP		Gateway	172.26.4.1	
⊚WLAN	~			
		DNS Server	192.168.58.110 192.168.58.94	
⊘ Security	~		Advanced Settings	
	~		, arancea securitys	
10- 2 (A. 2009, 84, 0)		* MTU	1500	
🖶 Advanced	~			
	~	* MAC	c0:b8:e6:.	
@ Diagnostics		802 10 Tag		
System	~	002.12 109		
«Collapse			Save	

MTU: Sometimes, the ISP restrict the speed of large data packets or prevent large data packets from passing through. As a result, the network speed is low or even the network is disconnected. In this case, you are required to set the maximum transmission unit (MTU) to a smaller value.

The default MTU value is 1500, which is the maximum MTU size. You are advised to gradually adjust the value to 1492, 1400, or even smaller if necessary.

MAC: The ISP may restrict the access of devices with unknown Mac addresses to the Internet for the sake of security. In this case, you can change the MAC address of the WAN port to another address. You are advised to use the MAC address of an old router that is allowed to access the Internet (the MAC address can be found on the bottom label of the device). Enter the Mac address in the format of 00:11:22:33:44:55.

A Note:

Changing the MAC address of the LAN or WAN port will disconnect the network. You need to reconnect to the router or restart the router, please handle with care.

1.2 LAN

a) Overview

The DHCP server function enables a router to automatically assign IP addresses to clients so that clients connected to the LAN ports or Wi-Fi network of the router could obtain IP addresses for Internet access. When multiple routers are connected through LAN ports, the DHCP server conflict will occur. In this case, you need to disable the DHCP server function and keep the DHCP service only on one router available. Otherwise, some devices may be disconnected to the network from time to time.

b) Configuration Steps

Choose More > Basics > LAN.

DHCP Server: The DHCP server function is enabled by default. You are advised to enable it when only a single router is used. When multiple routers are connected to the primary router through LAN ports, you need to disable this function.

If the DHCP server function is disabled on all routers on the network, clients cannot automatically obtain IP addresses. You need to enable the DHCP server on a router or manually configure a static IP address for every clients for Internet access.

Ru	jīe	Reyee	1 Home	Endpoints	Internet	(Wi-Fi	-B- -B- More	English \sim	<u>@</u> Ø
Basics		LAN Settings DHC	P Clients Static IP	Addresses DNS Pr	оху				
WAN		() LAN Settings							0
LAN		* IP	192.168.110.1						
IPTV IPv6 Address		* Subnet Mask	255.255.255.0						
Repeater/WISP		Remark	Remark						
∲ WLAN	~	* MAC	c0:b8:e6:21:49:fe						
⊘ Security	×	DHCP Server							
₽VPN	3	• Start	192.168.110.1						
Advanced ■ Advanced ■	~	* IP Count	254						
@ Diagnostics	~	ir count							
System	~	* Lease Time(Min)	30						
«Collapse			Save						

Configure the IP address and subnet mask, and click Save. After the IP address of a LAN port is changed, you need to log in to eWeb by using the new IP address of the LAN port.

Start: Enter the initial IP address of the DHCP address pool. Client obtains an IP address from the address pool. If all the addresses in the address pool are used up, the client will fail to obtain the IP address.

IP Count: Enter the number of IP addresses in the address pool. The default value is 254.

Lease Time (Min): Enter the address lease time period. When a client keeps connecting, the lease is automatically renewed. If the lease time is not renewed due to the client disconnection or network instability, the IP address will be reclaimed after the lease period expires. After the client connection is restored, the client could request an IP address once again. The default lease period is 30 minutes.

DHCP Clients: this page displays all clients got IP address from this device. Click Convert to Static IP to bind specify static IP address, you can see all users with static IP address in the Static

LAN Se	ttings	DHCP Clients Static IP Add	dresses DNS Proxy			
0	View DH	CP clients.				0
DHO	P Clier	nts		Search by F	Hostname/IP/MAC Q C Refre	sh + Batch Convert
Up t	o <mark>300</mark> IF	P-MAC bindings can be added.				
	No.	Hostname	IP	MAC	Remaining Lease Time(min)	Status
	1	USER-20191214JF	192.168.110.47	(- 10 · 10/	24	Convert to Static IP
	2	*	192.168.110.147		29	Converted to Static IP
	1	10/page V				Total 2

Static IP Address List: Click **Add.** In the displayed static IP address dialog box, enter the Mac address and the IP address of the target client, and click **OK.** After the static IP address is bound, the client will obtain the IP address when they connect to the router.

LAN Settings	DHCP Clients	Static IP Addresses	DNS Proxy			
🧿 Static IP	Address List					0
Static IP A	ddress List			Search by IP/MAC	Q + Add	Delete Selected
Up to 300 e	ntries can be added.					
No.		IP	MA	IC .	Action	
1		192.168.111.106	eatz		Edit Dele	ete
K 1 2	10/page 🗸					Total 1

Add			×
	* IP	192.168.111.106	
	* MAC	ea:aS	
		Cancel	OK

DNS Proxy: It is disabled by default and the DNS delivered by a carrier is used. If the DNS is incorrectly configured, the network is accessible and the mobile app can access the Internet properly, but the Web page cannot be opened. You are advised to disable the function.

LAN Settings	DHCP Clients	Static IP Addresses	DNS Proxy	
i DNS prox	y is not required. Th	e device will obtain the DN	server address from the uplink device by default.	0
E	nable 🚺			
* DNS S	erver Please er	nter a DNS server address		
	Se	ave		

DNS Server: Clients automatically use the DNS service provided by the primary router by default. The default configuration is recommended. After the DNS proxy function is enabled, you can enter the IP address of the DNS server. The available DNS service varies from region to region. You can consult the local ISP.

1.3 IPTV

a) IPTV/VLAN

Choose **More > Basics > IPTV.** IPTV is an Internet television service provided by ISP. At the beginning, you need to check whether the IPTV service has been provisioned and the local IPTV service is of the VLAN or Internet Group Management Protocol (IGMP) type. If the local IPTV is of the VLAN type, confirm the VLAN ID. If you are not sure of the IPTV type, contact your local ISP.

Select a local ISP mode, click the drop-down list of the target port, select IPTV from the drop-down list, and enter the VLAN ID provided by the ISP. For example, connect an IPTV set top box (STB) to LAN3 and set the VLAN ID to The configuration is shown in the figure below.
Ru	ĵје	#Reyee	1 Home	Endpoints	Internet	() Wi-Fi	-B- More	English ~	٩	8
Basics		IPTV/VLAN IPTV/I	GMP							
WAN LAN		IPTV/VLAN set	tings.							
IPTV		IPTV/VLAN								
IPv6 Address		* Mode	Custom							
Repeater/WISP		* LAN1	Internet							
ি₩LAN	Ŷ	* LAN2	IPTV							
⊘ Security	~		f proven							
₩ VPN	~	* LAN3	Internet							
合 Advanced	~	* IPTV VLAN ID	20							
@ Diagnostics	~	Internet VLAN	802.1Q Tag							
-e- -e- System	~		Save							-
«Collapse					智齿客服控制台 - Google	Chrome				

Internet **VLAN**: If a VLAN ID needs to be set for the Internet access service, enable the Internet VLAN function and enter a VLAN ID. The VLAN tag function is disabled by default. You are advised to disable the function unless in special cases.

After the configuration, confirm that the IPTV STB is connected to the specified port properly. Take the following figure as an example, connect the IPTV STB to LAN3.

b) IPTV/IGMP

The configuration applies to Vietnam FPT ISP. After it is enabled, connect the IPTV STB to any LAN port of the router.



1.4 IPv6 Address

The WAN Settings module allows you to configure WANv6 settings, including DHCP, static

Basics	~	IPv6 Address	
		 When IPv6 is er 	nabled, the MTU of IPv4 WAN port must be greater than 1280.
WAN		2. If you want to s	set more than one IPv6 LAN, please choose Port VLAN to set only one VLAN to UNTAG and set the other VLANs to Not Join.
LAN		Enable	
IDT) (
IPTV		Incontraction and a second second second	
IPv6 Address		WAN Settings LAN	I Settings DHCPv6 Clients
in to riddress			
Repeater/WISF		WAN_V6	
WLAN	\sim	* Internet	DHCP 🗸
Security	\sim		No username or password is required for DHCP clients.
, , , , , , , , , , , , , , , , , , ,		IDv6 Addross	
VIII VON	~	Irvo Address	
SEVPIN			
		IPv6 Prefix	
Advanced	~		
		Gateway	
@ Diagnostics	~		
		DNS Server	
System :	\sim	Divis Sciver	
		NAT66	
			Save
Collapse			

The LAN Settings module allows you to configure LANv6 settings. For IPv6 Assignment, you can chose Auto, DHCPv6 and SLAAC. For IPv6, you need to input one IPv6 Prefix.

Basics	^	WAN Settings	I Settings DHCPv6 Clients	
WAN				
LAN		IPv6 Assignment	DHCPv6	0
IPTV		IPv6 Address/Prefix	0:0::2	
IPv6 Address		Length		
Repeater/WISP	b		Advanced Settings	
	~	Subnet Prefix Name	Default	0
👑 Repeaters		Subnet Prefix Length	64	0
⊘ Security	~	Subnet ID	0	0
VPN	Ý	* Lease Time(Min)	30	0
Advanced	~	DNS Server	Example: 0:0::2, each separated by a comma.	
@ Diagnostics	~		Save	
«Collapse				

The DHCPv6 Clients module allows you to configure DHCPv6 clients.

Ruijie	Reyce	1 Home	Endpoints	Internet	ି Wi-Fi	-B More	English ~ 🔡	ê 8
∌ Basics ^	IPv6 Address							
WAN	 When IPv6 is enabled, the 2. If you want to set more th 	MTU of IPv4 WAN por an one IPv6 LAN, plea	rt must be greater than 1280. se choose Port VLAN to set o	nly one VLAN to UNTAG and	set the other VLANs to No	t Join.		
LAN IPTV	Enable							
IPv6 Address	WAN Settings LAN Settings	DHCPv6 Clients						
Repeater/WISP	OHCPv6 Clients You can view the DHCPv6 cli	ents information on th	is page.					
≧WLAN ~	DHCPv6 Clients						Search by DUID	Q
) Security	No. Hostn	ame	IP	v6 Address	Remainir	ng Lease Time(min)	DUID	
∄VPN ~				No	Data			
∃Advanced ~								
Diagnostics	1 > 10/page ~							Total 0
System								

1.5 Repeater/WISP

Router: the Repeater/WISP module displays the current mode and the other available modes. When device works as Router mode, it means this device acts as the DHCP server and connected users will obtain the ip address from this device.

⊕ Basics	^	The device is wor	king in Router mode. The fe	ollowing three modes are availal	ole:
WAN		• Router	O Access Point	O Wireless Repeater	O WISP
LAN					
IPTV					
IPv6 Address					
Repeater/WISP					
	\sim				
⊘ Security	~				
	~				
Advanced	\sim				
@ Diagnostics	\sim				
-=- -=- System	~				
«Collapse					

Access Point

The Access Point mode relies on a network cable to provide reliable transmission over a more stable Wi-Fi network with less interference. You are advised to use the wired repeater mode. Ensure that the primary router can access the Internet with DHCP server enabled. Otherwise, the configuration will fail.

Click **Access Point**, click **Check**, and then click **Save**. The device will run in the AP mode, namely, network address translation (NAT) and DHCP-related routing functions will be disabled.

Basics	^	The device is working in	Router mode. The follo	owing three modes are ava	iilable:
WAN		O Router	Access Point	O Wireless Repeater	O WISP
LAN		This mode allows	you to establish a wired o	connection between a prima	ry router and a secondary router, extending network coverage.
IPTV		Cable Connection	: Please connect the WAN	N port of the local router to t	the LAN port of the primary router.
IPv6 Address		Wired Repeater			
Repeater/WISP		Status	Cable Plugged		
	~		IP Address: 192.168.111	.38	
⊘ Security	~	* Local Router SSID	@Ruijie-sC801_5G		
Jen VPN	~	Password	•••••	۵	
🗄 Advanced	×		Save		
@ Diagnostics	\sim				
$\frac{-n}{-n}$ System	~				
«Collapse					
<u>A</u>	Note	e:			

Ensure that the primary router can access the Internet with DHCP server enabled. After the configuration is saved, the Wi-Fi network will be restarted, and clients need to reconnect the Wi-Fi network.

Wireless Repeater

The wireless repeater mode extends the Wi-Fi coverage of the primary router. Switch this device over to the wireless repeater mode, it needs slave device connect the SSID of master device. After enable this feature, the connected users will obtain the IP address from the uplink device.

Click Wireless Repeater and then click Select. A list of surrounding Wi-Fi signals pops up.

Basics	^	The device is working in Router mode. The following three modes are available:
WAN		Router Access Point Wireless Repeater WISP
LAN		This mode allows you to establish a wireless connection between a primary router and a secondary router, extending network coverage.
IPTV		 The local router will work as a secondary router. It is recommended to select a 5G Wi-Fi of the primary router.
IPv6 Address		Wireless Repeater
Repeater/WISP		
⊚WLAN	~	Primary Kouter
Security	~	* SSID Select
0		
VPN	~	
	~	
@ Diagnostics	~	
System	~	
- <u>-</u>		
«Collapse		

SSID	5G	✓ Re-sca	n	
SSID	BSSSID	Security	Channel	RSSI
@Ruijie- s49FD_5G	c2:b8:e6:11:49:ff	WPA2PSK	48	-22 dBm High
Reyee_test	30:0d:9e:e7:e9:19	OPEN	161	-26 dBm High
Router RAP	ec:b9:70:23:a4:99	OPEN	60	-27 dBm High
Г department	3a:0d:9e:e7:e9:19	OPEN	161	-27 dBm High
∮Ruijie-s0D13	ee:b9:70:8e:0d:15	OPEN	64	-29 dBm High

Basics	^	The device is working in Router mode. The following three modes are available:
WAN		Router Access Point Wireless Repeater WISP
LAN		This mode allows you to establish a wireless connection between a primary router and a secondary router, extending network coverage. The local router will work as a secondary router.
IPTV		It is recommended to select a 5G Wi-Fi of the primary router.
IPv6 Address		Wireless Repeater
Repeater/WISP		Primary Router
♥WLAN	~	*SSID @Ruijie-s49FD_5G Select
⊘ Security	~	* Wi-Fi Password 🛛 💿
₩ VPN	~	Local Router
🗄 Advanced	~	Local Router Wi-Fi O New Wi-Fi O Same as Primary Router Wi-Fi
@Diagnostics	~	* SSID(2.4G) @Ruijie-s49FD_5G_plus
System	~	* SSID(5G) @Ruijie-s49FD_5G_plus_5G
		Wi-Fi Password 💿
		Save
«Collapse		

SSID	BSSSID	Security	Channel	RSSI
@Ruijie- s49FD_5G	c2:b8:e6:11:49:ff	WPA2PSK	48	-22 dBm High
Reyee_test	30:0d:9e:e7:e9:19	OPEN	161	-26 dBm High
Router RAP	ec:b9:70:23:a4:99	OPEN	60	-27 dBm High
T department	3a:0d:9e:e7:e9:19	OPEN	161	-27 dBm High
⊉Ruijie-s0D13	ee:b9:70:8e:0d:15	OPEN	64	-29 dBm High

LAN IPTV		• This mode allo • The local route • It is recommen	ws you to establish a wireless connection between a primary router and a secondary router, extending network coverage. er will work as a secondary router. ded to select a 5G Wi-Fi of the primary router.
IPv6 Address		Wireless Repeate	er
Repeater/WISF		Primary Router	
িWLAN	~	* SSID	@Ruijie-s49FD_5G Select
⊘ Security	×	* Wi-Fi Password	••••••
VPN	~	Local Router	
Advanced	~	Local Router Wi-Fi	New Wi-Fi Same as Primary Router Wi-Fi
@Diagnostics	~	* SSID(2.4G)	@Ruijie-s49FD_5G_plus
System	~	* SSID(5G)	<pre>@Ruijie-s49FD_5G_plus_5G</pre>
		Wi-Fi Password	••••••
			Save
«Collapse			

In this mode, you can create new WiFi for users to connect or chose the WiFi same as primary router WiFi.

Note:

- 1) The wireless repeater mode will affect the network speed and stability. You are advised to plug in a network cable and select the wired repeater mode if the network cable is available.
- 2) In the wireless repeater mode, unpluging the WAN cable to prevent loops, which may cause network interruption.

WISP

Switching the device to the WISP mode allows users to establish their own WLAN for Internet access in public spaces, such as coffee shop, hotel, airport or restaurant. WISP configures the WAN port of router to wireless access. Please first select the access type (DHCP, PPPoE or Static IP), and connect to the specific SSID.

Basics	^	The device is working in Pouter mode 1	be following three n	odoc aro availablo:				
WAN		Router Access Point	O Wireless	Repeater	• WISP			
LAN		• WISP configures the WAN port	of router to wireless a	cess. Please first sele	ect the access t	ype (DHCP, P	PPoE or Static IP), and connect to the specific SSID.
IPTV		 WISP allows users to establish t 	heir own WLAN for Int	ernet access in publi	c spaces, inclu	ding coffee, h	otel, airport or r	estaurant.
IPv6 Address		WAN						
Repeater/WISP		* Internet DHCP		~				
	~	No username or password	is required for DHCF	clients.				
⊘ Security	~	N	ext					
VPN	~							
🗄 Advanced	\sim							
@ Diagnostics	~							
-o- -o- System	~							
«Collapse								
«Collapse							_	
≪ Collapse ⊕ Basics	^	The device is working in Router mode.	1					
«Collapse Basics WAN	~	The device is working in Router mode.	T 56 Wi-Fillist 9	elect a target W	i-Fi	-	×	
Collapse	^	The device is working in Router mode. Router KUSP configures the WAN port WISP allows user to actablish	5G Wi-Fi List S	ielect a target W	i-Fi. ∀ Re-scar	_	×	ind connect to the specific SSID.
Collapse	^	The device is working in Router mode. Router Access Point USP configures the WAN port WISP allows users to establish t	5G Wi-Fi List S	elect a target W	i-Fi. ∨ Re-scar	Channel	RSSI	ind connect to the specific SSID. aurant.
Collapse Basics WAN LAN IPTV IPv6 Address	^	The device is working in Router mode. Router Access Point VISP configures the WAN port WISP allows users to establish to Wireless Repeater	SG Wi-Fi List S	ielect a target W	<mark>i-Fi.</mark> ∨ Re-scar Security	Channel	KSSI -23 dBm	ind connect to the specific SSID. aurant.
«Collapse WAN LAN IPTV IPV6 Address Repeater/WISP	~	The device is working in Router mode. Router Access Point WISP configures the WAN port WISP allows users to establish the Wireless Repeater Primary Router	SG Wi-Fi List S SSID ©Ruijie- s49FD_5G	select a target W SG BSSSID c2:b8:e6:11:49:ff	i-Fi. Re-scar Security WPA2PSK	Channel 48	RSSI -23 dBm High	nd connect to the specific SSID. aurant.
≪Collapse WAN LAN IPTV IPV6 Address Repeater/WISP ♥WLAN	~	The device is working in Router mode. Route Access Point WISP configures the WAN port WISP allows users to establish the Wise Repeater Primary Router * SSID Select	5G Wi-Fi List S SSID ©Ruijie- s49FD_5G Reyee_test	elect a target W SG BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19	i-Fi. Re-scar Security WPA2PSK OPEN	Channel 48 161	RSSI -23 dBm High -27 dBm High	nd connect to the specific SSID. aurant.
Collapse Collapse Basics WAN LAN IPTV IPt/6 Address Repeater/WISP TWLAN Security	*	The device is working in Router mode. Router Access Point VUSP configures the WAN port VUSP allows users to establish to Wiseless Repeater Primary Router * SSID Select Previous	5G Wi-Fi List S SSID ©Ruijie- s49FD_5G Reyee_test Guest_APP	elect a target W 5G BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66	i-Fi. Re-scar Security WPA2PSK WPA2PSK	Channel 48 161 56	RSSI -23 dBm High -27 dBm High -28 dBm High	nd connect to the specific SSID. aurant.
Collapse Collapse WAN LAN IPV6 Address Repeater/WISP ♥ WLAN ♥ Security ♥ Security	× × ×	The device is working in Router mode. Router Access Point WISP configures the WAN port WISP allows users to establish Wireless Repeater Primary Router * SSID Select Previous	SG Wi-Fi List S SSID © Ruijie- s49FD_5G Reyee_test Guest_APP TestRAP2200F	elect a target W 5G BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66	i-Fi. Security WPA2PSK OPEN WPA2PSK OPEN	Channel 48 161 56	R551 -23 dBm High -27 dBm High -28 dBm High -28 dBm High	ind connect to the specific SSID. aufant.
Collapse Collapse WAN LAN IPTV IPv6 Address Repeater/WISP ♥ WLAN ② Security ♥ VPN ♠ Advanced	*	The device is working in Router mode. Router Access Point WISP configures the WAN port WISP allows users to establish Wireless Repeater Primary Router * SSID Select Previous	SG Wi-Fi List S SSID ©Ruijie- s49FD_5G Reyee_test Guest_APP TestRAP2200F Router RAP	ielect a target W 5G BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66 c4:70:ab:a2:71:66 ec:b9:70:23:a4:99	i-Fi. Security WPA2PSK OPEN WPA2PSK OPEN	Channel 48 161 56 56 60	R551 -23 dBm High -27 dBm High -28 dBm High -28 dBm High -28 dBm High	ind connect to the specific SSID. aurant.
Collapse Collapse WAN LAN IPTV IPt6 Address Repeater/WISP Security Security Security Security Shdvanced Olagnostics	× × ×	The device is working in Router mode. Router Access Point Configures the WAN port WISP allows users to establish Wireless Repeater Primary Router * SSID Select Previous	SG Wi-Fi List S SSID SSID @Ruijie- s49FD_5G Reyee_test Guest_APP TestRAP2200F Router RAP	ielect a target W 5G 85551D c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66 c4:70:ab:a2:71:66 ec:b9:70:23:a4:99	i-Fi. Re-scar Security WPA2PSK OPEN OPEN	Channel 48 161 56 56 60	RSSI -23 dBm High -28 dBm High -28 dBm High -28 dBm High	ind connect to the specific SSID. aurant.
Collapse	· · · · · · · · · · · · · · · · · · ·	The device is working in Router mode. Router Access Point VISP configures the WAN port VISP allows users to establish the Wireless Repeater Primary Router * SSID Select Previous	SG Wi-Fi List S SSID SSID @Ruijie- s49FD_5G Reyee_test Guest_APP TestRAP2200F Router RAP	ielect a target W 5G BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66 c4:70:ab:a2:71:66 ec:b9:70:23:a4:99	i-Fi. Ce-scar Security WPA2PSK OPEN WPA2PSK OPEN	Channel 48 161 56 56 60	R551 -23 dBm High -27 dBm High -28 dBm High -28 dBm High	ind connect to the specific SSID. aurant.
Collapse	× • • •	The device is working in Router mode. Router Access Point WISP configures the WAN port WISP allows users to establish Wireless Repeater Primary Router * SSID Select Previous	SG Wi-Fi List S SSID © SSID @Ruijie- s49FD_5G Reyee_test Guest_APP TestRAP2200F Router RAP	ielect a target W 5G BSSSID c2:b8:e6:11:49:ff 30:0d:9e:e7:e9:19 c6:70:ab:72:71:66 c4:70:ab:a2:71:66 ec:b9:70:23:a4:99	i-Fi. Re-scar Security WPA2PSK OPEN OPEN OPEN	Channel 48 161 56 56 60	RSSI -23 dBm High -28 dBm High -28 dBm High	ind connect to the specific SSID. aurant.

Note:

After you click **Save**, the Wi-Fi network will restart. You need to connect the new Wi-Fi network. Exercise caution when performing this operation. Remember the SSID and password.

₿Basics	^	The device is working in Router mode. The following three modes are available:	
WAN		Router Access Point Wireless Repeater	
LAN IPTV		 WISP configures the WAN port of router to wireless access. Please first select the access type (DHCP, PPPoE or Static IP), an WISP allows users to establish their own WLAN for Internet access in public spaces, including coffee, hotel, airport or resta 	id connect to the specific SSI urant.
IPv6 Address		Wireless Repeater	
Repeater/WISP		Primary Router	
WLAN	~	* SSID @Ruijie-s49FD_5G Select	
∂ Security	~	* Wi-Fi Password	
VPN	~	Local Router	
吕 Advanced	~	Local Router Wi-Fi 💿 New Wi-Fi 📀 Same as Primary Router Wi-Fi	
© Diagnostics	\sim	* SSID(2.4G) @Ruijie-s49FD_5G_plus	
System	\sim	* SSID(5G) @Ruijie-s49FD_5G_plus_5G	
		Wi-Fi Password 🛛 💿	
		Previous Save	

In this mode, you can create a new WiFi for the user to connect or choose the WiFi same as primary router WiFi.

	Finish
Plea disc	ase connect to the Wi-Fi network again. If you fail to over the SSID, please try again.
SS	SID (2.4G):
@	Ruijie-s49FD_5G_plus
SS	SID (5G):
@	Ruijie-s49FD_5G_plus_5G
W	/i-Fi Password:
**	*******

4.5.1.3 WLAN

1.1 Wi-Fi

a) Wi-Fi settings

The WiFi Settings module allows you to configure the primary WiFi. If the **Dual-Band Single** function is enabled, the 2.4G and 5G bands will use the same SSID.

Basics	~	Wi-Fi Settings Gue	st Wi-Fi Smart V	Wi-Fi Healthy I	ode	
♥	^	<i>i</i> Tip: Changing cor	figuration requires a r	reboot and clients wil	e reconnected.	
Wi-Fi Blacklist/White Radio Frequer	elist ncy	Wi-Fi Settings	(The 2.4G an	d 5G bands use the	ame SSID.)	
⊘ Security	~	* SSID(2.4G)	@Ruijie-s49FD			
፼VPN 母Advanced	~	* SSID(5G)	@Ruijie-s49FD_5G			
@ Diagnostics	~	Security	WPA_WPA2-PSK	Ý		
System	~	* Wi-Fi Password	•••••	***		
			Save			
«Collanse						

Click the **Expand** button to make some advanced settings for this SSID, including Wireless Schedule, Hide SSID, AP isolation, Band Steering and Xpress. For **Wireless Schedule**, you can choose All Time, Weekdays, Weekends and Custom.

Basics	~	* SSID	@Ruijie-s49FD
≑WLAN	^	Security	WPA_WPA2-PSK
Wi-Fi		* Wi-Fi Password	······ > ₇ 4
Blacklist/White	elist		Collarse
Radio Frequen	ю		compac
⊘ Security	\sim	Wireless Schedule	All Time ~
we vpn	~	Hide SSID	(The SSID is hidden and must be manually entered.)
🗄 Advanced	~	AP Isolation	(The client joining this Wi-Fi network will be isolated.)
@ Diagnostics	~	Band Steering	(The 5G-supported client will access 5G radio preferentially.)
System	~	XPress	(The client will experience faster speed.)
			Save
Collapse			

Hide SSID: Hiding the SSID can prevent unauthorized users from accessing the Wi-Fi network and enhance network security. After this function is enabled, the mobile phone or PC cannot search out the SSID. Instead, you have to manually enter the correct SSID and password.

Xpress: if this feature is enabled, you will have a more stable gaming experience.

b) Guest Wi-Fi

This Wi-Fi network is provided for guests and is disabled by default. It supports user isolation, that is, accessed users are isolated from each other. They can only access the Internet via Wi-Fi, so as to ensure safety.

The guest Wi-Fi network can be turned off as scheduled. You can configure to turn off the guest Wi-Fi network one hour later. When the time expires, the guest network is off.

Basics	~	Wi-Fi Settings Gue	est Wi-Fi Smart Wi-Fi	Healthy Mode
ি₩LAN	^	<i>i</i> Tip: Changing co	nfiguration requires a reboot a	and clients will be reconnected.
Wi-Fi Blacklist/White	list	Guest Wi-Fi		
Radio Frequenc	y	Enable		
Security	~	Dual-Band Single	(The 2.4G and 5G ba	pands use the same SSID.)
VPN	~	SSID		
음 Advanced	~	* SSID	@Ruijie-guest-49FD	
@ Diagnostics	~	Security	Open	~
	~		Expand	
			Save	
«Collapse				

Click the **Expand** button to make some advanced settings for guest WiFi, including Wireless Schedule, Hide SSID, AP isolation, Band Steering and Xpress. For Wireless Schedule, you can chose Never Disable, Disable 1 Hour Later, Disable 6 Hour Later, Disable 12 Hour Later and other Time. The AP isolation is enabled by default and cannot be edited.

⊕Basics	~	SSID		
ŵWLAN	^	* SSID	@Ruijie-guest-49FD	
Wi-Fi		Security	Open	×
Blacklist/Whit	telist			
Radio Freque	ncy		Collapse	
⊘ Security	~	Wireless Schedule	Never Disable	
		Hide SSID	Never Disable	nanually entered.)
	×.		Disable 1 Hour Later	
🗄 Advanced	~	AP Isolation	Disable 6 Hours Later	ork will be isolated.)
@ Diagnostics	~	Band Steering	Disable 12 Hours later Other Time	ess 5G radio preferentially.)
System	~	XPress	(The client will experience faste	r speed.)
			Save	
«Collapse	9			

c) Smart Wi-Fi

The smart Wi-Fi network is disabled by default. Smart terminal devices can connect to the smart Wi-Fi network for long. The smart Wi-Fi network cannot be turned off as scheduled.

Basics	~	Wi-Fi Settings Guest Wi-Fi Smart Wi-Fi Healthy Mode
ŵWLAN	^	Tip: Changing configuration requires a reboot and clients will be reconnected.
Wi-Fi Blacklist (Whitel	ict	Smart Wi-Fi
Radio Frequenc	y	Enable
⊘ Security	~	Dual-Band Single (The 2.4G and 5G bands use the same SSID.)
	~	SSID
	~	* SSID(2.4G) SmartWiFi
@ Diagnostics	~	* SSID(5G) SmartWiFi_5G
-=- System	~	Security Open
		Collapse
<i>4</i> C 11		Wireless Schedule All Time ~
« Collapse		

Click **Expand** button to make some advanced settings for smart WiFi, including Wireless Schedule, Hide SSID, AP isolation, Band Steering and Xpress. For Wireless Schedule, you can chose All Time, Weekdays, Weekends and Custom.

Basics	~	* SSID(2.4G)	SmartWiFi
ŵWLAN	^	* SSID(5G)	SmartWiFi_5G
Wi-Fi		Security	Open 🗸
Blacklist/Whitel	ist		Collarca
Radio Frequenc	y		Сопарае
⊘ Security	\sim	Wireless Schedule	All Time 🗸
	~	Hide SSID	(The SSID is hidden and must be manually entered.)
음 Advanced	\sim	AP Isolation	(The client joining this Wi-Fi network will be isolated.)
@ Diagnostics	~	Band Steering	(The 5G-supported client will access 5G radio preferentially.)
-=- System	\sim	XPress	(The client will experience faster speed.)
			Save
«Collapse			

d) Healthy Mode

Click **Enable** to enable the healthy mode. You are allowed to set the effective time period for the healthy mode.

After the healthy mode is enabled, the transmit power and the Wi-Fi coverage area will decrease. It is recommended to enable the healthy mode because which can reduce signal strength and cause network stalling.

Basics	~	Wi-Fi Settings Guest Wi-Fi Smart Wi-Fi Healthy Mode
₩LAN	^	Enable healthy mode, and the device will decrease its transmit power to reduce radiation.
Wi-Fi		Tip: Changing configuration requires a reboot and clients will be reconnected.
Blacklist/White	list	Healthy Mode
Radio Frequen	cy	Enable
⊘ Security	~	
	~	Wireless Schedule All Time
合 Advanced	~	All Time
		Weekdays
@ Diagnostics	~	Custom
System	~	
Collapse		

1.2 Blacklist/Whitelist

Wi-Fi blacklist: Clients in the Wi-Fi blacklist are prevented from accessing the Internet. Clients that are not added to the Wi-Fi blacklist are free to access the Internet.

Wi-Fi whitelist: Only clients in the Wi-Fi whitelist can access the Internet. Clients that are not added to the Wi-Fi whitelist are prevented from accessing the Internet.

Choose More > WLAN > Blacklist/Whitelist.

⊕ Basics ~	• 10 mm		
\$₩LAN ^	All STAs except blacklisted STAs are allowed to access Wi-Fi.	Only the whitelisted STAs are allowed to access Wi-Fi.	
Wi-Fi	Blocked WLAN Clients		+ Add 🗇 Delete Selected
Blacklist/Whitelist	Up to 30 members can be added.		
Radio Frequency	MAC	Remark	Action
⊘ Security ∨	4C:t	,	Edit Delete
₩ VPN ~	< 1 > 10/page ~		Total 1
🖻 Advanced 🛛 🗠			
@ Diagnostics			
📲 System 🗸			
			2
«Collapse			

Select the blacklist mode and click Add. The default mode is blacklist mode.

In the pop-up dialog box, enter the MAC address and remarks of the client to be blacklisted. The device displays information about the connected clients. Select a client, and it will be added to the blacklist automatically. Click OK to save the configuration. The client will be disconnected and prevented from connecting to the Wi-Fi network.

Configuration

Reyee Cookbook

Ruíjie	Reyce	1 Home	Endpoints	Internet	(îr Wi-Fi	-a- -a- More	English - 🎇 🔶 🛞
Basics							
\$₩LAN ^	All STAs except black	listed STAs are Add				× ss Wi-Fi.	
Wi-Fi	Blocked WLAN Cli	ents	* MAC	Example: 00:11:22:33:44:	55		+ Add 🗇 Delete Selected
Blacklist/Whitelist	Up to 30 members can	be added.	Remark	EW1200G-PRO-CBC801	(t		
Radio Frequency		MAG		USER-20191214JF (51		Action
⊘ Security ~		4C:02:20:5			Cancel OK		Edit Delete
₩ VPN ~	1 2 10/0	ane					Total 1
合 Advanced ····································							
@Diagnostics ~							
書 System 👋							
							6
«Collapse							

Click **Delete**. The client can connect to the Wi-Fi network again.

Basics				
⇔WLΔN	All STAs er	xcept blacklisted STAs are allowed to access Wi-Fi.	 Only the whitelisted STAs are allowed to access Wi-Fi. 	
Wi-Fi	Blocked W	VLAN Clients		+ Add
Blacklist/Whitelist	Up to 30 m	embers can be added.		
Radio Frequency		MAC	Remark	Action
⊘ Security ~~~		4C	*	Edit Delete
₩ VPN ···································	< 1	> 10/page ~		Total 1
合 Advanced				
@ Diagnostics				
System				
				e
«Collapse				4

Note:

The steps of adding users into whitelist are same with adding users into blacklist and only clients in whitelist can connect to the Wi-Fi network.

1.3 Radio Frequency

The **Radio Frequency** module allows you to configure Country/Region, channel, channel width, transmit power and roaming sensitivity.

⊕ Basics ~	Tim: Channing configuration requires a report and clients will be reconnected	
≑WLAN ^		
Wi-Fi	Radio Frequency	
Blacklist/Whitelist	Country/Region China (CN)	
Radio Frequency	2.4G Channel Width Auto \checkmark 5G Channel Width Auto	
⊘ Security ~	The settings are valid for only current device	
The second secon	2.4G Channel Auto ~ 5G Channel Auto	
	Transmit Power	a Hiab
@ Diagnostics	Roaming Sensitivity O Roaming Sensitivity O	- Tright
-#- -#- System	Low 20% 40% 60% 80% High O	, High
		6
	Save	1
«Collapse		

4.5.1.4 Security

1.1 ARP List

The ARP List page displays ARP entries and supports ARP binding. Click **Bind** to change one user's MAC address and IP address as static-bind, then enable the ARP Guard function, only users with static-bind can access the internet.

Basics	2	The device leader the device l	arns IP-MAC mapping of all devices conr uard and configure IP-MAC binding to ir	nected to its interfaces. You can bind or filter the MAG nprove network security.	address.	0
		ARP Guard				
ARP List		Enab	le Only the devices configu	red with IP-MAC binding are allowed to access	the Internet.	
🖽 VPN	~	ARP List		Search by IP/MAC	Q + Add	
合 Advanced	~	Up to 64 IP-MAG	C bindings can be added.			
@ Diagnostics	×	No.	MAC	IP	Туре	Action
-e- -e- System	×	D 1		192.168.111.147	Dynamic	@ Bind
		2	36	172.26.4.1	Static	Edit Delete
		□ 3	3	172.26.5.195	Static	Edit Delete
		· 4	5	172.26.5.119	Static	Edit Delete
«Collapse				102 169 111 47	(Pa. 47)	Edit Dalata

4.5.1.5 VPN

The PPTP settings allow you to configure this device as the PPTP clients. After input the correct information including **Username**, **Password**, **Server address** and **peer subnet**, the VPN tunnel will be created and you can see it in the **Tunnel List**.

Basics	~	PPTP Settings Tunne	el List					
⇔WLAN	~	PPTP Settings						0
器 Repeaters		Client						
⊘ Security	~	* Username	test					
₩VPN		* Password		0				
РРТР		Interface	WAN					
Advanced Output	~	Tunnel IP	• Dynamic 🔿 Static					
System	~	* Server Address	172.26.5.237					
		* Peer Subnet	192.168.1.0/24					
		Work Mode	NAT O Router					
		* PPP Hello Interval	10	seconds				
			Save					
PPTP Setting	s Ti	unnel List						
🥡 Tunn	el List							0
								Delete Selected
	Usern	ame Server/	/Client Tunnel Name	Virtual Local IP	Access Server IP	Peer Virtual IP	DNS	Action
	tes	t Clie	ent pptp	1.1.1.2	172.26.5.237	1.1.1.1	1.1.1.1	Delete

4.5.1.6 Advanced

1.1 Flow Control

Choose More > Advanced > Flow Control > Smart Flow Control.

Click Enable and set the network bandwidth provided by the ISP. After the configuration is saved, the router adjusts the bandwidth of each client based on the total bandwidth to prevent any one client from occupying too much bandwidth.

Note:

After flow control is enabled, speed measurement will be affected. Disable flow control if you want to do speed measurement.

⊕ Basics	~	Smart Flow Control
ŵWLAN	~	Smart Flow Control
⊘ Security	\sim	Adjust the bandwidth allocated to each user according to the user count.
	~	Enable () If you want to test the WAN rate, please disable smart flow control first.
合 Advanced	^	WAN Bandwidth * Up 100 Mbps * Down 100 Mbps
Flow Control		Save
Port Mapping		
Dynamic DNS		
UPnP Settings		
Local DNS		
Reyee Mesh		
«Collapse		

1.2 Port Mapping

a) Overview

Port mapping maps the IP address of a device on the LAN to an external network in the form of a combination of a WAN IP address and a port number, so as to provide the external network access service.

1) Scenario 1: When you need to access IP cameras or PCs at home while you are away from home, port mapping needs to be configured.

2) Scenario 2: When a server needs to be set up on the home network for Internet access, port mapping or demilitarized zone (DMZ) needs to be configured.

Port mapping maps the WAN port IP address of a router to an internal network host and port so that Internet users can proactively access hosts on the LAN.

DMZ forwards all packets from the Internet to DMZ hosts to provide the Internet access service.

b) Getting Started

1) Confirm the IP address of the target device in the internal network and service port ID.

2) Ensure that port mapping is available in the internal network.

c) Configuration Steps

Choose More > Advanced > Port Mapping.

Reyee Cook	book							Co	onfiguration
									-
⊕ Basics ~	Port Mapping N	IAT-DMZ							
∕ ⊗ WLAN	Port Mappin	g						0	
⊘ Security ~	Port Mapping	List					+ Add	Delete Selected	
Server VPN	Unito 50 entries	an he added							
Advanced ∩	op to so entries t	an be added.	P. CONT.						
Flow Control	Na	me	Protocol	External IP Address	External Port	Internal IP Address	Internal Port	Action	
Port Mapping					No Data				
Dynamic DNS		10/page 😪						Total 0	
UPnP Settings									
Local DNS									
Reyee Mesh									
Hardware Acceleration	1							6	
Collapse									

Click **Add**. In the pop-up dialog box, enter the name, service type, protocol type, external port/range, internal IP address, and internal port/range. A maximum of 50 port mapping rules can be configured.

* Name	PortMappingTest	
Preferred Server	HTTP	~
Protocol	ТСР	~
External IP Address	172.26.5.104	
* External Port/Range	8080	
* Internal IP Address	192.168.111.106	
* Internal Port/Range	80	

Name: Enter a name for easy maintenance.

Preferred Server: Select a service to be mapped, such as HTTP or FTP. The device will automatically fill in the internal port number of the service. If you are not sure of the service, you can select Custom.

Protocol: Select the transport-layer protocol used by the selected service, such as ALL, TCP, or UDP. The configuration on the server end must be consistent with that on the client end.

External Port/Range: Enter the port number used for external network access. You need to check the port number in software, such as camera monitoring software.

Internal IP Address: Enter the LAN IP address used by external networks to access the device, such as the IP address of an IP camera.

Internal Port/Range: Enter the port number used by an application accessed by external networks, such as port 8080 used by the Web service.

d) Verification and Testing

Use an external device to test whether the destination service is accessible based on the external IP address and port number.

e) Solution to a Test Failure

1) Use a new external port number and perform the test again. The test often fails on the ports blocked by firewalls of some ISPs.

2) Enable the remote access permission on the server. The common cause is that remote access is disabled on the server by default. As a result, the internal network access is successful but the access across different network segments is failed.

f) DMZ Configuration Steps

Choose More > Advanced > Port Mapping > NAT-DMZ.

Click Enable, enter the IP address of the internal server, and click Save.

Basics	Port Mapping NAT-DMZ
	i NAT-DMZ
⊘ Security	× Enable
	* Dest IP Address 192.168.111.47
	Save
Flow Control	
Port Mapping	
Dynamic DNS	
UPnP Settings	
Local DNS	
Reyee Mesh	
Hardware Accel	eration
Port Sottings «Collapse	
1.3 Dynamic D	DNS

a) Overview

After the dynamic domain name service (DDNS) is enabled, you can use the fixed domain name on the Internet to access service resources of the router without checking the IP address of the WAN port. To make the service available, you need to register an account and domain name with a third-party DNS service provider. The router supports PeanutHull, Dyn DNS, and No-IP DNS.

b) Getting Started

Register an account and domain name at PeanutHull or No-IP official website.

c) Configuration Steps

Choose More > Advanced > Dynamic DNS > Dynamic DNS.

Peanut Shell NAT is a more advanced version of DDNS, which can be used when an internal network IP address is configured for the WAN port. Peanut Shell NAT is recommended. Click Enable and then click Save. The service status and QR code for login appear in the lower part of the page. Scan the QR code to log in by using WeChat or PeanutHull app (the QR code shown in the figure below is not available. Scan the QR code displayed on your device).

If you select Peanut Shell NAT, Dynamic DNS, No-IP DNS, or DynDNS, enter the registered account and password, and click Log In. The connection status and domain name will be displayed in the lower part of the page.



Basics	~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS
	~	- Dynamic DNS			
⊘ Security	~	<i>i</i> It is recommende	ed to use Peanut Sh	nell for NAT, includi	ing TCP, UDP, HTTP and HTTPS mapping.
	~	* Username			
음 Advanced	^	* Password			
Flow Control			Log In	Delete	
Port Mapping		Link Status			
Dynamic DNS		Demein			
UPnP Settings		Domain			
Local DNS					
Reyee Mesh					
Hardware Accele	eration				
Port Sottings «Collapse					
Basics	~	Peanut Shell NAT	Dvnamic DNS	No-IP DNS	DvnDNS
⊕ Basics	~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS
⊕ Basics 〒WLAN ⊘ Security	~ ~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS
⊕ Basics ↔ WLAN ⊘ Security ₩ VPN	~ ~	Peanut Shell NAT No-IP DNS * Username	Dynamic DNS	No-IP DNS	DynDNS Register
⊕ Basics ♥ WLAN ⊘ Security ♥ VPN	~ ~	Peanut Shell NAT No-IP DNS * Username * Password	Dynamic DNS	No-IP DNS	DynDNS Register
⊕ Basics 	~ ~ ~	Peanut Shell NAT No-IP DNS * Username * Password Domain	Dynamic DNS	No-IP DNS	DynDNS Register
 ⇔ Basics ⇔ WLAN ⇔ Security ⇔ VPN ⇔ Advanced Flow Control Port Mapping 	~ ~ ~ ~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register
⊕ Basics ♥ WLAN ◇ Security ♥ VPN ← Advanced Flow Control Port Mapping Dynamic DNS	~ ~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register
 ⇔ Basics ⇔ WLAN ⇔ Security ⇔ VPN ⇒ Advanced Flow Control Port Mapping Dynamic DNS UPnP Settings 	> > > >	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register ⑦
 ⇔ Basics ⇔ WLAN ⇔ Security ⇔ VPN Port Mapping Dynamic DNS UPnP Settings Local DNS	~ ~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register
 ⇔ Basics ⇔ WLAN ⇔ Security ⇔ VPN PON Control Port Mapping Dynamic DNS UPN Settings Local DNS Reyee Mesh	> > >	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register ⑦
 Basics WLAN Security VPN Advanced Flow Control Port Mapping Dynamic DNS UPnP Settings Local DNS Reyee Mesh Hardware Acceled 	~ ~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS Register ⑦

Basics	~	Peanut Shell NAT	Dynamic DNS	No-IP DNS	DynDNS	
♥ WLAN	~	<i>i</i> DynDNS				
⊘ Security	~	* Username			Register	
	~	* Password				
음 Advanced	^	* Descrip				
Flow Control		^ Domain				
Port Mapping			Log In	Delete	3	
UPnP Settings		Link Status	i -			
Local DNS						
Reyee Mesh						
Hardware Accel	eration					
Port Sottings «Collapse						

1.4 UPnP Settings

a) Overview

The universal plug and play (UPnP) function can map the port used by the client for Internet accessing according to the client's request so that related applications run faster or more stably. Common applications that support UPnP include MSN Messenger, Xunlei, BT and PPLive.

Basics	÷						
		UPnP Settings					
⊚WLAN	.×	UPnP (Universal Plug and Play) is a	i new Internet protocol aimed at in	proving communication between devices.			
 Security 	1	Enable					
I VPN	~	Save					
		LIBpR List					
合 Advanced		OF IF LIST					
Flow Control		Protocol	App	Client IP Address	Internal Port	External Port	
Port Mapping							
				No UPnP Device			
Dynamic DNS				No UPnP Device			
Dynamic DNS				No UPnP Device			
Dynamic DNS UPnP Settings				No UPnP Device			
Dynamic DNS UPnP Settings Local DNS				No UPnP Device			
Dynamic DNS UPnP Settings Local DNS Revee Mech				No UPnP Device			
Dynamic DNS UPnP Settings Local DNS Reyee Mesh				No UPnP Device			
Dynamic DNS UPnP Settings Local DNS Reyee Mesh Hardware Accel	eration			No UPnP Device			e
Dynamic DNS UPnP Settings Local DNS Reyee Mesh Hardware Accel	eration			No UPnP Device			(e Ai

b) Configuration Steps

Choose More > Advanced > UPnP Settings.

Click Enable. You are advised to disable the function. Any applications that use UPnP to map ports will be listed below.

1.5 Local DNS

The Local DNS module allows you to configure a local DNS server.

Basics	~	The local DNS se	rver is not required to be configured. By default, the de	evice will get the DNS server address from	the uplink device.	
≑WLAN	~	Local DNS server	Example: 0.000 asch constrated by a crosco			
⊘ Security	~	Local Divo active	Example: 0.0.00, each separated by a space.			
同VPN	~		Save			
^몸 Advanced						
Flow Control						
Port Mapping						
Dynamic DNS						
UPnP Settings						
Local DNS						
Reyee Mesh						
Hardware Accel	eration					
«Collapse						

1.5 Reyee Mesh

The Reyee Mesh module allows you to enable the mesh function on this device. After Reyee Mesh is enabled, the new router will join the network automatically when being connected to the LAN port of the device. And then you can press the key for Reyee Mesh pairing. After Reyee Mesh is disabled, the bridged slave router will still be connected.

a) Wired MESH

By default, EW1200G-Pro is enabled with Mesh. When the WAN port of EW1200G-Pro is connected, it will automatically identify whether the uplink is an EW1200G-Pro LAN port. If it is, the EW1200G-Pro will automatically change from route mode to mesh mode. If the topology is connected, the network will be automatically connected after the connection is completed, and all the device indicators will turn on (about 5 minutes).



b) Wireless MESH

1) Master must meet two conditions:

①Finish the quick setup

②The WAN port is connected and the interface indicator is on.

2) Slave must meet two conditions:

①Slave is the factory state;

(2)Slave is within 3 meters from the master and is unobstructed (ensure the signal strength is above -35)

3) Both the master and slave are powered on

Press the reset button of the master, and the indicator light will flash quickly

After 1-3S, the slave indicator will start to flash quickly. After the indicator lights of the slave and slave are always on again, the wireless mesh is successful.

Then take the slave to the place where you need to use it and wait for the indicator light to stay on



1.6 Hardware Acceleration

The Hardware Acceleration module allows you to enable hardware acceleration to improve network speed.

Basics		A Hardware Acceleration
≑WLAN	~	After Hardware Acceleration is enabled, the Internet access speed will be improved and clients will not be rate-limited.
⊘ Security	1	Enable 💽
₩ VPN	~	Save
色Advanced		
Flow Control		
Port Mapping	,	
Dynamic DNS		
UPnP Settings	s	
Local DNS		
Reyee Mesh		
Hardware Acc	celeration	
Dort Cottinor		-
«Collapse	2	

1.7 Port Settings

The **Port Settings** module allows you to enable flow control to improve network speed by relieving the data congestion caused by ports at different speeds.

Se VPN	Port Settings
Advanced	Flow control can relieve the data congestion caused by ports at different speeds and improve the network speed.
Flow Control	Flow Control
Port Mapping	Save
Dynamic DNS	
UPnP Settings	
Local DNS	
Reyee Mesh	
Hardware Acceleration	ion
Port Settings	
Other Settings	
@ Diagnostics	
«Collapse	

1.8 Other Settings

The Other Settings module allows you to enable RIP&RIPng, Advanced Firewall and disable ICMPv6 error message.

	~	
-		() Other Settings
Advanced	^	
Flow Control		Enable RIP&RIPng
Port Mapping		Enable Advanced 🖉 🖉
Dynamic DNS		Firewall
UPnP Settings		Disable ICMPv6 Error
Local DNS		Messages
Reyee Mesh		Save
Hardware Accel	eration	
Port Settings		
Other Settings		
@ Diagnostics	~	
-=- System	~	
Collapse		

<i>i</i> Other Settings	
Enable RIP&RIPng	
Encryption	No Encryption V
Enable Advanced Firewall	⑦ Include attack prevention and IP protocol check.
Disable ICMPv6 Error Messages	
	Destination Unreachable
	Datagram Too Big
	Time Exceeded
	Parameter Problem
	Save

RIP&RIPng: including No Encryption, Plain Text and MD5 three manners.

Enable Advanced Firewall: including attack prevention and IP protocol check.

Disable ICMPv6 Error Messages: including Destination Unreachable, Datagram Too Big, Time Exceeded and Parameter Problem.

4.5.2 Maintenance

4.5.2.1 Diagnostics

1.1 Network Check

This page allow you to check your network and fix the problem on this page. The checked items include WAN/LAN Cable, Route, Next Hop Connectivity, DNS Server, IP Session Count and Ruijie Cloud Server.

Ru	jīe	#Reyee	1 Home	Endpoints	Internet	🛜 Wi-Fi	-0- -0- More	English ~		e 8
Basics	×	Network Check								(?)
	×	🕸 In Progress					Ne	twork Check		
⊘ Security	~			40%			You pag	can check your network and fix the pr e.	oblem on th	s
I VPN	~	WAN/LAN Cable					WA	N/LAN Cable		>
合 Advanced	~	Auto-Negotiated Sp	peed				Rou	te		>
@ Diagnostics		WAN Port					Nex	t Hop Connectivity		>
Network Check		DHCP-Assigned IP	Address				DN	5 Server		>
Alarms		LAN & WAN Addre	ss Conflict				IP S	ession Count		>
Network Tools		Loop					Ruij	ie Cloud Server		>
Packet Capture										
-=System	Ŷ									
«Collapse										

1.2 Alarms

The **Alarms** module allows you to view and manage alarms in the network.

Basics	View and manage alarms.		
≑WLAN	Alarm List		View Unfollowed Alarm
⊘ Security	v Evnand Alarme	Suggestion	Action
愛 VPN	×	Suggestion	Action
合Advanced	×	NU Data	
@ Diagnostics	A 10/page -		Total 0
Network Check Alarms Network Tools Packet Captur	ck s re		
«Collapse	9.		
<i>i</i> Viev	v and manage alarms.		
Alarm I	List		View Unfollowed Alarm
Expand	Alarms	Suggestion	Action
>	There is more than one wireless controller in the network.	Please power off the extra wireless controller.	Delete Unfollow
>	A MAC address conflict or loop error occurs.	Please troubleshoot the MAC address conflict or loop error.	Delete Unfollow
>	The LAN IP address is already in use.	Please check the LAN IP address. If it is a static IP address, please change the IP address.	Delete Unfollow
< 1	> 10/page >		Total 3

Click Unfollow in the Action column to unfollow an alarm. In the confirmation box, click OK.

1.3 Network Tools

When you select the ping tool, you can enter the IP address or URL and click Start to test the connectivity between the router and the IP address or URL. The message "Ping failed" indicates that the router cannot reach the IP address or URL.

The Traceroute tool displays the network path to a specific IP address or URL.

The DNS Lookup tool displays the DNS server address used to resolve a URL.

@ Basics	~					
		i Network Tools				
₩LAN	~	Tool	• Ping	e 🔿 DNS Lookup)	
⊘ Security	~	* IP Address/Domain	www.google.com			
뼻 VPN	~	* Ding Count				
음 Advanced	~	- Ping Count	4			
@ Diagnostics	^	* Packet Size	64	Byte	S	
Network Check			Start	Stop		
Alarms		Result				
Network Tools						
Packet Capture					4	
System	~					
«Collapse						

1.4 Packet Capture

Set the interface, protocol, and IP address whose packets need to be captured, file size limit, and packet count limit to limit the volume of packets captured. Click **Start**. Packet capture can be stopped at any time and the link to the generated file is generated. You can download this PCAP file and use Wireshark or another analysis software to open the file.

00				
	×.	i Packet Capture		
₩LAN	~	Interface	ALL	
⊘ Security	~			
VPN	~	Protocol	ALL	
		IP Address		
Advanced	Ť	File Size Limit	2M ×	Available Memory 74.54 M
@ Diagnostics	^			
Network Check		Packet Count Limit	500 ~	
Alarms		PCAP file	Click to download the PCAP file. 🚺	
Network Tools			Click to delete the file.	
Packet Capture		1	Start Stop	
-=- -=- System	~			
«Collapse				
lote:				
🛕 No	ote			

Packet capture may occupy many system resources and cause network stalling. Exercise caution when performing this operation

4.5.2.2 System

1.1 System Time

You can view the current system time. If the time is incorrect, check and select the local time zone. If the time zone is correct but time is still incorrect, click **Edit** to manually set the time. In addition, the router supports Network Time Protocol (NTP) servers. By default, multiple servers serve as the backup of each other. You can add or delete local servers as required.

Basics	v	 Configure and vi 	ew system time	
⇔ WLAN	v	Current Time	2022-03-31 10:16:18	Edit
⊘ Security	×	* Time Zone	(GMT+8:00)PRC	
₩ VPN	×	* NTP Server	0.cn.pool.ntp.org	Add
Advanced	Ŷ		1.cn.pool.ntp.org	Delete
@ Diagnostics			cn.pool.ntp.org	Delete
雲 System			pool.ntp.org	Delete
System Time			asia.pool.ntp.org	Delete
Management			europe.pool.ntp.org	Delete
Upgrade			ntp1.aliyun.com	Delete
LED			Save	
«Collapse				

1.2 Login

a) Login Password

The Login Password module allows you to set the device's login password. You need to log in the system again after changing the password.

⊕ Basics	~	Login Password Session Timeout Remote Access
⊜WLAN	~	Change the login password. Please log in again with the new password later.
⊘ Security	~	* Old Password
	~	* New Password
🖻 Advanced	~	* Confirm Password
@ Diagnostics	~	Sauce
System	^	Save
System Time		
Login		
Management		
Upgrade		
LED		
«Collapse		

b) Session Timeout

The Session Timeout module allows you to set the session timeout period for loging in the eWeb management system.

If no operation is performed on the page within a period of time, the session will be down. When you need to perform operations again, enter the password to open the configuration page. The default timeout duration is 3600 seconds, that is, 1 hour.

Basics	~	Login Password Session Timeout Remote Access	
₩LAN	~	Session Timeout	
⊘ Security	~	* Session Timeout 3600 seconds	
	~	Save	
음 Advanced	~		
@ Diagnostics	~		
System	^		
System Time			
Login			
Management			
Upgrade			
LED			
«Collapse			

b) Remote Access

⊕ Basics	~	Login Password Session Timeout Remote Access
	~	Remote Access
⊘ Security	~	After enabling, the Internet device can visit this URL and this may cause attack.
I VPN	~	Enable
Advanced	~	Login URL http://172.26.5.104
@ Diagnostics	~	Save
System	~	
System Time		
Login		
Management		
Upgrade		
LED		
«Collapse		

After enable the Remote Access, the internet device can visit this URL and this may cause attack.

1.3 Management

a) Backup & Import

The Backup & Import module allows you to import a configuration file and apply the imported settings. It can also import the configuration file, and restore the import configuration.

Configure backup: Click **Backup** to download a configuration file locally.

Configure import: Click **Browse**, select a configuration file backup on the local PC, and click Import to import the configuration file. The device will restart.

	⊕ Basics	\sim	Backup & Import Reset
	⊜WLAN	~	
	⊘ Security	~	 If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Restore before importing the profile. The device will be rebooted automatically later.
		\times	Backup Profile
	🖶 Advanced	~	Backup Profile Backup
	@ Diagnostics	~	Import Profile
	System	^	File Path Please select a file. Browse Import
	System Time		
	Login		
	Management		
	Upgrade		
	LED		
	«Collapse		
b) R	eset		

The Reset module allows you to reset the device to factory settings. The module could provides Reset all routers option only when there is a repeater.

Basics	Backup & Import Reset
≑WLAN	Resetting the device will clear the current settings. If you want to keep the setup, please Backup Profile first.
⊘ Security	Reset
	×
@ Diagnostics	×
System	
System Time	
Login	
Management	
Upgrade	
LED	
«Collapse	
All Routers	 Reset all routers in the network. Reset All Devices
i Resetting	g the device will clear the current settings. If you want to keep the setup, please Backup Profile first. 🥐
All Routers	s 🔽 Reset all routers in the network.
	Reset All Devices
TI ca ag	× he action here may affect the whole network. Please be autious. If the page does not respond, please log in gain. Do you want to continue?

Click **OK** to restore all default values. This function is recommended when the network configuration is incorrect or the network environment is changed.

🛕 Note

Please exercise caution if you want to restore the factory settings.

1.4 Upgrade

a) Online Upgrade

This page allows you to perform online upgrade. If any upgradeable "online version" is available in the network, information of the upradable version will be displayed in this page.

∜WLAN	×	Online Upgrade Local Upgrade
⊘ Security	~	🕖 Online upgrade will keep the current setup. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after upgrade.
	~	Current Version ReyeeOS
🖹 Advanced	~	Auto Upgrade 🔄 Auto upgrade the device when a new version appears.
@ Diagnostics	×.,	
滥 System		
System Time		
Login		
Management		
Upgrade		
LED		
«Collapse		
🕜 Onli	ine up	grade will keep the current setup. Please do not refresh the page or close the browser. You will be
🔮 redi	rected	d to the login page automatically after upgrade.
Contraction		Dever Of
Current Ver	rsion	ReyeeOt
NouvVo	relea	Device Of
New Ver	ISION	Reyeeds
Descrir	otion	1
Deserry	Juon	
		2.
	Tip	1. If your device cannot access the Internet, place click Download File
	np	1. If your device carnot access the internet, please click Download File.
		2. Choose Local Upgrade to upload the file for local upgrade.
		Upgrade Now

Auto Upgrade 🗌 Auto upgrade the device when a new version appears.

Click **Upgrade Now**. The device downloads the upgrade package from the network, and upgrades the current version. The upgrade operation retains configuration of the current device. Alternatively, you can select Download File to the local device and import the upgrade package on the Local Upgrade page. If there is no available new version, the device displays a prompt indicating that the current version is the latest.

Note:

After being updated, the device will restart. Therefore, exercise caution when performing this operation. You are advised to set the scheduled update time to an early morning time to avoid affecting Internet access.

If no version update is detected and online upgrade cannot be performed, check whether the DNS is correctly obtained or go to **More > Advanced > Local DNS** to set the DNS server for the router.

b) Local Upgrade

Click **Browse** to select an upgrade package, and click **Upload.** After uploading and checking the package, the device displays the upgrade package information and a prompt asking for upgrade confirmation. Click **OK** to start the upgrade.

⊜WLAN	~	Online Upgrade Local Upgrade						
⊘ Security	×	<i>i</i> Please do not refresh the page or close the browser.						
	~	Model EW1200G-PRO						
🗄 Advanced	\sim	Current Version ReyeeOS						
@ Diagnostics	Ŷ	Development (It is recommended to be disabled after use.)						
-a- -a- System	^	Mode						
System Time		Keep Setup 🗹 (If the target version is much later than the current version, it is recommended not to keep the setup.)						
Login		File Path Please select a file. Browse Upload						
Management								
Upgrade								
LED								
Reboot								
«Collapse								

1.5 LED

The **LED** module allows you to enable LED.

্থি WLAN	~	LED Status Control Control the LED status of All Equipment.
⊘ Security	~	Enable
VPN	~	Saus -
Advanced	~	Save
@ Diagnostics	~	
System	^	
System Time		
Login		
Management		
Upgrade		
LED		
Reboot		
«Collapse		

- 1.6 Reboot
- a) Reboot

The Reboot module allows you to reboot the device immediately. The module provides the Reset all routers option only when there is any repeater.

ŵWLAN	~	Reboot Scheduled Reboot	
⊘ Security	~	<i>i</i> Please keep the device powered on during reboot.	
	~	Reboot	
음 Advanced	~		
@ Diagnostics	~		
	^		
System Time			
Login			
Management			
Upgrade			
LED			
Reboot			
«Collapse			
A			
Pleas	se kee	ep the device powered on during reboot.	$\langle \rangle$
All Rou	ters	Reboot all routers in the network.	
		Reboot All Device	

Click **Reboot**, and click **OK** in the confirmation box. The device is rebooted and you need to log in the eWeb management system again after reboot. Do not refresh the page or close the browser during the reboot. After the device is successfully rebooted and the eWeb service becomes available, you will be redirected to the login page of the eWeb management system.

b) Scheduled Reboot

The **Scheduled Reboot** module allows you to reboot the device at a scheduled time.

	~	Reboot	Scheduled Reboot
⊘ Security	~	i It is	recommended to set the scheduled time to a network idle time, e.g., 2 A.M
VPN	~		
🗄 Advanced	~		
@ Diagnostics	~		Day 🗹 Mon 🗹 Tue 🔽 Wed 🔽 Thu 🗹 Fri 🔽 Sat 🔽 Sun
:=- System	~		Time 03 ~ : 00 ~
System Time			Save
Login			
Management			
Upgrade			
LED			
Reboot			
«Collapse			

Enable the scheduled reboot, select the time and click Save.

4.6 Reyee Wireless Bridge Configuration

4.6.1 Installing the Device

4.6.1.1 Installation Tools

Tools	Marker, Phillips (crosshead) screwdriver, slotted
	screwdriver, drill, paper knife, crimping pliers, diagonal
	pliers, wire stripper, network cable tester, related power
	and fiber cables, wrench, hammer, hose clamp, ESD tools,
	multimeter.

4.6.1.2 Before installation

Before you install the device, verify that all the parts in the parts list are there and make sure that:

The installation site meets temperature and humidity requirements.

The installation site is equipped with a proper power supply.

Network cables are in place.

4.6.1.3 Precautions

The device can be mounted on a wall and a pole (diameter: 35 mm to 89 mm). If the diameter of the pole is out of the range, the hose clamp should be prepared by customers themselves. In this case, we recommend you to use a hose clamp with thickness of 2.5mm at least. Otherwise, the device could fall down to cause injuries. When multiple bridges are installed at a close range, in order to avoid interference between bridges, the horizontal distance between two bridges should be 2m and the vertical distance be 0.5m, or the horizontal angle of the two bridges should be greater than 120 degrees. The installation site can vary due to on-the-spot surveys conducted by technical personnel.

- 1) Before connecting the power supply, please use the PoE adapter shipped with the device or use a PoE adapter with the same specification.
- 2) Before connecting the power cord, make sure the power switch is in the OFF position.
- 3) Make sure the power supply is properly connected

4.6.1.4 Installing Device

1.1 Wall Mounting (connected to cable in advance)

- 1) Secure the mounting bracket on the wall.
- 2) Install the device to the mounting bracket.

Here are the detailed steps:

a) Drill holes into the marked positions and insert wall anchors. The head of the wall anchor should be at least 10 mm above the wall surface.

b) Assemble the mounting kit.

c) Adjust the orientation.



1.2 Pole Mounting

- 1) Secure the mounting bracket to the pole by threading a clamp through the mounting bracket.
- 2) Install the device to the mounting bracket.

Here are the detailed steps:

- a) Assemble the mounting kit.
- b) Secure the device on a pole by using a hose clamp.
- c) Adjust the orientation.





4.6.2 Login device

4.6.2.1 Power the device

Plug one end of the cable into the PoE port of the PoE injector and plug the other end into the LAN port of the device. Connect the LAN port of the PoE injector to the server or camera. Connect the PoE adapter to the DC port of the PoE injector. Or you can connect the PoE adapter to the DC port of the device. Plug one end of the cable to the LAN port of the device and plug the other end to the server or camera

4.6.2.2 Choose the EST's SSID

The default device management service set identifier (SSID) is @Ruijie-bXXXX. (XXXX is the last four digits of the MAC address of each device, and the default management SSID varies with devices.

4.6.2.3 Login

Input 10.44.77.154 on the browser to login the web page.

4.6.3 Overview

4.6.3.1 Setting the Address of a LAN Port for a Single Online Bridge

WDS Group Info WDS Groups : 1						X Password 🕘 🛛 X IP Allocation 🕥 🛛 X SSID 🚱	
WDS Group1 AP: 1. (TestVCR) Channel: 40 CPE 1. (Online: 1, Offline: 0) WDS SXID:@Ruijie-wds-642c			Latency Fluent(1) Jtler(0) Freeze(0) Bandwidth Good Interference Good(1) Medium(0) Poor(0) RSSI Good(1)			Medium(0) Poor(0) im(0) Poor(0)	~
Strong Signal: — Medium Signal: — Poor Signal. — VCR (AP) Camera (CPE)							
TestVCR /2 Image: Control of the state of t		Latency 3ms Rat	ie 📥 400Mbps Flow	→ 9.76Kbps ← 7.32Kbps	RSSI -48db Uptime 43Min40Sec	TestCPE ℓ 16 ⊗ ∨ MAC: 30.0d/3e/d6 d3:a6 ESTATO IP: 192.168.110.177 Conline	

Choose Overview > WDS Group Info > NVR (AP)/Camera (CPE).

To set the IP address for a single device, click, and select LAN from the drop-down list. The type of IP assignment includes DHCP and static IP address

◇VCR (AP)


LAN × IP Assignment DHCP v DHCP does not require an account. IP Address 192.168.110.206 Subnet Mask 255.255.0 Gateway 192.168.110.1 DNS Server 192.168.110.1 Submit

422

X

LAN

0	
IP Assignment	Static IP Address
* IP Address	Example: 192.168.23.2
* Subnet Mask	Example: 255.255.255.0
* Gateway	Example: 192.168.1.1
* DNS Server	Example: 114.114.114.114.
	Submit

Note:

After the IP address and subnet mask are changed, the device web page may not be accessed. You need to enter a new IP address in the browser address bar and ensure that the IP addresses of the management computer and the device are in the same network segment. If they are not in the same network segment, reconfigure the IP address of the management computer.

4.6.3.2 Setting the WDS SSID

Choose Overview > WDS Group Info > NVR (AP)/Camera (CPE).

To set the WDS SSID for one bridge, click, and select WDS from the drop-down list.

In AP mode, it supports customize the WDS SSID and chose the SSID from ESTs in the scan list as the WDS SSID. You are allowed to configure the 5G channel, channel width, transmit power and distance for this WDS SSID.

◇VCR (AP)



ct a WDS SSID.)
ct a WDS SSID.)
Re-scan
INC-SCOT
I CPE RSSI
-39

In CPE mode, the local channel and channel width are consistent with the peer channel and channel width. You are only allowed to configure the transmit power and distance.

WDS		\times
Channel & 1	Transmit Power	
Channel	40	
Channel Width	40MHz In CPE mode, the local channel and channel width are consistent	
	with the peer channel and channel width.	
Transmit Power	Auto	
Distance	1KM ~	
	Save	

4.6.3.3 Point To Multiple Point (PTMP)

EST310 and EST350 both support PTMP feature. For EST310, one AP(VCR) supports bridging with up to 5 CPEs, For EST350, one AP(VCR) supports bridging with up to 3 CPEs.

The following is the guidance for configuring PTMP.

a) AP(VCR)

For AP(VCR) side, it needs to confirm the Country/Region and device mode, then create the WDS SSID and customize the name of it, as shown in the following pictures:



Ruijie	[≜] Rcycc =	English VCR (AP) & Pair Again Dog Out
C Overview	Alarm WDS SSID ×	~
lan 🎯	Configuration is uninitialized.	
🕤 Wireless 🔗 👻	Admin Password Not Set: 1. Click here to WDS SSID:	
😵 Diagnostics 🔗	Time Zone: (GMT+8:00)Asia/Shanghai	
💥 System Tools	Previous	
	WDS Group Info WDS Groups : 1	X Password ● X IP Allocation ● X SSID ●
	WDS Group1	
	AP: 1. (Ruijle) Channel auto	
	CPE: 0 . (Online: 0 , Offline: 0) WD3 SSID :@Rule=wds-c5a5	
	Strong Signal: — Medium Signal: — Poor Signal: —	
	○ VCR (AP)	⇔ Camera (CPE)
	Ruijie 2.	S
	MAC: 30:0d 9avd8 c5/a5	
Ruíjie	Reyce = ● Operation succeeded.	English 🗸 VCR (AP) 🖄 Pair Again 🖘 Log Out
C Overview		
	0 Alarm	
LAN	Alarm Setup X	
LAN Wireless	Adams Setup × Setup × Admin Password Not Set: 1. Click here to, WDS SSID: ruijietest11111	
③ LAN ② Wireless · ·	Alarm Setup X Configuration is uninitialized, Hostname Not Sot 1. Admin Password Not Set: 1. Click here to Country/Region: China (Chi) Provides Provides Description	
 ELAN Wireless × Diagnostics × 	Alarm Setup X Configuration is uninitialized. Hostname Not Set: 1: ● Admin Password Not Set: 1: Click here to Country/Region: China (CN) ● Time Zone: (GMT+8:00)Asia/Shanghai ● Previous	
 Oragnostics Oragnostics System Tools 	Configuration is uninitialized. Hostname Not Set: 1. Admin Password Not Set: 1. Country/Region: China (CN) Time Zone: (GMT+8:00)Asia/Shanghai WDS Sroup Info WDS Groups : 1	× Password ● ★ IP Allocation ● ★ SSID ●
C Wireless C Wireless C Diagnostics C System Tools	Alarm Configuration is uninitialized. Hosimamo Not Set: 1. Click here to Country/Region: China (CN) @ Time Zone: (GMT+8:00)Asia/Shanghai @ Previous Osurjut WDS Group Info WDS Groups : 1 VDS Group Info WDS Groups : 1	X Password • [X IP Allocation •] X SSID •
CAN Current Controls Curren	Alarm Configuration is uninitialized, Hostname Not Sot 1. Admin Password Not Set: 1. Click here to Country/Region: China (CN) Time Zone: (GMT+8:00)Asia/Shanghai Previous VDS Group Info WDS Groups : 1 WDS Group Info WDS Groups : 1 Channel: auto	X Password • X IP Allocation • X SSID •
 ⊕ LAN ⊕ Wireless × ⊕ Diagnostics × ≫ System Tools × 	Alarm Configuration is uninitialized. Hostname Not Set: 1	X Password • X IP Allocation • X SSID •
 Oragnostics Oragnostics System Tools 	 Alarm Configuration is uninitialized. Hostname Not Sot: 1. ● Admin Password Not Sot: 1. ○lick here to Country/Region: China (CN) ● Time Zone: (GMT-8:00)Asia/Shanghai ● WDS SSID: ruijietest11111 Previous Secure WDS Group Info WDS Groups : 1 	× Password ● ≫ IP Allocation ● ≫ SSID ●
 Oragnostics Oragnostics System Tools 	Alarm Configuration is uninitialized. Hostname Not Set: 1. ● Admin Password Not Set: 1. Olick here to Country/Region: China (CN) ● Time Zone: (GMT+8:00/Asia/Shanghai) ● Previous VDS Group Info WDS Groups : 1 WDS Coupt Info WDS Groups : 1 WDS Coupt Info WDS Groups : 1 WDS SID: @Rupe-wds-cba6 CPE: 0. (Online: 0., Offline: 0) WDS SID: @Rupe-wds-cba6 CVER (AP)	X Password • X IP Allocation • X SSID •
 Or LAN Or Wireless ✓ Or Diagnostics ✓ System Tools ✓ 	Alarm Configuration is uninitialized, Hostname Not Sot: 1 Click here to Country/Region: China (CN) ● Time Zone: (GMT+8:00/Asia/Shanghai ● Previous O Super WDS Group Info WDS Groups : 1 WUSS Croup Info WDS Groups : 1 WUSS Croup Info WDS Groups : 1 VUSS Group Info WDS Groups : 1 VUSS Croup Info WDS Groups : 1 VUSS Croup Info WDS Groups : 1 VUSS Group Info WDS Group In	× Password ● × IP Alocation ● × SSD ●

b) CPE

For CPE side, apart from confirming the Country/Region and device mode, it needs to scan the WDS SSID and chose it. The configuration steps of another CPEs in the same WDS group are the same.

Ruijie	≣Rcycc =		Engl	sh 🧹 Can	nera (CPE) 🖉 Pair Aga	in 🔹 Log Out
☆ Overview	• Alarm	WDC COID X				
@ LAN	Configuration is uninitialized.	WDS SSID				
😪 Wireless 🔍 👻	Hostname Not Set: 1 . Admin Password Not Set: 1 . Click ber Country/Region: China (CN)	* WDS SSID: WDS SSID Scan	WDS SSID List (Cl	ick to select a	SSID.) ×	
🏷 Diagnostics 🗠	Time Zone: (GMT+8:00)Asia/Shangha	Previous Next	WDS SSID	RSSI	SN	
💥 System Tools 🗠	WDS Group Info WDS Groups : 1		ruijielest11111	19	CAP91AR015575	id 🖌
	WDS Croup1 AP: 0 . (~) CPE: 1 . (Online: 0 , Offline: 1)	Channel : W0 \$ \$\$0	0			~
	୦ VCR (AP)	Strong Signal: — Medium Signal: —	P.			
	S					@~ 3:a6

Ruíjie	Rcycc =	Operation succeeded.	English 🗸 VCR (AP) 🖉 Pair Again 🕁 Log Out
☆ Overview	Alarm	Setup ×	
lan 💮	Configuration is uninitialized. Hostname Not Set: <u>1</u> . •	WDS SSID - miliatest11111	
S Wireless	Admin Password Not Set: 1 . Click here to a Country/Region: China (CN) Time Zone: (GMT+8:00)Asia/Shannhai	Previous * Sulymit	
System Tools			
	WDS Group Info WDS Groups : 1		X Password I X IP Allocation I X SSID I
	WDS Group1 AP: 1 . (Ruijie) Chann	el auto	
	CPE; 0 . (Online: 0 , Offline: 0) WDS S	SID -@Ruijie-wds-c5a5	
	⊘ VCR (AP)	Strong Signal: — Medium Signal: — Poor	Signal: —
	Ruijie <u>2</u> ©~ MAC: 30.0d/9e/d6:c5:a5 <		S

After all CPEs have connected to the WDS SSID, you can see the topology of bridge in the eWeb.

Ruijie	「斎Rcycc ☲ English ∨ Car	mera (CPE) 🖉 Pai
C Overview	WDS Group Info WDS Groups : 1 X Password	X IP Allocation @
🛞 LAN	WDS Group1	
🗟 Wireless 🗸 🗸	AP: 1. (Ruijie) Channel .44 Latency @ Fluent(1) Jitter(0) Freeze(1) CPE: 2. (Online: 2., Offline: 0) WDS SSID :ruijelest11111 Interference @: Good(2) Medium(0) Poor(0)	
𝔅 Diagnostics ↔	Bandwidth @. Good(2) Medium(0) Poor(0) RSSI @: Good(2) Medium(0) Poor(0)	
💥 System Tools 🗠	Strong Signal: → Medium Signal: → Poor Signal: → 4.28Kbps RSSI-24db Latency - Rate → 400Mbps Flow → 4.28Kbps Uptme 08Sac ◇ Cal	mera (CPE)
	Ruijie ℓ (a) ~ MAC: 30:0d:9e:d8:c5:a5 Latency 2nc 200Mbps Flow → 9.00kbps RSSI-23db (a) ~ ESTRID IP: 10.44.77.254 Online Color Col	Ruijie & MAC: 30:0d:3 IP: 10.44.77.
		Ruijie 2 MAC: 30:0d:9

4.6.4 LAN

If a DHCP server is deployed in the network, you are advised to set Internet to DHCP. If no DHCP server is deployed, set Internet to Static IP Address, set IP Address, Subnet Mask, Gateway, and DNS Server, and click **Save**.

4.6.5 Wireless

4.6.5.1 WDS

This page allows you to configure the WDS SSID in the local device. The device detects the surrounding wireless environment and selects the appropriate configuration upon power-on. However, network stalling caused by wireless environment changes cannot be avoided. You can also analyze the wireless environment around the bridge and manually select appropriate parameters.

Submit

Before configuration, you can check the interference in the current environment in the following way to find the optimal channel.

Choose **Wireless> WDS> Channel & Transmit Power**. Click Interference to check the interference of current channels. The channel with the smallest interference is the optimum.

Configuration Reyee Cookbook (i) WDS--VCR (AP) Configure WDS pa ☆ Overview eters EAN WDS So Wireless * WDS SSID @Ruijie-wds-642c Scan 습 WDS Analysis (Current Channel: 60) C Refresh 0 RFI Strength Save 1000 1 Region & Diagnostics 800 **Channel & Transmit Power** 💥 System Tools 5G Channel 60 (5.3Ghz) E Interference Channel Width 40MHz Transmit Power Auto RFI Co Distance 1KM Tip : Click to select a channe

The camera mode does not support independent channel settings. After the channel at the NVR end is adjusted, the camera end automatically changes its channel to be the same as the NVR end.

Channel & Trans	mit Power		
5G Channel	56 (5.28Ghz)	~	₿ Interference
Channel Width	40MHz	~	
	In CPE mode, the loc	al channel	and channel width are consistent with the peer channel and channel width.
Transmit Power	Auto	~	
Distance	1KM	~	
	Save		

Note:

The available channel is related to the country/region code. Select the local country or region.

4.6.5.2 Region

The change of Country/region code takes effect on all devices in the entire network, that is, all bridges on the Overview page. Therefore, before changing the country/region code, confirm that the target device is in the current network and the WDS link works well.

Choose the target country/region from the drop-down list, and click Save.

Configuration Reyee Cookbook Region After you change the region, all WDS links will be off. If the specified region does not support the channel settings, the auto channel will be used instead. 鈴 LAN Country/Region S Wireless Country/Region 2 WDS China (CN) ☆ Region United States (US) V Diagnostics Japan (JP) Russia (RU) 💥 System Tools India (IN) Malaysia (MY) Singapore (SG) Republic of Korea (KR) ☆ Overview Region iAfter you change the region, all WDS links will be off. If the specified region does not support the channel settings, the auto channel will be used instead. Số3 LAN Country/Region So Wireless Country/Region China (CN) ☆ WDS Save 1 Region V Diagnostics 💥 System Tools

Note:

After the country/region code is changed, the Wi-Fi network will restart, and the NVR and camera will be reconnected after the Wi-Fi network is restarted. The current channel may be switched to Auto because it is not supported by the country/region. Therefore, exercise caution when performing this operation.

4.6.6 Diagnostics

When you select the ping tool, you can enter the IP address or URL and click Start to test the connectivity between the router and the IP address or URL. The message "Ping failed" indicates that the router cannot reach the IP address or URL.

The Traceroute tool displays the network path to a specific IP address or URL.

The DNS Lookup tool displays the DNS server address used to resolve a URL.

	<i>i</i> Network Tools		
ô LAN	Tool	Ping Traceroute	O DNS Lookup
🙃 Wireless 🗸 🗸	* IP Address/Domain	8.8.8.8	\odot
Se Diagnostics	* Ping Count	4	
☆ Network Tools			
☆ Fault Collection	* Packet Size	64	
🔀 System Tools		Start	Stop
	Result		

Choose Diagnostics> Fault Collection.

Click Start to collect fault information and compress it into a file for engineers to identify fault.

	Fault Collection Compress the configuration into a file for engineers to identify fault.
င့်} LAN	Start
ि Wireless ∨	
Ve Diagnostics	
☆ Network Tools	
☆ Fault Collection	
🔀 System Tools 🛛 🗸	

4.6.7 System tools

4.6.7.1 Time

Choose **System Tools> Time**. You can view the current system time. If the time is incorrect, check and select the local time zone. If the time zone is correct but time is still incorrect, click Edit to manually set the time. In addition, the bridge supports Network Time Protocol (NTP) servers. By default, multiple servers serve as the backup of each other. You can add or delete local servers as required.

Reyee Cookboo	k						Configuration
		<i>i</i> Time Configure and view	time (The device has no RTC m	odule. The t	ime settings will not be	saved upon reboot).	
දියි LAN		Current Time	2022-04-14 14:41:32 Edit				
Reference wireless	~	* Time Zone	(GMT+8:00)Asia/Shanghai	~			
𝔥 Diagnostics	~	* NTP Server	0.cn.pool.ntp.org	Add			
System Tools	~		1.cn.pool.ntp.org	Delete			
☆ Management	t		cn.pool.ntp.org	Delete			
☆ Update			pool.ntp.org	Delete			
☆ Reboot			asia.pool.ntp.org	Delete			
			europe.pool.ntp.org	Delete			
		(rdate.darkorb.net	Delete			
			Save				

4.6.7.2 Management

Choose System Tools> Management> Backup & Import.

Configure backup: Click **Backup** to download a configuration file locally. Configure import: Click **Browse**, select a configuration file backup on the local PC, and click Import to import the configuration file. The device will restart.

	Backup & Import Reset Session Timeout
င့်} LAN	Backup & Import
	It is recommended to choose Reset before importing the setup. The device will be rebooted automatically later.
♥ Diagnostics	Backup Setup
🔀 System Tools	Backup Setup Backup
☆ Time	Import Setup
☆ Management	File Path backup-TestVCR-EST310-20 Browse Import
☆ Update	
☆ Reboot	

Choose System Tools> Management> Reset.

Click **Reset** to restore factory settings.

	Backup & Import Reset Session Timeout
හි LAN	 Reset Resetting the device will clear the current configuration. If you want to keep the configuration, please Export Setup first.
	Reset
𝔥 Diagnostics →	
🔀 System Tools 🔷	
ු Time	
☆ Management	
☆ Update	
☆ Reboot	

Choose **System Tools> Management> Session Timeout**. If no operation is performed on the page within a period of time, the session will be down. When you need to perform operations again, enter the password to open the configuration page. The default timeout duration is 3600 seconds, that is, 1 hour.

	Backup & Import Reset Session Timeout
င်္သိ LAN	i Session Timeout
So Wireless	* Session Timeout 3600 Sec
Ve Diagnostics	Save
💥 System Tools	
☆ Time	
☆ Management	
☆ Update	
☆ Reboot	

4.5.6.3 Update

Choose System Tools> Update> Online Update.

If there a new version available, you can click it for updating

	Online Update Local Update AI Devices
LAN	Online Update Online update will keep the current configuration. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after update.
	Current Version AP_3.0(1)B2P28,Release(07220919) (Your version is the latest.)
lashift > Diagnostics	
💥 System Tools	
습 Time	
☆ Management	
☆ Reboot	

Note:

After being updated, the device will reboot. Therefore, exercise caution when performing this operation. If no version updating is detected or online update cannot be performed, check whether the bridge is connected to the Internet.

Choose System Tools> Update> Local Update.

You can view the current software version, hardware version and device model. If you want to update the device with the configuration retained, check **Keep Setup.** Click **Browse**, select an update package on the local PC, and click Upload to upload the file. The device will be updated.

☆ Overview	Online Update Local Update Update All Devices
ర్టి LAN	Local Update Please do not refresh the page or close the browser.
😚 Wireless 🗸 🗸	Model EST310
♡ Diagnostics	Version AP 3 0(1)B2P28 Release(07220919) 2 00
💥 System Tools	
☆ Time	Keep Setup 🧧 (If the target version is much later than the current version, it is recommended not to keep the setup.
☆ Management	Update File Ruijie RG-EST310 V2 series Browse Upload
☆ Update	
☆ Reboot	

Choose System Tools> Update> Update All Devices.

You can view the current software version, hardware version and device model. You are advised to update all devices with configuration data retained. Click **Browse**, select an update package on the local PC, and click **Upload** to upload the file. In the pop-up page, click **Details** to check the target update package and devices. Click Update to start updating all devices.

Reyee Cookbook				(Configuration
	Online Update	Local Update	Update All Devices		
දිවූ LAN	<i>i</i> Update	e All Devices all devices in the netwo	ork. Please do not refresh the	page or close the browser.	
⊕ Wireless ✓	Model	EST310			
🎖 Diagnostics	Version	AP_3.0(1)B2P28,Rel	ease(07220919) 2.00		
💥 System Tools					
☆ Time	Keep Setup	Uneditable)			
☆ Management	Update File	Ruijie RG-EST310	V2 series Browse	Upload	
☆ Update					
☆ Reboot					

4.5.6.4 Reboot

Choose System Tools> Reboot.

You are allowed to restart the local device, please keep the device powering on.

☐ Overview		i	Reboot Please ke	eep the de	evice powe	ered on dur	ing reboot.	
င့်္ဘိ LAN			Reb	oot				
🙃 Wireless	~							
✤ Diagnostics	\sim							
🔀 System Tools	^							
☆ Time								
☆ Management								
☆ Update								
☆ Reboot								

5 Advanced Solution Guide

5.1 Reyee Flow Control Solution

5.1.1 Application Scenario

Flow Control is used for setting the rate limitations of download and upload for the clients. With the Flow Control configured, we can protect the network bandwidth from being occupied too much by some of the clients.

5.1.2 Configuration Case

Requirement

Limiting EG egress total bandwidth to 100Mbps and each user rate of VLAN 6 network segment to 1Mbps.

Network Topology



Network Description:

- EG works as a DHCP server to assign IP addresses to users and AP & switch devices.
- The AP & switch devices obtain the IP address 192.168.110.0/24 in the VLAN1 network segment for Internet access.
- The users obtain the IP address 192.168.6.0/24 in the VLAN6 network segment for Internet access.

Configuration Steps

• basic network configuration

• Enable Smart Flow Control function and configure the custom policy

1. Configure basic network configuration

Step 1: Click **Router** -> **Basics** -> **LAN** -> **LAN Settings** -> **Add**, Configure LAN Settings and DHCP pool of VLAN1 and VLAN6 network segment on the EG.

Ruíjie #Rcycc	test123 > EG105GW (Master) 0 Er	nglish ~ 🔿 Ruijie Cloud 🖁	쎯Download App 🛭 👌 Network Setup	@ Network Check	<u>∦</u> Warn ⊖ Log Out
& Overview	Hostname: EG105GW SN: H1PH745119402	IP: 172.26.5.237			
Online Clients	• EG105GW MAC: 30:0D:9E:E7:E9:15				() Reboot
A Router	Overview Basics \checkmark Security \checkmark Behavior \checkmark VPN \checkmark Advanced \checkmark Dia	agnostics ~ System ~			
ି Wireless 🗸	LAN Settings DHCP Clients Static IP Addresses DHCP Option DN	IS Proxy			
Switches	1 LAN Settings				0
$\mathcal{C}^{-0-}_{\mathcal{C}^{0-}}$ Network \checkmark	LAN Settings			+ Add	Delete Selected
	Up to 8 entries can be added.				
	IP Subnet Mask VLAN ID Remark	DHCP Server	Start IP Count	Lease Time(Min)	Action
	92.168.110.1 255.255.255.0 Default VLAN -	Enabled 19	92.168.110.1 220	30	Edit Delete
					(e Ai
«Collapse					

-	
* IP	192.168.110.1
* Subnet Mask	255.255.255.0
Remark	Remark
* MAC	30:0d:9e:e7:e9:15
DHCP Server	
* Start	192.168.110.1
* IP Count	220
Lease Time(Min)	30
DNS Server	192.168.110.1 🕖

	C. CONTRACT
Cancel	OK

 \times

 \times

* IP	192.168.6.1
* Subnet Mask	255.255.255.0
* VLAN ID	6
Remark	Remark
* MAC	30:0D:9E:0B:7D:05
DHCP Server	
* Start	192.168.6.1
* IP Count	254
* Lease Time(Min)	30

Ruijie IRcycc	test123 > EG105G	w Mana i O		Englis	h ∼ 🔿 Iluijie Clou	d 🔠 Download App	Network Setup	Network Check	#Wen ⊜tog O
& Overview ⊗ Online Clients	• EG105GW	Hostmanne: BG105GW MAC: 30:00:9E:87	5% H11 19:15	94745119402	IP: 172.26.5.2	17			(D Reboot
P Wireless	LAN Settings	DHCP Clients Static IP A	or - VPN - Adv	Option DNS Pro	ay				
Switches	🕧 LAN Settin	ngs							0
Network	LAN Setting	15 s can be added.						+ Add	Delete Selected
	(D)	P Subnet Mask	VLAN ID	Remark	DHCP Server	Start	IP Count.	Lease Time(Min)	Action
	192.168	8.110.1 255.255.255.0	Default VLAN		Enabled	192.168.110.1	220	30	EGR Delete
	0 192.16	68.6.1 255.255.255.0	6		Enabled	192.168.6.1	254	50	Edit Delete

A Note:

Default VLAN 1 network is set to 192.168.110.0/24 network segment.

Step 2: Click **Switches** -> **Manage** -> **Basic Settings** -> **VLAN Member** to create VLAN6 on the switch, and click **VLAN Settings** to set port2 and port9 which connect to AP and EG to trunk port and allow the VLAN1 and VLAN6 to pass through, then check the port settings on the device.

Ruíjie &Rcycc	test123 > EG105GW (Minister) Ø	English ~	പ്പ് System Info	Basic Settings	🛆 Upgrade
2 Oursieu			Loop Protection Ø		•
5- Overview	🕖 Switch List		Port Isolation ()		
Online Clients	Switch Liet	[]IP/AA	Port Settings		
A Router	Switch List		Port Settings ()		>
♥Wireless	Action Hostname IP MAC MAC	Status 😄	Port Mirroring Ø		>
RSwitches	Manage ES209GC-P & 192.168.110.3 C0:88:E6:E6:8D:7	7 Online	Static MAC Ø		>
Sincito			Search by MAC		· · · · ·
Network	Manage NBS5200 192.168.110.74 54:16:51:76:EA:80	Offline	VLAN Settings		~
	Manage N853100 192.168.110.2 C0:88:E6:9A:43:01	D Offline		6 Ad	d
				Delete Selected	
	< 1 > 10/page ~		No.	VLAN ID	Action
		_	1	1	Delete
			MAN CANA		
			VLAN Settings		,
			Rate Limiting		>
≪Collapse					~
Rujje		English 🗸 🛆 I	옹 System Info	Basic Settings	Upgrade
- Overview			Loop Protection Ø		^
2 CONTINUE	Switch List		Port Isolation ()		
Online Clients	Switch List	IP/M	Port Settings		
Router	1		Port Settings ()		>
♥Wireless	□ Action Hostname	Status 💠	Port Mirroring		<u> </u>
Switches	□ Manage ES209GC-P & 192.168.110.3 C0:88:E6:E6:8D:7	7 Online	Static MAC 0		
*** Mahanala			VI AN Settings		
:a- Network	Manage N855200 192.168.110.74 54:16:51:76:EA:8	F Offline	VLAN Member Ø		>
	Manage N853100 192.168.110.2 C0:88:E6:9A:43:01	D Offline	VLAN Settings		~
		_	* Port Port 2 × Port 9 × >	Type Trunk V	
	< 1 > 10/page >		Permit All ×	* Native VLAN 1 V	
		_		Save	_
			Port VLAN Type	Permit VLAN Native Vlan	Access Vlan
			1 Access		1
			2 Access		1
«Collapse			2 Arear		1
Ruíjie I & Reyce		English 🗸 🛆 🛛	器 System Info	Basic Settings	Upgrade
A Overview			VLAN Settings		``````````````````````````````````````
@ Outline Officiale	Switch List		VLAN Settings		~
© Online Clients	Switch List	IP/M	* Port Select	▼ Type Access ∨	
Acouter 📇			Permit Select	* Access Select V	
	Action Hostname Hostname MAC MAC	Status \$		Save	
Switches	□ Manage ES209GC-P & 192.168.110.3 C0:88:E6:E6:8D:7	7 Online	Port VLAN Type	Permit VLAN Native Vlan	Access Vlan
	Manara NESSON 103 160 110 74 64 16 1 176 F.A.	E Offling	1 Access		1
	manage ws5200 192.108.110.74 54:10.5170:EA3	Offline	2 Trunk	1,6 1	
	Manage N853100 192.168.110.2 C0:88:E6:9A:43:00	D Offline	3 Access		1
			4 Access		1
	1 > 10/page >		5 Accord		· · ·
			QoS Settings		
			Storm Control		
			PoF Settings		~
			PoE Settings		>
< Collapse					Ý

Ruíjie &Rcycc						English ~F	윩 Syste	em Info	Basic Set	tings	🛆 Upgrad	le
옹 Overview							VLAN Settir	gs ber Ø				>
Online Clients	Swi	itch List					VLAN Settin	gs				~
Router	Switch	List				IP/M/	* Port	Select	*	Type Access \vee		
♥Wireless		Action	Hostname ‡	IP ‡	MAC ‡	Status ≑	Permit	Select	* A	ccess Select ~		
Switches		Manage	ES209GC-P 🖉	192.168.110.3	C0:B8:E6:E6:8D:77	Online			Save			- I.
Network				102 169 110 74	54-16-51-76-EA-9E		Port 5	Access	Permit VLAN	Native Vlan	Access Vian	^
				192.100.110.74	54.10.51.70.EA.OF		6	Access			1	
				192.168.110.2	C0:B8:E6:9A:43:0D	Offline	8	Access			1	11
			10/nage ~				9	Trunk	1,6	1		~
			ro, page				QoS Setting	5				- 1
							Rate Limitin	9				>
							Storm Cont	ol				>
							PoE Setting	5				
Collapse							POE Setting					~

Step 3: Click Wireless-> Wi-Fi -> Wi-Fi Settings, Configure SSID named Reyee_test and set VLAN6 to this ssid.

Ruijie Reyce	test123 > EG105GW ()	•	English ~	⊖Ruijie Cloud 🔡 De	writeed App - @ Network	Setup 🚳 Network Check	mWarn E	∋tog Out
A Overview ⊗Online Clients	W-Fi Settings Gu	est Wi-Fi Wi-Fi List Healthy I	Mode					
Router	Tip: Changing co	onfiguration requires a reboot and clients	will be reconnected.					0
♥ Wireless -	Wi-Fi Settings	Device Group: Detault						
APs	* SSID	Rayee_test						
Wi-Fi	Band	2.4G + 5G						
Clients	Security	Open						
Blacklist/Whitelist		Cultapie						
Radio Frequency	Wireless Schedule	All Time						
LED		Per trac						
Network Optimization	YLAN	6						
/ Switches	Hide SSID	(The SSID is hidden and must	be manually entered.)					
	AP isolation	(The client joining this Wi-Fi n	ertwork will be isolated.)					1
<collapse< th=""><th>Band Steeting</th><th>The SG-amounted client will</th><th>amess 56 partio preferentially)</th><th></th><th></th><th></th><th></th><th></th></collapse<>	Band Steeting	The SG-amounted client will	amess 56 partio preferentially)					
Ruijie IRcycc	test123 > EG105GW (• استعمال	English ~	⊖lluije Cloud MDc	winkoad App 🛛 🐣 Network	Setup @Network Check	mWen E	∋log Ou
A Overview								
Conline Clients	Wi-Fi Settings Gu	est WI-Fi Wi-Fi List Healthy	Mode					
-Router	🕜 Tip: Changing is	ordiguration requires a relision and clients	will be recurrencied.					0
♥ Wireless	Wi-Fi List Devic	e Group: Default -					+	Add
APs	Up to 8 SSIDs can b	be added.						
Wi-Fi	SSID	Band	Security	Hidden	VLA	NID	Action	
Clients	Revee_test	2.4G + 5G	IOPEN	No		i I	dit Delete	
Blacklist/Whitelist	Automati ADD-1	2.4G + 5G	WPA. WPA2-PSK	Ves		i E	dit Delete	
Radio Frequency	and the second second		-					
LAN PORS	C. C	2,46 + 56	OPEN	NO	Detaul	L VLAN	at Delete	
Network Optimization	Gaunty MR.+	2.4G + 5G	WPA, WPA2-PSK	Ves		7 1	dit Delete	
- Switches								
문 Switches 좋 Network -								-



Step 1: Choose Router \rightarrow Advanced \rightarrow Flow Control and enable Smart flow control feature.

Overview Basics ~ Security ~ Behavior ~ VPN ~	Advanced ^ Diagnostics Y System Y	
Smoot Flow Control	Routing	
Smart Flow Control	Flow Control	
Smart Flow Control Adjust the bandwidth allocated to each user according to the	PPPoE Server	
 Adjust the bandwidth allocated to each user according to the t 	Authentication	
Enable If you want to test the WAN rat	Session Limit ntrol first.	
	Port Mapping	
WAN Bandwidth * Up 100 Mbps * Down	Dynamic DNS	
Save	Local DNS	
	Other Settings	

Step 2: Fill in the uplink and downlink WAN bandwidth as 100Mbps and Save the configuration.

Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×	
Smart Flow Control Custom Policy	
Smart Flow Control Adjust the bandwidth allocated to each user according to the user count.	0
Enable If you want to test the WAN rate, please disable smart flow control first.	
WAN Bandwidth * Up 100 Mbps * Down 100 Mbps	
Save	

Step 3: After step2 is being done, Custom Policy will be displayed. Click Add to add policy.

Smart	Flow Control	Custom Policy							
0	Custom Policy Allocate bandwidth	to the specified IP a	address or range. The p	riority is sorted as follows: Cus	stom Policy > Smart Flow Control.				?
Poli	cy List							+ Add	+ Delete Selected
Up	to 30 entries can b	e added.							
	Policy Name	IP/IP Range	Bandwidth Type	Uplink Rate	Downlink Rate	Interface	Status	Effective State	Action
					No Data				

Step 4: Set Policy Name, IP range, Bandwidth Type, Rate, etc.

Edit				×			
* Policy Name	test						
* IP/IP Range	192.168.6.2-1	92.168.6.254					
Bandwidth Type	Independent		~				
Uplink Rate	* CIR 1000	* PIR	1000	Kbps			
Downlink Rate	* CIR 1000	* PIR	1000	Kbps			
Interface	WAN		~				
Status							
			Cancel	ОК			
Smart Flow Control	Policy						
Allocate bandwidth to the sp	ecified IP address or range. 1	he priority is sorted as foll	ows: Custom Policy > 3	Smart Flow Control.			0
Policy List						+ Add	+ Delete Selected
Up to 30 entries can be added.							
Policy Name IP/IP F	ange Bandwidth Type	Uplink Rate	Downlin	Rate Interface	Status	Effective State	Action
test 192.168	6.2-1 Independent 6.254	CIR 1000 Kbps PIR 1000 Kbps	CIR 1000 PIR 1000	Kbps WAN Kbps	Enable ⊘	Active	Edit Delete

Note:

Bandwidth Type:

1) Shared: Shared indicates that all IP addresses share with the total bandwidth.

2) Indenpended: Independent indicates that the rate limit is setted for per IP address.

CIR: CIR means committed information rate.

PIR: PIR means peak information rate.

Configuration Verification

Use Speed test tool to check that each user is limited up to 1Mbps.

SHARE 🥝	୭♥♥⋯	Result ID 129647	60759	U.,				0	RESL	JLTS	3	SE	TTINGS
	● PING ms	© downloai	D Mbj	ps			٢		.9	1	lbps		
GO	Connection Multi China Unio Fuzhou Change Se Ochina Tele 120.35.11.19	ons com FuJian erver ecom 95	REC 0 Not a	HO OMM 1 at all	W LI IEND 2 likel	KEL CHI 3	Y IS I INA T COL	IT TH TELE LEAC	IAT Y COM GUE?	7 7 Ext	NOU A FR 8 trem	ILD IENC 9	O OR 10 .ikely

5.2 Reyee Cloud Authentication Solution

5.2.1 Working Principle

Cloud authentication allows you to control users accessing to the wireless network. The configuration will be synchronized from Cloud to local EG device. In portal authentication, all the client's HTTP requests will be redirected to an authentication page first. The clients are required to authenticate, payment, accept the end-user license agreement, acceptable use policy, survey completion, or other valid credentials, then they can visit the internet after the authentication succeeded.

5.2.2 Application Scenario

Portal authentication, also known as Web authentication, is usually deployed in a guest-access network (like a hotel or a coffee shop) to control the client's internet access.

5.2.3 Configuration Case

Requirement

Users are required to authenticate first before allowed to access the Internet. Reyee AP can't support cloud authentication, need Reyee EG to do that.

Network Topology



Network Description:

- EG works as a DHCP server to assign IP addresses to users and AP& switch devices
- The AP& switch devices obtain the IP address 192.168.110.0/24 in the VLAN1 network segment for Internet access
- The users obtain the IP address 192.168.6.0/24 in the VLAN6 network segment for Internet access
- The Ruijie Cloud work as platform to manage and monitor devices and clients status and provide captive authentication for clients.

Configuration Steps

- Configure basic network
- Configure cloud authentication
- 1. Configure basic network

Step 1: Click **Router** -> **Basics** -> **LAN** -> **LAN** Settings -> Add, Configure LAN Settings and DHCP pool of VLAN1 and VLAN6 network segment on the EG.

Ruijie	test123 > EG105GW (Maxter) 0	English 🗸 🕜 Ruijie Clou	d _ 鼹 Download App	Network Setup	@Network Check	<u>⊯</u> Warn 🕞 Log O	out
Solution Clients	Booter Hostname: EG105GW SN: H1PH745119 • EG105GW MAC: 30:0D:9EE7:E9:15 SN: H1PH745119	402 IP: 172.26.5.2	37			(U) Reboot	
A Router	Overview Basics > Security > Behavior > VPN > Advanced >	Diagnostics ~ System ~					
ି Wireless	LAN Settings DHCP Clients Static IP Addresses DHCP Option	DNS Proxy					
Switches	() LAN Settings					0	
-a-Network	LAN Settings				+ Add []	Delete Selected	
	Up to 8 entries can be added.						
	IP Subnet Mask VLAN ID Rer	nark DHCP Server	Start	IP Count	Lease Time(Min)	Action	
	92.168.110.1 255.255.255.0 Default VLAN	Enabled	192.168.110.1	220	30	Edit Delete	
							6.4
«Collapse							

Edit

 \times

* IP	192.168.110.1	
* Subnet Mask	255.255.255.0	
Remark	Remark	
* MAC	30:0d:9e:e7:e9:15	
DHCP Server		
* Start	192.168.110.1	
* IP Count	220	
ase Time(Min)	30	
DNS Server	192.168.110.1 🕖	

Cancel	OK

Edit		
	* IP	192.168.6.1
	* Subnet Mask	255.255.255.0
	* VLAN ID	6
	Remark	Remark
	* MAC	30:0D:9E:0B:7D:05
	DHCP Server	
	* Start	192.168.6.1
	* IP Count	254
*	Lease Time(Min)	30
	DNS Server	192.168.6.1 🕖

Ruijie IRcycc	test123 > EG105GW		Englis	h ∼ Aluijie Cloud	EDownload App	♦ Network Setup	Network Oteck	a Wen ⊜log Out
A Overview	Hostrame: E • EG105GW MAC: 3	G105GW SN: H1P1 D10D-9E47-E9:15	(745119402	ip: 172.26.5.2)	7			(O Reboot
2 Router	Overview Basics - Security -	Behavior - VPN - Adv	inced ~ Diagno	itics ~ System ~				
⊕Wireless ~	LAN Settings DHCP Clients	Static IP Addresses DHCP C	ption DNS Pr	oxy				
個 Switches	() LAN Settings							0
∑ Network =	LAN Settings						+ Add 1	Delete Selected
	Up to 8 entries can be added.							
	IP Subne	Mask VLAN ID	Remark	DHCP Server	Start	IP Count	Lease Time(Min)	Action
	192.168.110.1 255.25	5.255.0 Default VLAN		Enabled	192.168.110.1	220	30	EGR Defete
	192.168.6.1 255.25	5,255.0 6		Enabled	192.168.6.1	254	50	Edit Delete
								e
«Collapse								4

×

Note:

Default VLAN network is set to 192.168.110.0/24 network segment.

Step 2: Click **Switches -> Manage -> Basic Settings -> VLAN Member** to create VLAN6 on the switch, and click **VLAN Settings** to set port 2 and port 9 to trunk port which connect to AP and EG and allow VLAN 1 and VLAN 6 to pass through, then check the port settings on the device.

Advanced Solution Guide

Reyee Cookbook



Advanced Solution Guide

Reyee Cookbook

Ruíjie Rcycc						English ~	움 Syste	em Info	Basic Set	tings	🛆 Upgrad	le
² ₆ Overview		Switch List					VLAN Settin	gs Der Ø				>
Online Clients		Switch List				_	VLAN Settin	gs				~
Router	Swi	tch List				IP/M/	* Port	Select	*	Type Access \vee		
♥Wireless		Action	Hostname ≑	IP ¢	MAC \$	Status 💠	Permit	Select	* Ac	select V		
A Switches		Manage	ES209GC-P 🖉	192.168.110.3	C0:B8:E6:E6:8D:77	Online	Port	VLAN Type	Save Permit VLAN	Native Vlan	Access Vlan	o I
: 				192.168.110.74	54:16:51:76:EA:8E	Offline	5	Access	-		1	^
							6	Access			1	
				192.168.110.2	C0:B8:E6:9A:43:0D	Offline	7	Access			1	11
		1	10/page ~				9	Trunk	1,6	1		~
							QoS Setting	5				- 1
							Rate Limitin	g				>
							Storm Cont	ol				>
							PoE Settings					
Collapse							PoE Setting:					> 🗸

Step 3: Click Wireless -> Wi-Fi -> Wi-Fi Settings, configure a SSID named as Reyee test and set VLAN6 to this SSID.

Ruijie IRcycc	test123 > EG105GW (M			English ~	CRuijie Cloud	BEDownload App	Network Setup	Retwork Check	38 Warn	
Overview	W-Fi Settings	stWi-Fi Wi-Filar	lealthy Mode							
Online Clients		and an end of	and more							-
Router	Tip: Changing co	nfiguration requires a reboot an	d clients will be reconnecte	d.						0
Wireless	Wi-Fi Settings	Device Group: Detault								
APs	* SSID	Rayee_test								
Wi-fi	Band	2.4G + 5G								
Clients	Samith	Own								
Backlist/Whitelist	Security	Open								
ladio Frequency		Collapse								
AN Ports	Wireless Schedule	All Time								
ED	VLAN	6	-							
letwork Optimization										
witches	Hide SSID	(The SSID is hidden a	nd must be manually ent	ered)						
etwork -	AP Isolation	(The client joining the	s Wi-fi network will be is	olated.)						
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2. Configure cloud authentication

Step 1: Select **CONFIGURATION** -> **AUTHENTICATION** -> **Captive Portal** to open the Captive Portal page, and click **Add** to create a new portal template and edit the captive portal template.

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Note:

One-click Login: Login without username and password. Support to set the Access Duration and Access Times per day.

Voucher: Login with a random eight-digit password.

Account: Login with the account and password.

Step 2: Make sure the Reyee EG is online on Ruijie Cloud and click its SN in the list to enter the configure page

Ruijie	MONITORING CONFIG	BURATION MAINTI	ENANCE •								e o 9	© 0•
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Step 3: Click Cloud portal Auth to configure the authentication on Cloud

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Step 4: Enable Auth firstly, then set Auth IP Range 192.168.6.2-192.168.6.254 which need to authenticate and choose the portal template to be used. In the end, click **Save** to save all configurations.

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Note:

The EG, Switch and AP IP address needs to be excluded, otherwise the device will not be able to access the Internet.

Configuration Verification

1. Click **Router -> Advanced -> LAN -> Authentication -> Cloud Auth**, Check whether the configuration has been synchronized to EG.

Ruíjie l &Rcycc	test123 > EG105GW Ministerij 0 English ~ Ruijije Cloud 🎇 Download App 🚸 Network Setup @ Network Check 🚊 Warn 🕞 Log Out
욹Overview	Rote: Hostname: EG105GW SN: USE (17.40) (P: 172265237) • EG105GW MAC: 300D/9EE7/E9:15 Ø Reboot ^
Online Clients	Overview Basics × Security × Behavior × VPN × Advanced × Diagnostics × System ×
Router Wireless	Cloud Auth Whitelist Online Users
Switches	Ruijie Cloud supports voucher authentication, local account authentication, SMS authentication and one-click authentication. Please log into Ruijie Cloud to enable authentication. View If the IP address of the EAP device is in the authentication IP range, please choose Whitelist to add the EAP MAC address to the MAC address whitelist.
-a- -a- Network	Authentication
	* Server Type Cloud Integration
	* Auth Server URL portal.ruijienetworks.com
	Client Escape 🖉 Enable
	* IP/IP Range 192.168.6.2-192.168.6.254 Add
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2. Users which in 192.168.6.2-192.168.6.254 IP range are required to authenticate before accessing the Internet.



5.3 Reyee Guest WiFi Solution

5.3.1 Working Principle

Create a single internet entrance by using guest WiFi. The devices you allowed to access guest WiFi can access the internet but can't access the home WiFi.

5.3.2 Application Scenario

Guest WiFi provides a secured Wi-Fi access for guests to share your home or office network. When someone visits your house, apartment, or workplace, you can enable the guest WiFi for them. You can set different access options for guest users, which is very effective to ensure the security and privacy of your main network.

5.3.3 Configuration Case

5.3.3.1 Configuration via EG's eWeb

Requirement

Configure Guest WiFi for the Guest users in the VLAN7 network segment and the users will cannot access the internal network in the VLAN6 network segment.

Network Topology



Network Description:

- EG works as a DHCP server to assign IP addresses to users and AP & switch devices
- The AP & switch devices obtain the IP address in the VLAN1 network segment for Internet access
- The internal users obtain the IP address in the VLAN6 network segment for Internet access and the guest user obtain the IP address in the VLAN7 network segment for Internet access

Configuration Steps

Step 1: Click Router -> Basics -> LAN -> LAN Settings -> Add, Configure LAN Settings and DHCP pool of VLAN 6 and VLAN 7 network segment on the EG

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Switches	() L	AN Settings									?
-a- -a-Network	LAN	Settings							+ Add) Delete Sele	cted
	Up to	8 entries can be a	added.								
		IP	Subnet Mask	VLAN ID	Remark	DHCP Server	Start	IP Count	Lease Time(Min)	Action	
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		192.168.1.1	255.255.255.0	2	-	Enabled	192.168.1.1	254	30	Edit Dele	rte
«Collapse											

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* IP	192.168.6.1
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* VLAN ID	6
Remark	Remark
* MAC	30:0D:9E:0B:7D:05
DHCP Server	
* Start	192.168.6.1
* IP Count	254
Lease Time(Min)	30
DNS Server	192,168,6,1 0

Add

12	
* IP	192.168.7.1
* Subnet Mask	255.255.255.0
* VLAN ID	7
Remark	
* MAC	30:0D:9E:A0:54:4A
DHCP Server	
* Start	192.168.7.1
* IP Count	254
* Lease Time(Min)	30
DNS Server	192.168.7.1 🕡

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		192.168.1.1	255.255.255.0	2	æ	Enabled	192.168.1.1	254	30	Edit Delete
		192.168.6.1	255.255.255.0	6	-	Enabled	192.168.6.1	254	30	Edit Delete
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Step 2: Click **Switches -> Manage -> Basic Settings -> VLAN Member** to create VLAN 6 and VLAN 7 on the switch, and click **VLAN Settings** to set port 2 and port 7 to trunk port which connect to AP and EG and allow VLAN 1、VLAN 6 and VLAN 7 to pass through, then check the port settings on the device.

Advanced Solution Guide

Reyee Cookbook



66-	system Info	Basic Settings	Upgrade
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	System Info	Basic Settings	Upgrade
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Advanced Solution Guide

Reyee Cookbook

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Step 3: Click **Wireless-> Wi-Fi -> Guest WiFi, c**onfigure a Guest WiFi SSID named as Guest_WiFi_Reyee and set VLAN 7 to this SSID.

Ruíjie SRcycc	test123 > EG105GW (M	askar) 0		English \sim	☐ Ruijie Cloud	器Download App	会 Network Setup
品Overview	Wi-Fi Settings Gue	st Wi-Fi List He	althy Mode				
Online Clients							
A Router	<i>i</i> Tip: Changing co	nfiguration requires a reboot a	nd clients will be reconne	ected.			
	Guest Wi-Fi Dev	ice Group: Default v					
APs	Enable						
Wi-Fi	* SSID	Guest_WiFi_Reyee					
Clients							
Blacklist/Whitelist	Band	2.4G + 5G	~				
Radio Frequency	Security	WPA_WPA2-PSK	\sim				
LAN Ports	* Wi-Fi Password	•••••	2774				
LED		Collanse					
Network Optimization		compac					
E Switches	Wireless Schedule	Never Disable	~				
$^{-0-}_{-0-}$ Network	VLAN	7 (Guest_Wi-Fi)	\sim				
Guest_WiFi_Reyee

2.4G + 5G

Step 4: Click **Wireless** ->**Wi-Fi** ->**Wi-Fi** List ->**Add** configure the internal user SSID named as Internal_network_Reyee and set VLAN6 to this SSID and check the WiFi settings on the WiFi list.

uijie IRcycc						
Overview Online Clients	Wi-Fi Settings Guest Wi-Fi Y	Add		×		
Router	The changing coniglication to					
Windess o	Wi-Fi List Device Group: Det	The configuration	on will take effect after be	ing delivered to AP.		
NN	Up to # SSIDs can be added.	* SSID	Internal_network_Reyee			
W-F1	SSID	Band	2.4G + 5G		VLAN ID	Action
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aitches		VLAN	6 (internal_network)	× .		
Reduced .		Hide SSID	(The SSID is hidden	and must be manually		
			entered.)			
-Fi Settings Gu	uest Wi-Fi <u>Wi-Fi List</u> Healthy	/ Mode				
i) Tip: Changing	configuration requires a reboot and cl	ients will be reconnecte	ed.			(
Vi-Fi List Devic	ce Group: Default v					+ Ac
Up to <mark>8</mark> SSIDs car	n be added.					
ID	Band	Securit	У	Hidden	VLAN ID	Action
.P2	2.4G + 5G	WPA_WPA	2-PSK	No	10	Edit Delete

Step 5: Click **Router -> Behavior -> Access Control**, configure ACL to block the traffic from guest user of vlan7 network 192.168.7.0/24 to internal user of VLAN 6 192.168.6.0/24 and apply to LAN interface on EG.

No

Edit Delete

WPA_WPA2-PSK

Ruíjie l &Rcycc	test123 > EG105GW (Maxim) 0	English ~ _ Ruijie Cloud 뛟Do	wnload App 🔮 Network Setup 🏽 🕘 N	letwork Check
응Overview	Hostname: EG105GW	02 IP- 172 26 5 237		
Online Clients	• EG105GW MAC: 30:0D:9E:E7:E9:15			(U) Reboot
@ Router	Overview Basics ~ Security ~ Behavior ~ VPN ~ Advanced ~	Diagnostics ~ System ~		
ି Wireless 🗸	ACL Access Control			
Switches	Configure ACL based on IP addres Time Management The policy cannot take effect on the wave part to proce use using among the miniple: Configure a deny ACL entry containing source IP address 192.16	internal users between an L2TP server and 8.1.0/24 and destination IP address 192.	d an L2TP client. The policy only takes effe 168.2.0/24. Device configured with IP add	ct in the LAN network. dress 192.168.1.x will fail to
$^{-\alpha-}_{-\alpha-}$ Network	access device 192.168.2.x. But device 192.168.2.x will be allowed to access de Tip: Configure one more deny ACL entry containing source IP address 192	rice 192.168.1.x. .168.2.0/24 and destination IP address 1	92.168.1.0/24. The two devices will be m	utually unreachable.
	ACL List		-	Add
	Up to 50 entries can be added.			
	Rule Control Type Wireles	s Schedule Interface	Effective State Remark	Action
	MAC 6e:36:05:e8:76:5f Block	WAN	Inactive 🜒 iphone	Edit Delete
	< 1 > 10/page ~			Total 1 🧖
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Ruíjie ®Rcycc	test123 > EG105GW	alas) ()			English ~	⊖Ruijie Cloue	d 쮋Downloa	ad App 🛛 🛔 Network Setur	D @ Network Cl	neck <u>a</u> KWarn ⊟Log.Ou
s ⁹ ₀ Overview	ACL List	Edit	Rule				×		+ Add	Delete Selected
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Router Wireless	0	Src	IP Address: Port	192.168.7.0/2	24	: 1-65535	St	ate Remark	Match Order	Action
Switches	Src IP Address 192.168.7.0/24 : .	Dest All Ports	IP Address: Port	192.168.6.0/2	24	: 1-65535		VI AN		
李Network ~	Dest IP Address 192.168.10.0/24 Protocol All Prot	: All Ports tocols	Protocol Type	All Protocols			-) •	10_Intranet_isolatic	on 4	Edit Delete
	Src IP Address		Control Type	Block (Revers	se flow misma	itches) ~				
	Dest IP Address 192.168.6.0/24 :	All Ports VA	Interface	All lime			e D	Internal_network_Ir anet_isolation	ntr 4 P	Edit Delete
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// Folloppo	< 1 > 10/p	bage								Tota
ACL List									+ Add	Delete Selected
Up to 50 entries	can be added.									
	Rule	Control Type	Wireless Sch	edule	Interface	Effect	ive State	Remark	Match Order	Action
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Src IP Addre 192.168.7.0/ Dest IP Add 192.168.6.0/ Protocol All	ess 24 : All Ports iress 24 : All Ports Protocols	Block	All Time	2	LAN	A	ctive	Block Guest	1 1	Edit Delete
Src IP Addre 192.168.7.0/ Dest IP Add 192.168.111. Protocol All	ess 24 : All Ports ress 0/24 : All Ports Protocols	Block	All Time	2	LAN	A	ctive	_Intranet_isolation	٦	Edit Delete

Configuration Verification

Guest network users 192.1687.2 can't access the internal network users 192.168.6.2.

Paugie	Guest_WiFi so d2:05:88:f1:69:9	9 20	-50 dBm
Gate	Channel:149 IP:192.168.7.2 way:192.168.7.1	Link speed:52 MAC:bce2.65	2 Mbps 69a.8dbe 8 58 94
-20 -40 -60 -80 -100	•		
÷	192.168.6.2		DONE
Hanor Vi	ow 10	use	
8	0	100.00%	0 ms
Sent	Received	Loss rate	Avg Delay

5.3.3.2 Configure via Ruijie Cloud APP

Requirement

Configure Guest WiFi via Ruijie Cloud APP for Guest users in the VLAN7 network segment which cannot access the internal network in the VLAN6 network segment. Ruijie Cloud APP will deliver the corresponding configuration to device automatically.

Network Topology



Network Description:

- EG works as a DHCP server to assign IP addresses to users and AP & switch devices
- The AP & switch devices obtain the IP address in the VLAN1 network segment for Internet access
- The internal users obtain the IP address in the VLAN6 network segment for Internet access and the guest user obtain the IP address in the VLAN7 network segment for Internet access

Configuration Steps

Step1: Login to your Ruijie Cloud APP on smartphone then enter the project with Reyee gateway + RAP



Step2: Choose Villa/Home scenario then you can see Guest Wi-Fi button.



Step3: Select Guest Wi-Fi function and click **Enable** button.

`		test123		Q	G
/illa/ tome	Basic Enabled	Guest Wi-F	i IP M Disc	GMT	Intr
inabled	on 4000 + Reyee	projects.	C	Enable	
	Í				
You co	II create a Gue	st Wi-Fi for v	isitors. Th	e client:	5
You co conne but ca you co clients	In create a Gue cted with this W n not access the an configure Int	st Wi-Fi for v /i-Fi can acce e internal net ernet speed	isitors. Th ess the Inte work. In e limit for th	e clients ernet on additior nese	s nly n,
You co conne but ca you co clients Feature	II an create a Gue cted with this W n not access the an configure Int	st Wi-Fi for v Vi-Fi can acce e internal net ernet speed	isitors. Th ass the Inte work. In e limit for th	e clients ernet on additior nese	s aly a,
You co conne but ca you co clients Feature Prote	in create a Gue cted with this W n not access the an configure Int	st Wi-Fi for v /i-Fi can acce e internal net ernet speed k security	isitors. Th iss the Inte work. In limit for th	e clients ernet on additior hese	s aly a,
You co conne but ca you co clients Feature Prote Limit	If an create a Gue cted with this W n not access the an configure Int ct internal networ	st Wi-Fi for v /i-Fi can acce e internal nel ernet speed k security or virus 0	isitors. Th iss the Inte work. In e limit for th	e clients ernet on additior hese	s aly a,
You co conne but ca you co clients Feature Prote Limit	an create a Gue cted with this W n not access the an configure Int configure Int ct internal networ broadcast storm of o enable	st Wi-Fi for v /i-Fi can acce e internal nel ernet speed k security or virus O	isitors. Th sss the Inte work. In e limit for th	e clients ernet on addition hese	s sly ı,

Step4: Modify Guest Wi-Fi information, configure a Internal user SSID named as Guest_APP and set VLAN6 to this SSID and configure a Guest WiFi SSID named as Guest_WiFi and set VLAN7 to this SSID, then Click Save to save your configuration.

< A	dd	<	Add	
WLAN Access Subnet	Param Config Delivery	WLAN A	Access Subnet Par	am Config Delivery
Name/SSID Guest_APP		Name	Guest_Wi-Fi	
Encryption		VLAN ID	7	
Password	* **		Advanced Co	nfig 🗸
Encryption Mode	WPA/WPA2-PSK >	Default Gat	teway/Subnet Mask	192.168.7.1/24 >
Advanced	Settings 🗁	DHCP Servie When enable get the IP.	ce :d, the connected clients	can automatically
Band 2.4G The 2.4 GHz band provides a la better at penetrating solid object	ger coverage area and is	Dynamic(25	54) 192.168	3.7.1~192.168.7.254 >
slower speeds. 5G The 5 GHz band provides less co at faster speeds.	Speed Limit The maximum download speed ≤ 1.3MB/s and the maximum upload speed ≤ 0.1MB/s.			
		Downlink B	andwidth (Mbps):	
N	ext		Next	

Step4: Waiting around 1 minute for system delivering the configuration to device.

< **Configuration Delivery** Configuring... 46 Please wait. ES209GC-P_ES209GC-P -----Switch SN:CAPC0YL008237 Switch configPort ID: [Port 7] Waiting Switch configPort ID: [Port 2] Waiting Switch configPort ID: [Port 1, Port 3, Port 4,... Waiting ⊃^{Configurin}g Switch configAdded VLAN 7 RAP2260(E)_RAP2260(E) ----AP SN:G1QH6WX000534 Update EasyNetwork wireless config Con… $\ensuremath{\bigcirc}_g^{\text{Configurin}}$ EG105GW_EG105GW Gateway SN:H1PH745119402 Update ACL configREJECT Source IP/Netw··· Waiting Update IP traffic controlDevice: H1PH745… Waiting Update global traffic control Configuratio… Waiting Update LAN config Configuration: [{"dhcp… Waiting Update EasyNetwork wireless config Con… Configurin g < Configuration succeeded < 6 Basic

Delivery succeeded

Project Details



Configuration Verification

The guest user 192.168.7.97 can't be able to access the internal user 192.168.6.147.

Ruijie	Guest_APP 80/ e:b9:70:73:a4:4	whz sg 79	-16 dBm
	Channel:56	Link speed:39	0 Mbps
	192.168.7.97	MAC:bce2.65	9a.8dbe
Gatewo	iy:192.168.7.1	DNS:192.168	.7.1
-20 -40 -60 -80 -100		~~	
← 1	92.168.6.1	47	DONE
Honor View	10 Pa	use s	
13	0	100.00%	0 ms
Sent	Received	Loss rate	Avg Delay

5.4 Reyee SON—Self-Organizing Network

Self-organizing network feature, which breaks through the product limitations and realizes auto-discovery, auto-networking and auto-configuration between routers, switches, and wireless APs without the need for controllers or internet access. With the mobile APP, users can quickly complete the device deployment and configuration, remote management, operation and maintenance of the entire networks, which greatly reduces the investment of equipment cost, labor cost and time cost in the process of wireless network construction.

5.4.1 The principle of Reyee SON

5.4.1.1 Network ID

Every device has its own network ID.

Only devices with the same networkID can be added to a network.

Devices with different networkID should be merged before added to the same network.

The network ID is 0 by default.

After the device is configured, it will have a new network ID(networkid is non-zero).

After configure:



5.4.1.2 Protocol

Easydisc

Responsible for neighbor discovery, master election, and notification of master changes.

Easydisc is a proprietary protocol and uses UDP port numbers 43561 and 43562 for communication.

MQTT

Responsible for the collection of networking equipment information, the collection of STA information, and the synchronization of configuration information.

MQTT is a standard protocol and uses TCP port number 1883 for communication.

5.4.1.3 Easydisc - Role



5.4.1.4 Easydisc- packet

Packet type:

Declare: broadcast; in the Initial state, broadcast declares message; send its own priority and other related information.

Reject: unicast; when receiving the decade message, according to the election priority, if its own priority is higher, it will reply reject.

Join: broadcast; sent by the master, when other initial states receive the message, they will connect to the master according to the master information in it.

Conflict: unicast; the master sends a conflict message when it receives a join message from another master and cannot be resolved according to the conflict handling algorithm.

Merge: unicast; the master sends a merge message when it receives a join message from other masters and can merge the other party's network according to the conflict handling algorithm.

Hello: broadcast; all devices start broadcasting hello packets after the role status is confirmed for neighbor discovery.

5.4.1.5 Master election roles

Priority:

- (1) EG > AP > SW
- (2) Device model: device CPU/Memory/other(AP radio number)
- (3) When the priorities are the same, the larger MAC address will be the master.

Select the Master:



Re-select the Master:



5.4.1.6 Master preemption mechanism

If a device with a higher priority joins a network, the master device will change. The new device will send a merge packet to the master device.

1.For AP networking, after the master is selected, if a new EG is added, EG will become the master.

Delay time: 7-8s

2.For AP networking, after the master is selected, if a new AP with a higher priority is added, the preempt is delayed.

Delay time: preemption starts after the master is powered on for 36 hours and the new device is powered on for 5 minutes; otherwise, preemption starts after the new device is powered on for 30 minutes.

3. For AP+SW networking, after the master is selected, if a new EG is added, EG will become the master.

5.4.2 The configuration of Reyee SON

5.4.1.1 Neighbor Discovery

Add devices of other networks to **My Network**.

Ruíjie	Cloud_Auth_Test > EG105G-P [Master] 0			English ~	ownload App 🔮 Network Setup 🔞 Network Check	<u>ṁ</u> Warn [<mark>→</mark> Log Ou
_{δ²δ} Overview	Maturale List					
Online Clients	Every network varies in devices and configuration.	You can add devices of Other Network to My Ne	etwork.			0
Router	My Network					
⇔Wireless v	Cloud Auth Test (2 devices)					~
Switches	Model	SN	IP	MAC	Software Ver	
Network ~	Router EG105G-P (Master)	H1PTA. ö	192.168.110.254	C0:B8:E6::	ReyeeOS 1.56.1325	
	A P RAP2200(F)	G1QH16Q0.	192.168.110.39	C4:70:A ^r 4	ReyeeOS 1.75.2429	
	Other Network					
	Router RAP (1 devices) Add to M	y Network				~
	2 Model	SN	IP	MAC	Software Ver	
	AP RAP1200(F)	G1QH.	192.168.110.205	C4:70:A.	ReyeeOS 1.75.2429	

Enter the password of device.

Cloud_Auth_Test > EG105G-P (Manual) 0			English ~ 🛆 Ruijle Cloud 🏼 🕅 Dov	vnioad App
Network List Every network varies in devices and configuration	1. You can add devices of Other Network to My	Network		
My Network	Add Device to	o My Network	×	
Cloud Auth Test (2 devices)	* Password			
Model			MAC	Software Ver
Router EG105G-P [Master]	H1i	Forgot Password	dd 10:88:E6:	ReyeeOS 1.56.1325
A P RAP2200(F)	GIQH	192.168.110.39	C4:70:AB:A2.	ReyeeOS 1.75.2429
Other Network				
Router RAP (1 devices) Add to 1	My Network			
Model	SN	IP	MAC	Software Ver
A P RAP1200(F)	G1QF	192.168.110.205	C4:70:	ReyeeOS 1.75.2429

Device is added to the network.

Advanced Solution Guide

Reyee Cookbook

Rujje	Cloud_Auth_Test > EG105G-P (Maximi)			English ~ _ CRuijie Cloud i i Dow	vnload App 🔌 Network Setup 🔌 Network Check 👔	ត្ម Warn 🕞 Log Out
6 ⁶ 0 Overview	Network List					0
Online Clients	 Every network varies in devices and configuration 	. You can add devices of Other Network to My Net	work.			U
Router	My Network					
⇔Wireless ~	Cloud Auth Test (3 devices)					~
🖾 Switches	Model	SN	IP	MAC	Software Ver	
* Network	Router EG105G-P [Master]	HIPTAT	192.168.110.254	C0:	ReyeeOS 1.56.1325	
	A P RAP2200(F)	G1Q	192.168.110.39	C4:70:A	ReyeeOS 1.75.2429	
	A P RAP1200(F)	G1Q	192.168.110.205	C4	ReyeeOS 1.75.2429	

5.4.1.2 Device networking role

Master:



Slave:

Soverview	Router RAP > RyeeEG M	The state Hostname: RyeeAP1 • RAP1200(E) MAC: 30:00 f Overview Basics > Wireless > Advance	SN: CANL ed ~ Diagnostics ~ System ~	IP: 192.168.110.203	(1) Reboot
Router	AP List Group: All G	Overview			
⇔Wireless ^	Action	Memory Usage 35%	Online Clients 0	Status: Online Duration: 3 hours 14 minutes 19 seconds Systime: 2022-03-03 21:01:04	
WI-FI Clients Blacklist/Whitelist Radio Frequency LAN Ports	O Manage O K O Manage O K O Manage O K O Manage O K	Device Details Model: RAP1200(E) SN: C Work Mode: AP & Hardware Ver: 1.00	Hor Softw	stname: RyeeAP1 & MAC: 30:0D: Role: Slave AP @ (Master AC: 192.168.110.1) are Ver: ReyeeOS 1.55.1914	ĺ
LED Network Optimization		Wi-Fi Primary Wi-Fi: Router RAP Security: No Interface Details	ç. Gue	est WI-FI:	
		Connected Disconnected	WAN LANI LAN 192.168.110.203	N2 LAN3	Click RITA for help.

5.4.3 The troubleshooting of SON

Fault symptom

Network self-organization Fail

Cause

There are multiple masters, and more than 1 @Ruijie-mxxx SSID could be seen.

Layer fails to broadcast.

Solution

Check whether the devices are connected with same network and merge all the devices to the same network.

Check whether there are have some configurations like VLAN and port isolation.

Check whether the SON is disabled.

5.5 Reyee Mesh Solution

The Mesh function of Reyee EW series routers support zero-configuration networking for multiple devices, and can self-recover when there are some single point issues. The wireless coverage requirements of home scenarios could be satisfied by the Mesh function of Reyee EW series completely.

5.5.1 Application Scenario

Zero-Configuration Network



Self-Recover Network



Tips:

The Mesh function can automatically switch between wired and wireless links. It will automatically switch to wired mesh after wired access and automatically switch to wireless mesh after the network cable is unplugged

5.5.2 Configuration Case

Requirement

Provide wireless network for clients' home (Two rooms and one hall).

One of room requires to connect the wireless internet and the other one connect to wire internet.

Network Topology



Network Description:

1. Master gets the DHCP IP address from ISP to access internet, broadcasting default SSID @Ruijie-m49fd which is used by clients and broadcast a default hidden mesh Wi-Fi to let repeater to connect.

2. Repeater connected with Master using wired or wireless will broadcast the default SSID @Ruijie-m49fd after mesh succeed.

Configuration Steps:

Step 1: Connect the ISP cable to the WAN port of Master. The master will get the DHCP IP address from ISP which can access internet.

If you need to configure PPPoE account or static IP, you can connect your PC to the LAN port of the master, using default IP 192.168.110.1 to access it. Then refer to the Wizard to configure the internet. Click Start-Setup, fill the PPPoE information or Static IP information, click Next to configure the SSID information.



	Wizard		🕞 Exit
	Wi-Fi Settings		
	Dual-Band Single SSID		
	* SSID	Used by Dual Bands	
[@Ruijie-m49fd		
	* Wi Fi Password		
		344	
	Country/Region/Time Zone	~	
	* Country/Region		
	China (CN)		
	* Time Zone		
	(GMT+8:00)PRC		
	Previous	Override	

Step 2: Connect the WAN port of Repeater1 to the LAN port of Master. Step 3: Press the **Pairing** button <1s on Master and Repeater 2

Configuration Verification

Clients can connect the Wi-Fi @Ruijie-m49fd and access internet successfully.

5:24 PM 💩 🔯 💁 🚥 ∩ & © "ill 📚 💷 × \checkmark @Ruijie-m49fd network details **Connect automatically** (i) 0 Status Technology Connected Generation 4 \bigcirc all. Connection speed Signal strength 400Mbps Excellent • (1) Security IP address WPA/WPA2-Personal a14a:dc4b:6add:6417 192 몲 Ш Subnet mask Router 192.168.110.1 255.255.255.0 Proxy None \$ IP settings DHCP \$

5.6 Reyee Economic Hotel Network Solution

5.6.1 Application Scenario

Reyee economic hotel network solution provides an affordable 5-star Wi-Fi for clients. It can operate concurrently at 2.4GHz and 5GHz, providing high-speed wireless access of 574Mbps at 2.4GHz, 1201Mbps at 5GHz and up to 1775Mbps per AP. The wall AP provides a LAN port at the front to facilitate the expansion of IPTV, IP phone, etc.



5.6.2 Configuration Case

Requirement

1. Wireless network for Hotel, guests need to do voucher authentication before accessing internet and can't access internal network of hotel.

2. Providing wired connection for IPTV.

Network Topology



Devices List

Туре	Model	Function
Gateway	EG105G-P	 1.Connect Internet and work as DHCP server for downlink devices and clients; 2.Manage AP and Switch Devices locally; 3.Support Cloud voucher authentication with Ruijie Cloud;
Switch	ES209GC-P	Provide wired and POE connection.
Wall AP	RAP1200(F)	1.Provide wireless connection for room. 2.Provide wired connection for IPTV.
Indoor AP	RAP2200(F)&RAP2260(G)	Provide wireless connection for hall and corridor.

Configuration Steps

Step1: Power on and connect the device refer to the topology.

Step2: Access Gateway by default IP 192.168.110.1, refer the Start Setup step to configure the basic network settings.

					English 🗸 🕒 Exit
Total Devices: 5. Please make sure that the device coun	t and topology are correct. The unmanaged	I switch will not appear in the list.			Ø
Net Status (Online Devices / Total) DHCP Internet	7.0000 1 Router	Switches		Refresh Q
My Network					
New Device (5 devices)					~
Model	SN	IP	MAC	Software Ver	
Router EG105G-P-V2 [Master]	EG3	192.168.110.1	00:D0 08:43	ReyeeOS 1.56.1325	
A P RAP1200(F)	G1QF	384A 192.168.110.205	C4:70: 13:6A	AP_3.0(1)B11P35,Release(08132700)	
A P RAP2260(E)	G1QH	0534 192.168.110.200	EC:B9: 4:97	ReyeeOS 1.75.1318	
A P RAP2200(F)	G1QH	197B 192.168.110.39	C4:70:A :64	ReyeeOS 1.75.1320	
Switch RG-ES209GC-P	CAQ	4240 192.168.110.44	EC:B9:7(B5	ESW_1.0(1)B1P3,Release(07200415)	
		Rediscover	Start Setup		

Set the Network Name, Network Settings, SSID for Staffs and the set the Management Password.

Ruíjie I RCycc Create Network	English -> 🔂 Exit
* Network Nam	Reyee-Hotel
Network Settin	gs
Interne * SSI WI-FI Passwor Management P	t PPPoE DHCP Static IP Current Settings DHCP Hotel-Staff d Security Open
* Managemen	
Country/Region	n/Time Zone ∽
L Caracter Medica	
* Country/Negloi	Crina (CN)
* Time Zon Pr	e (rGMT+8:00IAsia/Shanohai

Click Create Network & Connect to active configuration and add the devices to Cloud.

	MONITORING CONFIGURATION MAINTENANCE
8 abc 1.com V	Reyee-Hotel V Search Network Q
位 DASHBOARD	Topology Advanced
윦 TOPOLOGY	
酋 ALARM	Please select the device
REPORT	
Network	(WAN)
Voucher	—
吕 DEVICE	EG105G-P
AP	
AC	LANI
Gateway	Uplink
Home Router	Untrown
Bridge	Virtual device
A CAMERA	
Cameras	(port2) (port3) (port1)
NVR	(WAN) (WAN) (WAN)
R CLIENT	AP AP AP
	RAP1200(F) RAP2200(E) RAP2200(F)

Step2: Click Router->Basic->LAN to create VLAN 2 and VLAN 3 for Staff and Guest.

Ruíjie Rcycc	Reyee-Hot	el > Ruijie (Master) 🕖				Englis	sh ~ Cloud	顓Download App	🔮 Network Setup 🛛 🥥	Network Check	∰ Warn ⊡Log O	Put
్రి Overview (ల్లి Online Clients (బై Router	• EG1 Overvier	w Basics Security	ne: Ruijie r ∼ Behavior ∼ VPN ∼	SN: H1 4 Advanced ~ Diagnosti	IP: * cs ∨ System ∨	MAC: EC 5					(1) Reboot	
♥Wireless ✓ ♥Wireless ✓	LAN Setti	DHCP Clients	Static IP Addresses	DHCP Option DNS Prox	у						0	
	LAN S	an Settings								+ Add	Delete Selected	
	Up to	8 entries can be added.										
		IP	Subnet Mask	VLAN ID	Remark	DHCP Server	Start	IP Count	t Lease 1	lime(Min)	Action	
		192.168.110.1	255.255.255.0	Default VLAN	e	Enabled	192.168.110.1	254		30	Edit Delete	
		192.168.112.1	255.255.255.0	2	Υ.	Enabled	192.168.112.1	254		30	Edit Delete	
		192.168.113.1	255.255.255.0	3	-	Enabled	192.168.113.1	254		30	Edit Delete	
≪Collapse												

Step3: Click **Router->Basic->IPTV** to set IPTV settings get from ISP. For example, the IPTV VLAN is 100, you can do as below:.

Ruíjie I & Reyce	Reyee-Hotel > Ruijie (Manner: 0	English 🗸 🛆 Ruijie Cloud 📓 Download App 🔌 Network Setup 🚳 Network Check 📺 Warn 🕞 L	og Out
8 Overview	Overview Basics Security Behavior VPN Advanced Diagnostics	System Y	
Online Clients BRouter	IPTV/UAN IPTV/IGMP		
© Wireless ∨	1 IPTV/VLAN settings.		
Switches	IPTV/VLAN		
-== Network	* Mode Custom		
	* LANO Internet ~		
	*LANT IPTV ~		
	* LAN2 Internet ~		
	* LAN3/WAN1 Internet		
	* IPTV VLAN ID 100		
	Internet VLAN 802.1Q Tag		
	Save		4
«Collapse			

Step4: Click **Wireless->LAN Ports->Add** to configure VLAN 100 for IPTV, if it use the default VLAN 1, this step could be ignored.

Reyce			
Clients Coverview Contine Clients Cli	LAN Port Settings The configuration takes effect only for the AP we Note: The configured LAN port settings prevail VLAN ID (Range: 2-232 and 234-4090, WAN port.) Applied to AP device with no LAN port setungs.	× wall AP Cancel OK	
Radio Frequency LAN Ports LED WIO	Save LAN Port Settings Up to 8 VLAN IDs or 82 APs can be added (0 APs have been added).		+ Add Delete Selected
The work Karlow		Applied to	Action

Step5: Click Wireless->Wi-Fi to configure the WiFi for staff and guest. Choose VLAN 2 for Staff.

Ruíjie	Reyee-Hotel > Ruijie (Mineral) 0	English ~ _ CRuijie Cloud 쀎Download App	Varn 🕞 Log Out
윦Overview			
Online Clients	WI-HISEttings Guest WI-HI WI-HILIST Healthy Mode Load Balancing		
A Router	1 Tip: Changing configuration requires a reboot and clients will be reconnected.		0
ক Wireless	Wi-Fi Settings Device Group: Default		
APs	*SSID Hotel-Staff		
Wi-Fi	Band 5G ~		
Clients			
Blacklist/Whitelist	Security WPA_WPA2-PSK		
Radio Frequency	* WI-FI Password		
LAN Ports	Collapse		
LED	Wireless Schedule All Time ~		
WIO	VIAN 2		
Switches			
- Network	Hide SSID (The SSID is hidden and must be manually entered.)		
	AP Isolation (The client joining this Wi-Fi network will be isolated.)		
	Band Steering (The 5G-supported client will access 5G radio preferentially.)		e.
	XPress (The client will experience faster speed.)		1

Step6: Enable Guest WiFi, choose VLAN 3 for it.

Ruíjie	Reyee-Hotel > Ruijie (Manna) 0	English ~ 🛆 Ruijie Cloud 📓 D	ownload App Network Setup	O O	监 Warn □ Log Out
a [®] aOverview	Wi-Fi Settings Guest Wi-Fi Ust Healthy Mode Load Balancing				
Online Clients					0
Router	Tip: Changing configuration requires a reboot and clients will be reconnected.				0
♥Wireless ^	Guest Wi-Fi Device Group: Default				
APs	Enable				
Wi-Fi	* SSID Hotel-Guest				
Clients	Band 2.4G + 5G				
Blacklist/Whitelist	Country Co				
Radio Frequency	Security Open				
LAN Ports	Collapse				
LED	Wireless Schedule Never Disable ~				
WIO	VLAN 3				
Switches					
-0 -0 Network	Hide SSID (The SSID is hidden and must be manually entered.)				
	AP Isolation (The client joining this Wi-Fi network will be isolated.)				
	Band Steering (The 5G-supported client will access 5G radio preferentially.)				
	XPress (The client will experience faster speed.)				Ai
«Collapse					

Step7: Click **Router->Behavior->Access Control, Configure ACL** to add ACL to block guest accessing to the internal network.

Add two ACLs to block VLAN 3 accessing to VLAN 1 & VLAN 2, this function is applied in LAN port.

Advanced Solution Guide

Reyee Cookbook

	Reyee-Hotel > Ruijie Mina				English ~	Ruijie Cloud i Download App	ork Setup 🏾 @ Networl	: Check 逝Warn 日Log Out
$\frac{9}{66}$ Overview								
Online Clients	• EG105G-P	iostname: Ruijie	SN: H1QH6RL045754 Add Rule	IP: 172.26.5.46	MAC: EC:89:70:17:39:35			
Router	Overview Basics ~	Security Y Behavior YP	N - Ad					
♥Wireless	ACL Configure ACL based	on IP addresses. Reverse flow m	Based on	O MAC O IP				
@ Switches	The policy cannot tak Example: Configure a to access device 192.	te effect on the WAN port to bloc a deny ACL entry containing sou 168.1.x.	k the traffic Src IP Address: Port	192.168.113.0/24	: 1-65535	as effect in the LAN network. IP address 192.168.1.x will fail to access device 192	.168.2.x. But device 192.	68.2.x will be allowed
書Network ~	Tip: Configure one n	nore deny ACL entry containing	Dest IP Address: Port	192.168.110.0/24	: 1-65535	be mutually unreachable.		
	ACL List		Protocol Type	All Protocols			+ Add	Delete Selected
	Up to 50 entries can be	added.	Control Type	Block (Reverse flow	mismatches)			
	Ru	le Co	Wireless Schedule	All Time		tive State Remark		Action
			Interface	LAN	~			
	10/pa	ge 👒	Remark	Enter the ACL purpo	se.			Total 0
					Cancel			
								er Ai
Collapse								
Ruíjie Rcycc	Reyee-Hotel > Ruijie Miner	w] 0			English ~	・ 〇 Ruijie Cloud - 認Download App - 会 Netwo	ork Setup 🏾 @ Networl	c Check 🖄 Warn 🕞 Log Out
る のverview								
Online Clients	EG105G-P	lostname: Ruijie	SN: H1QH6RL045754	IP: 172.26.5.46	MAC: EC:B9:70:17:39:35			(1) Reboot
Router	Overview Basics ~	Security ~ VP	N V Ad		~			
♥Wireless	ACL	10 Jan 10	Based on	O MAC O IP				
Switches	The policy cannot tak Example: Configure	ce effect on the WAN port to bloc a deny ACL entry containing sou	k the traffic Src IP Address: Port srce IP addre	192.168.113.0/24	: 1-65535	es effect in the LAN network. IP address 192.168.1.x will fail to access device 192	.168.2.x. But device 192.	68.2.x will be allowed
Network	to access device 192. Tip: Configure one n	168.1.x. nore deny ACL entry containing	source IP a Dest IP Address: Port	192.168.112.0/24	: 1-65535	be mutually unreachable.		
	ACL List		Protocol Type	All Protocols	×		+ Add	Delete Selected
	Up to 50 entries can be	added.	Control Type	Block (Reverse flow	mismatches) 🗸 🗸			
	Ru	le Co	wireless Schedule	All Time	v	tive State Remark		Action
	Src IP Address 192.168.113.0/24 :	All Ports	Interface	LAN	~			
	Dest IP Address 192.168.110.0/24	All Ports	Block	Enter the ACL purpo	se.	Active		Edit Delete
	Protocol All Proto							
	< 1 > 10/pa	ge \vee			Cancel OK			Total 1
								(P. Ai
«Collapse								
ACL List							+ Add	Delete Selected
Up to 50 entries can b	pe added.							
							Match	
	Rule	Control Type	Wireless Schedule	Interface	Effective State	Remark	Order	Action
Src IP Address	4 : All Ports							
Dest IP Address	s 4 - All Ports	Block	All Time	LAN	Active		4	Edit Delete
Protocol All Pro	tocols							
Src IP Address	4 · All Ports							
Dest IP Address	4 - All Ports	Block	All Time	LAN	Active		٢	Edit Delete
192.168.110.0/2 Protocol All Pro	4 : All Ports tocols							

Step 8: Login to Cloud web to configure Cloud voucher authentication for guest.

Click the SN of the EG to enter its device detail page.

Ruijie	MONITORING CONFIGURATION MAINTENANCE	6 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A abcdefg@111.com ~	ALL V > Reyee-Hotel V Search Network Q (GMT+6:00)Asia/Shanghal Man	age Project Take over Network Unbind Device
R TOPOLOGY	Gateway List	Auto Refresh: 💽 😌 🖄 📰 = 😒
濟 ALARM	Add Web CU eWeb More + 0 Selected	SN, Alias, Description Q
REPORT	Status SN Alias MGMT IP MAC Egress IP Network Firmware Version Offline Tim	me Model Description Action
Network	Online H12 54 Buille 172.26.5.46 ecbs 35 120 Beyee-Hotel ReyeeOS 1.56.1325 2022-04-19.21	:36:07 EG105G-P Emply
Voucher	First Previous Page 1 of 1 Next Last	10 - 1 in total
AP		
AC		C.
Switch		
Gateway Home Router		
Bridge		
A CAMERA		
Cameras		
NVR 9. CLIENT		
GUENI		

Click Config->Cloud Portal Auth

Ruíjie	MONITORING CONFIGURATION MAINTENANCE	•• • • • •
A abcdelg@111.com ~	Device Details	Take over Network Unbind Device
DASHBOARD	WAN LAN Disconnected Diabled PPPOE Static IP DHCP Copper SFP Alias: Rulline /	
品 TOPOLOGY 商 ALARM	Lose LANT LANZ LANDINGHT TWHE SN: H11 "54	SN, Alias, Description Q
REPORT	Operation Mode: Route Egross IP 12	Model Description Action
Voucher	Actual Master Device: H1QHC 14 MGMT IP 172.26.5.46 Network Master Device: H1QL 754 Firmware Version: ReyeoC8 1.56.1325	10 - 1 in total
AP BEVICE	Overview Config	
AC Switch		G
Gateway Home Router	Web CLJ eWeb TELNET SSH Tunnel Reboot Cloud Portal Auth	
Bridge	IPTV	
Cameras	IPTV/VLAN IPTV/IGMP	
NVR 8 CLIENT	WAN LAN Disconnected Disabled PPPoE Static IP DHCP Copper SFP	
WY GEEN		
	Dynamic DNS 🔍	

Enable auth and configure the Guest clients IP range from 192.168.113.2 to 192.168.113.254.

Advanced Solution Guide

Reyee Cookbook

	Auth @ C After you enable Cloud Portal Auth, it will be synced to the Reyee EG automatically.	🔮 0 0 0 🔮
AL	Portal Escape 🛛 🔍	Take over Network Unbind Device
DASHBOARD	Auth IP/Range 192.168.113.2-192.168.113.254 +	
응 TOPOLOGY		lefresh: 💽 🤂 🖄 🗰 🕫
首 ALARM	Seamless Online @	SN, Alias, Description Q
REPORT	User Offline Detection	Model Description Action
Network	Please select a portal or add a new portal.	EG105G-P Empty
Voucher	test	10 a 1 in total
E DEVICE		2
AP		(
AC		G
Gateway	O Voucher Login	
Home Router	Access Code	
Bridge		
A CAMERA		
Cameras		
NVR		
R CLIENT		
	Save	

Add the voucher package for Guest

Click Voucher->Manage Package->Add Package to add voucher package for Guest.

	MONITORING CONFIGURATION MAINTENANCE	🗳 O O O O
A abcdetg@111.com V	Reyee-Hotel V Search Network Q (GMT+8.00)/sia/Sha	nghai Manage Project Take over Network Unbind Device
PROJECT WIRELESS Basic Layout Radio Wi-FI Optimization Bitrefronth	Note: Reyee AP requires authentication on Reyee gateway. Please enable Cloud Auth on EG for Reyee devices. How to enable Cloud Auth on Reyee EG? Voucher Print Voucher Manage Package More Total Vouchers: O Activated Vouchers: O Depleted Vouchers O Depleted Vouchers O Depleted Attivated at Expired at Devices Bind MAC No Data	
Load Balancing Captive Portal PPSK: Voucher Account Easy Sharing ADVANCED Batch CLI Config Customize CLI Set AP VLAN	Fist Prevous Page o do Next Last	U in tota

Example: the **Concurrent Devices** to be 2, **Period** to be 1 day and the upload and download speed limitation to be 2Mbps.

Ruíjie 🛆	MONITORING CONFIGURATION	MAINTENANCE	 0 0 0
A abcdefg@111.com	Reyee-Hotel V Search Network Q	Add Package Package Name Guest *	X T+8:00)Asia/Shanghal Manage Project Take over Network Unbind Device
 WIRELESS Basic Layout 	Note: Reyee AP requires authentication on Voucher > Manage Package	Description	⊖ #+:
Radio Wi-Fi Optimization	Package Name Descripti	Bind MAC	Nowmload Speed Upload Speed Action
Bluetooth		Period 1 Day Download Speed 2 Mbps	1 in tot
AUTHENTICATION Captive Portal PPSK Voucher Account	l,	Upload Speed 2 Mtps	
Easy Sharing DADVANCED Betch CLI Config Customize CLI Set AP VLAN			

Click Print Voucher to get one code for Guest.

	MONITORING CONFIGURATION MAINTENANCE
 A abcdefg@111.com ∨ PROJECT 	Reyee-Hotel V Search Network Q
হ WIRELESS	Note: Reyee AP requires authentication on Reyee geteway. Please enable Cloud Auth on EG for Reyee devices. How to enable Cloud Auth on Reyee EG?
Layout	Print Voucher Manage Package More - Total Vouchers: 0 Activated Vouchers: 0 Depleted Vouchers O Voucher Code, Alias, Pack Q Advanced Search - Voucher Code, Alias, Pack Q Voucher Code, Alias, Pack Q
Wi-Fi Optimization	Voucher Code Alias Package Name Price Period Created at Activated at Expired at Devices Bind MAC Download Speed Upload Speed Status
Roaming	NO LBEA
Bluetooth	First Previous Page 0 of 0 Next Last
 AUTHENTICATION Captive Portal PPSK Voucher Account Easy Sharing ADVANCED Batch CLI Contig Customize CLI Sat AP VLAN 	

					🗳 0 0 0 0 •
A abcdefg@111.com ~	Reyee-Hotel V Search Network Q		(GMT+8:00)Asia/Shanghai	Manage Project Take over	Network Unbind Device
 PROJECT WIRELESS Basic Layout Radio W-Fi Optimization W-Fi Optimization Bluetooth Load Balancing AUTHENTICATION Captive Portal PPSK 	Note: Revee AP requires authentication on Revee gateway. Please enable Cloud Auth on EG for Revee devices.	How to enable Cloud Auth on F Profile Information of You can select at most 4 Package Name Guest Concurrent Devices 2 Preview	Revee EG? An Voucher parameters for the voucher. Voucher Voucher Code:	Bind MAC No Period 1 Day	Entern Entern Enterne
Voucher Account Easy Sharing ADVANCED Batch CLI Config Customize CLI Set AP VLAN	Guest Cogo Coar Select the logo Text O440 Print Method Print in 2 Columns (A4)		XXX	XXX	
Voucher Code x4	2nbz	Prir	nt		1 sheet of paper
		Dest	tination	Hicrosoft F	Print to PDF 🔻
		Pag	es	All	v
		Layo	out	Landscape	Ŧ
		Colo	or	Black and white	•
		Mor	e settings		~
				Print	Cancel

Configuration Verification

Connect Guest WiFi, then you can see the internal IP 192.168.110.1 can not be accessed.



6 Reyee FAQ

- 6.1 <u>Reyee Password FAQ ((collection))</u>
- 6.2 Ruijie Cloud Reyee EG authentication FAQ((collection))
- 6.3 <u>Reyee Wireless Repeater FAQ ((collection))</u>
- 6.4 <u>Reyee EST Bridge FAQ ((collection))</u>
- 6.5 <u>Reyee Parental Control FAQ ((collection))</u>
- 6.6 <u>Reyee Mesh FAQ ((collection))</u>
- 6.7 <u>Reyee IPTV FAQ ((collection))</u>
- 6.8 <u>Reyee Authentication FAQ ((collection))</u>
- 6.9 <u>Reyee Behavior Strategy FAQ ((collection))</u>
- 6.10 Reyee DDNS FAQ ((collection))
- 6.11 <u>Reyee VPN FAQ ((collection))</u>
- 6.12 <u>Reyee Flow Control FAQ((collection))</u>
- 6.13 Reyee Guest WiFi FAQ ((collection))
- 6.14 <u>Reyee Wireless Configuration FAQ ((collection))</u>
- 6.15 Reyee Self-Organizing Network (SON) FAQ ((collection))
- 6.16 <u>Reyee series Devices Parameters Tables</u>
- 6.17 <u>Reyee Parameter Consultation FAQ ((collection))</u>

7 Appendix: Monitor

7.1 Reyee Gate Series Router Monitor

The overview page displays Device Info, Wi-Fi information, Network Status and Real-Time Flow.



7.1.1 Device Info

The Device Info page show the model, hostname, IP, MAC, software version, SN of the Router.



Router->Overview page will appear by clicking Setup which displays Memory Usage, Online Clients, Status, Device Details, and Interface Details.

Appendix: Monitor

Reyee Cookbook

Rujjie Rcycc	Ruijie-Hotel > Ruijie (Kitawa) Ø	8	English ~ Ruijie Cloud 潮Download Ap	p 👲 Network Setup 🕘 Network Check	澍Warn ☐Log Out
& Overview ® Online Clients B Router	Hostname: Ruijie SN: H Hostname: Ruijie SN: H Overview Basics & Security & Behavior & VPN & Advan	IP: 17. MAC: E			(1) Reboot
⇔Wireless ∨	Overview Memory Usage	Online Clients	Status: Online		
Network V	43%	1	Duration: 1 hour 7 minutes 34 second Systime: 2022-04-04 12:14:17	ds	
	Device Details Model: EG105G-P MAC: EC Hardware Ver: 1.41 Interface Details	Hostname: Ruije 2. Work Mode: Router 2. Software Ver: ReyeeOS 1.56.1306	SN: Role:	Hi Master AC @	
	Connected	LANO LANI LAN2 WANT 192.168.120.1 172.266.1	WAN 24		
«Collapse					

The **Online** status indicates the SON status of the Reyee devices but not the online status of Ruijie Cloud.

You can Click Hostname to modify it.

Online Clie	ents
	Edit Hostname
	Ruijie
	Сапсеі ОК
	Hostname: Ruijie & Work Mode: Router & Software Ver: ReyeeOS 1.56.1306

Choose the work mode you need by clicking **Work Mode**. Router mode and AC mode are two available modes for Reyee Gate series Router. But the default mode is Router mode.



Router Mode: Nat forwarding

AC Mode: Bridge forwarding

Self-Organizing Network:

- 1. If it is enabled, the device role will be displayed.
- 2. If it is disabled, the device works in standalone mode.
- 3. It is enabled by default in AC mode.

AC:

- 1. It is enabled by default. The device works as a virtual AC to manage downlink devices.
- 2. When it is disabled, the device must be elected as the AC before managing downlink devices

7.1.2 Wi-Fi information

You can name the Wi-Fi of the network and enable Guest Wi-Fi.

Wi-Fi		Setup>
Primary Wi-Fi: @Ruijie-m3935 Security: No	Guest Wi-Fi: Security: No	

Setup: Go to the Wi-Fi setting page.

7.1.3 Net Status

The Network Status page displays the topology and connected status of the network.

Net Status (Online Devices / Total)					Refresh Q
() –		os Switch			
Internet	Router	Switches	APs	Online Clients	

7.1.4 Real-Time Flow (Kbps)

The Real-Time Flow page displays the uplink and downlink flow of the Router. The default unit is Kbps, you can change it to be bps and Mbps. The default showing interface is WAN port, if there are several WAN ports, you can choose to show other WAN ports flow information.



7.1.5 Online Clients

The Online Clients page displays the username, Type (Wired/Wireless), IP and MAC, Current Rate, connected Wi-Fi name, Access Control.
7.2 Reyee ES Switch Monitor

7.2.1 Homepage

Ruijie	≣R∈	yee																		English v Logout
Homepage									1	1 2	3 4 5 6 7 Downlink		2 Dink							
System Se	ttings	~									Co	llapse -								
Monitorin	9	~	VLAN	Settings on	0						Dev	ce Info								
				Mode	RG-ES	209G	C-P				Firmwa	re Versi	on: ESW_1	.0(1)B1P3	Release(072004	415)				
Switch Set	tings	~		MAC Address	: CO:B8:	E6:E6	:8D:77					5	SN: CAI							
VI AN Sett	inas	~		IP Address	: 192.16	8.110).3					Uptin	ne: 23d 2	Th 32min s	ods					
				Cloud Status	conne	cied	Download App					nostnan	ne: 05205	GC-P		nc.				
QoS Settin	gs	~									Por	t Info								Refresh List
PoE Settin	qs							Port Status					VLAN					Po	E	
			Port	Status	Spee	Conf d	ig Status Duplex	Actual Status	Flow Control(Conf	fig) I	Flow Control(Actual)	Туре	Permit	Native	Rx/Tx Rate (kbps)	Isolation Status	Loop Status	PoE Power	Action	Downlink Device Search
			Port 1	Enabled 👻	Auto	~	Auto 🖌	Disconnected	Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
			Port 2	Enabled ~	Auto	~	Auto 🗸	100M/Full Duplex	Disabled 🐱		Disabled	Trunk	1,6	1	1/4	Unisolated	Normal	2.9W	Re-Power On	
			Port 3	Enabled 🗸	Auto	~	Auto 🗸	Disconnected	Disabled v		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			20
			Port 4	Enabled 🗸	Auto	~	Auto 🗸	100M/Full Duplex	Disabled 🗸		Disabled	Trunk	1,6	1	1/1	Unisolated	Normal			
			Port 5	Enabled 🐱	Auto	~	Auto 🗸	Disconnected	Disabled 🐱		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			~
			Port 6	Enabled 🗸	Auto	~	Auto 🗸	1000M/Full Duplex	Disabled 🗸		Disabled	Trunk	1,6	1	0/3	Unisolated	Normal			
			Port 7	Enabled 🗸	Auto	~	Auto 🗸	Disconnected	Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
			Port 8	Enabled 🗸	Auto	~	Auto 🗸	Disconnected	Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
			Port 9	Enabled 👻	Auto	~	Auto 👻	1000M/Full Duplex	Disabled 🗸		Disabled	Trunk	1,6	1	4/8	Unisolated	Normal	PoE Unsu	pported	-

Device Info displays the model, firmware version, MAC address, SN, IP address, Uptime, Cloud status and Hostname of the device.

VLAN Settings on	0	Device Info	
Model:	RG-ES209GC-P	Firmware Version:	ESW_1.0(1)B1P3,Release(07200415)
MAC Address:	C0:B8:E6:E6:8D:77	SN:	CAF
IP Address:	192.168.110.3	Uptime:	23d 21h 41min 34s
Cloud Status:	Connected Download App	Hostname:	ES209GC-P Edit

Model: Display the model of the device.

Firmware Version: Display the firmware version of the device.

MAC Address: Display the MAC address of the device.

SN: Display the SN of the device.

IP Address: Display the IP address of the device.

Uptime: Display the running time of the device.

VLAN Setting: Display the VLAN Setting status of the device, click to enable or disable the VLAN Setting function of the device.

Cloud Status: Display the connection status of the device with Ruijie Cloud.

Hostname: Display the hostname of the device, click Edit to modify the Hostname of the device

Port Info shows ports status, VLAN configuration, isolation status, loop status, POE status and downlink device.

Appendix: Monitor

										Po	rt Info								Refresh List
						Port Status						VLAN					Po	<u>)E</u>	
Port	Status		Conf	ig Status		Actual Status	Flox	v Control(Conf	ia)	Flow Control(Actual)	Type	Permit	Native	Rx/Tx Rate (kbps)	Isolation Status	Loop Status	PoF Power	Action	Downlink Device Search
		Spee	d	Duple	₽X				.5/		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							,	
Port 1	Enabled V	Auto	~	Auto	~	Disconnected		Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
Port 2	Enabled 🗸	Auto	*	Auto	~	100M/Full Duplex		Disabled 🗸		Disabled	Trunk	1,6	1	1/4	Unisolated	Normal	2.9W	Re-Power On	
Port 3	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			-
Port 4	Enabled 🗸	Auto	~	Auto	~	100M/Full Duplex		Disabled 🗸		Disabled	Trunk	1,6	1	1/1	Unisolated	Normal			-
Port 5	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸		Disabled	Trunk	1,6	- 1	0/0	Unisolated	Normal			-
Port 6	Enabled 🗸	Auto	~	Auto	~	1000M/Full Duplex		Disabled 🗸		Disabled	Trunk	1,6	1	0/3	Unisolated	Normal			-
Port 7	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
Port 8	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸		Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
Port 9	Enabled 🗸	Auto	~	Auto	~	1000M/Full Duplex		Disabled V		Disabled	Trunk	1,6	1	4/8	Unisolated	Normal	PoE Unsu	pported	

Click Search below Downlink Device to search its downlink devices.

						Port Status					VLAN					Po	E	
Port	Status		Cont	fig Statu	5	Actual Status	Flow Contr	ol(Config)	Flow Control(Actual)	Туре	Permit	Native	Rx/Tx Rate (kbps)	Isolation Status	Loop Status	PoE Power	Action	Downlink Device Search
		Spee	d	Dup	olex													
Port 1	Enabled 🗸	Auto	~	Auto	~	Disconnected	Disab	ed 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal	(100)		
Port 2	Enabled 🗸	Auto	~	Auto	~	100M/Full Duplex	Disab	ed 🛩	Disabled	Trunk	1,6	1	1/2	Unisolated	Normal	2.9W	Re-Power On	
Port 3	Enabled 🗸	Auto	~	Auto	~	Disconnected	Disab	ed 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			
Port 4	Enabled 🗸	Auto	~	Auto	~	100M/Full Duplex	Disab	ed 🗸	Disabled	Trunk	1,6	1	1/0	Unisolated	Normal			
Port 5	Enabled 🗸	Auto	~	Auto	~	Disconnected	Disab	ed 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			1.00
Port 6	Enabled 🐱	Auto	~	Auto	~	1000M/Full Duplex	Disab	ed 🗸	Disabled	Trunk	1,6	1	9/1	Unisolated	Normal			-
Port 7	Enabled 🗸	Auto	~	Auto	~	Disconnected	Disab	ed 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal	10.00		
Port 8	Enabled 🗸	Auto	~	Auto	*	Disconnected	Disab	ed 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			-
Port 9	Enabled 🗸	Auto	~	Auto	~	1000M/Full Duplex	Disab	ed 🗸	Disabled	Trunk	1,6	1	4/16	Unisolated	Normal	PoE Unsu	pported	-

To view the MAC and VLAN information of the downlink devices by clicking View:

						Port Status					VLAN					Po	E	
Port	Status		Conf	ig Status		Actual Status	Flow	Control(Config)	Flow Control(Actual)	Turne	Permit	Nativo	Rx/Tx Rate (kbps)	Isolation Status	Loop Status	PoF Power	Action	Downlink Device Search
	Status	Spee	d	Dupl	ex	Actual Status	HOW	control(coning)	How control(Actual)	Type	rennu	Nutive				rocrower	Action	
Port 1	Enabled V	Auto	~	Auto	~	Disconnected		Disabled 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			View
Port 2	Enabled 🗸	Auto	۲	Auto	~	100M/Full Duplex		Disabled 🗸	Disabled	Trunk	1,6	1	1/2	Unisolated	Norma	C:C4:70:AB:A2:	C3:6A>VLA	N ID:1 View
Port 3	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal		-	View
Port 4	Enabled 🗸	Auto	~	Auto	~	100M/Full Duplex		Disabled 🗸	Disabled	Trunk	1,6	1	1/0	Unisolated	Normal			View
Port 5	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled V	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			View
Port 6	Enabled 🗸	Auto	~	Auto	~	1000M/Full Duplex		Disabled 🐱	Disabled	Trunk	1,6	1	9/1	Unisolated	Normal			View
Port 7	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal		100	View
Port 8	Enabled 🗸	Auto	~	Auto	~	Disconnected		Disabled 🗸	Disabled	Trunk	1,6	1	0/0	Unisolated	Normal			View
Port 9	Enabled 🗸	Auto	~	Auto	~	1000M/Full Duplex		Disabled 🗸	Disabled	Trunk	1,6	1	4/16	Unisolated	Normal	PoE Unsu	pported	View

7.2.2 Monitoring

1.1 Switches

Appendix: Monitor

Reyee Cookbook

Ruíjie I iReyee		1 2	3 4 5 6 7 0 0			English 👻
Homepage			Downlink Uplink			
rstem Settings V			Collapse			
Ionitoring ^			Primary Device			
Switches	The current de	vice has been managed by the master device. I	Please click the IP address to manage the m	aster device.		
De tradición de la companya de		IP Address	SN		Model	
Port Statistics		<u>192.168.110.1</u>	H1PH7	9	EG105GW	
Cable Diagnostics			Switch List			
Loop Guard	Up to 16 switc	hes of the same management VLAN can be dis	covered.			
itch Settings 🛛 🗸	No.	IP Address	SN	Hostname	Model	
	1	192.168.110.3(Local)	CAPCOY	ES209GC-P	RG-ES209GC-P	
LAN Settings V						
oS Settings 🗸 🗸						
DE Settings						

Primary Device

When this switch is managed by master device in SON (some functions are not available, such as setting the device management password).

	Primary Device	
The current device has been managed by the master device. P	ease click the IP address to manage the master device.	
IP Address	SN	Model
192.168.110.1	H1PH7	EG105GW

The list displays the IP, SN and Model information of the master device in SON, click on the IP address can redirect to the web interface of the Master device.

Up to 16 switches	of the same management VLAN can be discovered.			
No.	IP Address	SN	Hostname	Model
1	192.168.110.3(Local)	CAPC	ES209GC-P	RG-ES209GC-P
2	<u>192.168.110.50</u>	CAQ	ruijie	RG-ES209GC-P

Switch List

The device can discover other ES switches that belong to the same management VLAN and display the IP, SN, Hostname and model information of other switches in the list. The number of discovered switches in a management VLAN varies with the switch models:

The following models can discover up to 32 switches in the management VLAN: RG-ES226GC-P, RG-ES218GC-P, RG-ES216GC, RG-ES216GC.

The following models can discover up to 16 switches in the management VLAN: RG-ES205C-P, RG-ES205GC-P, RG-ES209C-P, and RG-ES209GC-P.

Switch List

Up to 16 switc	hes of the same management VLAN can be dis	covered.		
No.	IP Address	SN	Hostname	Model
1	192.168.110.3(Local)	CAPCOV	ES209GC-P	RG-ES209GC-P

The first entry shows the information about the current device and other entries show information about the discovered devices. You can click the IP address to redirect to the eWeb management of a specific device (login is required).

1.2 Port Statistics

The Port Statistics page displays the statistics and status of device ports, such as port Rx/Tx rate and Rx/Tx packets.

Ruijie I Reyce							
Homepage				3 4 5 6 7	8 9 Uplink		
System Settings 🗸 🗸				Collar	ose		
Monitoring ^				Packet St	atistics		
	Port	Status	Connection Status	Rx/Tx Rate(kbps)	Rx/Tx Packets(KB)	Rx/Tx Success	Rx/Tx Failure
Switches	Port 1	Enabled	Connected	0/3	382465/990207	1195874/2336072	0/0
Durat Chatladian	Port 2	Enabled	Connected	0/3	382539/1174781	1597665/3300296	0/0
POIL Statistics	Port 3	Enabled	Disconnected	0/0	0/0	0/0	0/0
able Diagnostics	Port 4	Enabled	Connected	0/3	106360/141986	1073997/1200160	3/0
cubic biognostics	Port 5	Enabled	Disconnected	0/0	0/0	0/0	0/0
_oop Guard	Port 6	Enabled	Connected	0/7	277667/2218824	1403147/5078943	0/0
	Port 7	Enabled	Connected	6/9	2200438/1228512	4784667/5824942	0/0
tch Settings 🗸 🗸	Port 8	Enabled	Connected	0/3	47474/186374	194908/1770621	0/0
	Port 9	Enabled	Disconnected	0/0	0/0	0/0	0/0

Port: Displays the port number of the switch.

Status: Displays the status of the port.

Connection Status: Displays the connection status of the port.

Rx/Tx Rate (kbps): Displays the received and transmitted rates of the port.

Rx/Tx Packets (KB): Displays the traffic of receive and transmit packets of the port.

Rx/Tx Success: Displays the amount of traffic for packets successfully received and transmitted of the port.

Rx/Tx Failure: Displays the amount of traffic for packets that failed to be received and transmitted of this port.

1.3 Cable Diagnostics

Rujje Reyee				English • Logout
Homepage				
System Settings 🗸 🗸		Collapse		
Monitoring A		Cable Diagnostics		
Protection	Port	Test Result	Details	
Switches	Port 1	2	2	
Port Statistics	Port 2			
POL JULIUS	Port 3			
Cable Diagnostics	Port 4	5	5	
	Port 5			
Loop Guard	Port 6			
	Port 7		*	
Switch Settings v	Port 8			
	Port 9			
VLAN Settings 🗸 🗸		Start Start All		
QoS Settings 🗸 🗸				
PoE Settings				

Cable Diagnostics displays the cable condition of the corresponding port (e.g., whether the cable is short-circuited, disconnected, etc.), click the Start button to start cable diagnostics:

			1 m - 1 m - 1
	Port	Test Result	Details
	Port 1	u	
~	Port 2	Normal	The cable works well.
~	Port 3	Disconnected	Please check cable connection or replace the cable.
	Port 4	-	2 · · · ·
	Port 5	<u>1</u>	1
	Port 6	a	
	Port 7		
	Port 8	-	2
	Port 9	-	



1.4 Loop Guard

Ruijie Reyee		English • Logout
Homepage	1 2 3 4 5 6 7 8 9 	
System Settings 🗸 🗸	Collapse	
Monitoring A	Loop Guard	
Switches	The port causing the loop will be shut down. After the loop is removed, the port will be up automatically.	
Port Statistics	Enabled or C	
Cable Diagnostics		
Loop Guard		
Switch Settings \sim		
VLAN Settings \sim		
QoS Settings \sim		
PoE Settings		

After loop guard is enabled (which is disabled by default), the port causing a loop on the current device will be automatically disabled. After the loop is removed, the port is restored automatically.

	≣y∈∈																	English	✓ Logou
Homepage									5 6 7	8	9 Dink								
System Settings	~							Loop 100M / Full Duplex Disabled Flow Contro	ol Co	llapse									
Monitoring	~	VLAN	I Settings on 🔿	0					Devic	e Info									
			Model	RG-E	S209	GC-P		Firmwa	re Version:	ESW_1.	.0(1)B1P3	3,Release(07200415)						
Switch Settings	\sim		MAC Address	: EC:B9:70:E4:29:B5				SN:	CAQC1	GF02424	10								
IP Address:		: 0.0.0.0				Uptime:	# 00h 49min 00s												
VLAN Settings	~		Cloud Status	Unco	onnec	ted			Hostname:	ruijie			Edit						
QoS Settings v Port					Info								Refi	esh List					
PoF Settings		Port Status					tus VLAN				Pv/Tv			P	οE	Downlin			
r oʻz oʻeturigo		Port			Cont	ig Status	Actual	Flow	Flov	v	-			Rate	Isolation Status	Loop	PoE		Device
			Status	Spe	ed	Duplex	Status	Control(Config)	Control(A	Actual)	Type	Permit	Native	(kbps)			Power	Action	Search
		Port 1	Enabled 🗸	Auto	~	Auto 💊	100M/Full Duplex	Disabled 🗸	Disabl	led	Access	1	1	9/48	Unisolated	Normal	-		-
		Port 2	Enabled 🗸	Auto	~	Auto 💊	100M/Full Duplex	Disabled 🗸	Disabl	led	Access	1	1	0/0	Unisolated	Normal			
		Port 3	Enabled 🗸	Auto	~	Auto 💊	100M/Full Duplex	Disabled 🗸	Disabl	led	Access	1	1	0/0	Unisolated	Loop		-	
		Port 4	Enabled 🗸	Auto	~	Auto	Disconnected	Disabled 🗸	Disabl	led	Access	1	1	0/0	Unisolated	Normal			
		Port 5	Enabled 🗸	Auto	~	Auto	Disconnected	Disabled 🗸	Disabl	led	Access	1	1	0/0	Unisolated	Normal			~
		Port 6	Enabled 🗸	Auto	~	Auto	Disconnected	Disabled 🗸	Disabl	led	Access	1	1	0/0	Unisolated	Normal			

7.3 Reyee NBS Switch Monitor

7.3.1 Home

The Home module displays the basic information about the device and the switch ports.

Ruíjie SRcycc	test123 > NB	55200 0				English ~ 🛆 Ruijie Cloud	調 Download App	କୁ Wizard 🕞 Log Ou			
AsHome I VLAN I Monitor ✓ I Ports ✓ CL2 Multicast	Basic Infe Hostna Mo Sta Work Mo	D me: NB55200 & de: NB55200-245FP/8GT4XS tus: #Online de: Standalone & @ Panel View	MGMT IP: 192 MAC: 54: SN: GTF	MGMT IP: 192.168.110.74 Software Ver: ReyeeOS 1.54.1818 MAC: 54.165.176EA8F Systime: 202.204-13 17:17:24 SN: G1P Duration: 1 day 4 hours 21 minutes 12 seconds							
⊕L3 Interfaces	The flow da	ata will be updated every 5 minutes. © Refresh									
⊘ Security ∨			1 3 5 7 9	11 13 15 17 19 21 23	17 19 21 23						
Advanced ∨											
Solution			2 4 6 8 10	1 12 14 16 18 20 22 24	18 20 22 24 25 26 27	28					
System V	Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversiz Packets	ed Conflicts			
	Gi1	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	Gi2	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	Gi3	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	Gi4	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	GI5	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	GI6	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
	GI7	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			
Collapse	GI8	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0			

The **Basic Info** area allows you to configure the device name and the management IP address, and modify the work mode of devices.

Basic Info					
Hostname:	NBS5200 &	MGMT IP:	192.168.110.74 @	Software Ver:	ReyeeOS 1.54.1818
Model:	NBS5200-24SFP/8GT4XS	MAC:	54:16:51:76:EA:8F	Systime:	2022-04-15 10:46:19
Status:	• Online	SN:	G1R	Duration:	2 days 21 hours 49 minutes 57 seconds
Work Mode:	Standalone 🖉				

Click on the 🖉 button to the right of the Hostname to change the switch's Hostname.

Basic Info			
Hostname: NB55200 & T Model: NB55200 ACED/26774YS Edit Hostname NB55200 Por Cancel OK	MGMT IP: 192.168.110.74 MAC: 54:16:51:76:EA:8F SN: G1RH15Q004478	Software Ver: Reyee0S 1.54.1818 Systime: 2022-04-15 11:12:32 Duration: 2 days 22 hours 16 minutes 10 seconds	

Click on the ^(a) button to the right of the MGMT IP will redirect you to the device's management IP configuration screen.

Basic Info Hostname: NBS5200 & Model: NBS5200-245FP/8GT4XS Status: • Online Work Mode: Standalone &

Confi	gure management IP address
MGMT IP:	192.168.110.74 @
MAC:	54:16:51:76:EA:8F
SN:	G1RH15Q00447B

Software Ver: ReyeeOS 1.54.1818 Systime: 2022-04-15 11:14:29 Duration: 2 days 22 hours 18 minutes 7 seconds

Appendix: Monitor

Reyee Cookbook

Ruijie Rcycc	test123_1_Auto > NB55200 ●	English CRuijie Cloud 휇Download App
₆ ⁸ ₀Home	- MGMT IP	
∯VLAN	Configure network settings.	0
壆Monitor ~	Internet: DHCP ~	
@Ports ^	VLAN:	
Basic Settings	IP: 192.168.110.74	
Aggregate Ports Port Mirroring	Subnet Mask: 255255255.0	
Rate Limiting	Gateway: 192.168.110.1	
MGMT IP	DNS Server: 192.168.110.1	
☐L2 Multicast	Save	
⊕L3 Interfaces		
⊘ Security ~		
邑Advanced ~		
©₀Diagnostics ∽		
'∰ System ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
		(e 4)
<pre>«Collapse</pre>		

Click the 🖉 button to the right of Work Mode to switch the switch's work mode.

Rujje Rcycc	test123_1_Auto > NBS5200 0				English ~	Cloud	题Download App	🗟 Wizard	🕞 Log Out
▲Home 양VLAN 앞Monitor ✓ @ Ports ✓ ○ L2 Multicast	Basic Info Hostname: NBS5200 (2 Model: NBS5200-24SFP, Status: • Online Work Mode: Standalone (2 Port Info (2) Panel View	 Description: 1. The device IP address may change upon mode change. 2. Change the endpoint IP address and ping the device. 3. Enter the new IP address into the address bord the browser to access EVE8. 4. The system menu varies with different work modes. Self-Organizing ()) () 	F IP: 19 IAC: 54 SN: G1	92.168.110.74 Software Ver K41651.76648F Synthme 31RH15Q00447B Duration:	: ReyeeOS 1.54.1818 2022-04-15 11:16:43 2 days 22 hours 20 minut	es 21 seconds			
⊕L3 Interfaces ⊘ Security ~	The flow data will be updated ever	Network							
🗄 Advanced 🛛 👋			7	9 11 13 15 17 19 21 23 17 19 21 23					

The **Port Info** area displays the details of all ports.

Port Info @ P	anel View						
The flow data will	l be updated every 5 minutes. ©	Refresh					
Port	Pate	1 3 5 7 9 2 4 6 8 10	11 13 15 17 19 21 1 12 14 16 18 20 22 1 BV/TV Bytes	23 17 19 21 23	7 28	Corrupted/Oversized	Conflicts
C111			0.00/0.00	0.0	0/0	Packets	connecs
GITI	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
GI12	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Gi13	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
GI14	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Gi15	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
GI16	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Gi17	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
GI18 t	1000M	1/0	86.52M/26.60M	631391/177913	0/0	0/0	0
Gi19	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
GI20	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Total 28 10/page	e V < 1 2 3	> Go to page 2					

Port: Display the port number of the device.

Rate: Display the negotiation rate of the port when the port is Up.

Rx/Tx Speed (kbps): Display the received and transmit rates of the port.

Rx/Tx Bytes: Display the received and transmit traffic of the port.

Rx/Tx Packets: Display the number of packets received and transmitted by the port.

CRC/FCS Error Packets: Display the number of packets with CRC/FCS errors on the port.

Corrupted/Oversized Packets: Display the number of Corrupted/Oversized packets of the port.

Conflicts: Display the number of conflicts on the port, when the interface is negotiated in half-duplex mode, there may have packet receive and transmit conflicts.

Click **Panel View** to display the icon color and type of each port.

Port Info <a>O Par	el View						
Role	Status	© Refresh					
Fiber	10M/100M		1 13 15 17 19 21 23 1 13 15 17 19 21 23 1 14 16 18 20 22 24	17 19 21 23 1 2 2 2 18 20 22 24 25 26 27	28		
PoE PoE Error	Disconnected	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
Aggregate		0/0	0.00/0.00	0/0	0/0	0/0	0
		0/0	0.00/0.00	0/0	0/0	0/0	0

Move the cursor to the port icon on the port panel to display more information of the port.

Port Info 💿	Panel View							
The flow data w	vill be updated every 5 minutes. 🔾 Ref	resh						
		1 3 5 7 9 11 2 4 6 8 10 12	13 15 17 14 16 18	19 21 2: 20 22 24	17 19 21 23 17 19 21 23 18 20 22 24 118 20 22 24	25 26 27 28		
Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Status: Rate:	Connected 1000M	ts CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
Gi1	Disconnected	0/0	0.00/0.00	Flow:	↓ 86.33M ↑ 26.14M	0/0	0/0	0
Gi2	Disconnected	0/0	0.00/0.00	Attribute:	Copper	0/0	0/0	0
GI3	Disconnected	0/0	0.00/0.00		0/0	0/0	0/0	0

The flow data will be updated every 5 minutes, you can click **Refresh** above the port panel to obtain the latest port traffic and status information.



7.3.2 Monitor

1.1 Port Flow

The **Port Flow** module displays port flow data.

Appendix: Monitor

Reyee Cookbook

Ruíjie #Rcycc	test123_1_	Auto > NBS52	.00 Ø				English 🗸 🛆 Ruijie Cloud	畿Download App	zard 🕒 Log Out
ஃHome ≓?VLAN	Port In	nfo w data will be ur	vrlatari avanr 5 minutas 10 Refrech					Clear Selected	🖻 Clear All
문 Monitor ^ Port Flow		Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
Endpoints		Gi1 Gi2	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
□L2 Multicast		GI3	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
⊕L3 Interfaces		Gi4 Gi5	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
⊘ Security ~		Gi6	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
© Diagnostics ✓		GI7 GI8	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
System V		Gi9 Gi10	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Total 28	10/page V		io to page 1		ч, J	<i>v₁</i> 0	90	

Aggregate port flow will also be displayed. Traffic of an aggregate port is the sum of traffic of all member ports.

Batch Clearing Data

Select multiple entries in Port Info and click Clear Selected.

Port I	nfo						Clear Selected	Clear All
The flo	w data will be up	dated every 5 minutes. 🔾 Refresh						
	Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
	Gi11	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi12	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi13	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi14	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi15	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi16	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi17	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi18 🕇	1000M	6/2	96.23M/43.18M	695224/212954	0/0	0/0	0
	Gi19	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi20	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Total 28	10/page 🗸	< 1 2 3 >	Go to page 2					

The message "Clear operation succeeded." is displayed.

test123_1_	Auto > NBS5	200 🛛	Clear opera	ation succeeded.		English ~ 🛆 Ruijie Cloud	鬷Download App	izard 🕞 Log Out
Port Ir	1fo					1	首 Clear Selected	Clear All
The flo	w data will be u	updated every 5 minutes. O Refresh						
	Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
	Gi11	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi12	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi13	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi14	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi15	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi16	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi17	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi18 1	1000M	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi19	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	GI20	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Total 28	10/page ~	< 1 2 3 >	Go to page 2					

Clear All

Click **Clear All** to clear statistics of port traffic and other data.

Port I	nfo						🖻 Clear Selected	i Clear All
The flo	w data will be u	pdated every 5 minutes. 🜣 Refresh						
	Port	Rate	Rx/Tx Speed (kbps)	Rx/Tx Bytes	Rx/Tx Packets	CRC/FCS Error Packets	Corrupted/Oversized Packets	Conflicts
	Gi11	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi12	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi13	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi14	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi15	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi16	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	GI17	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	Gi18 🕇	1000M	2/68	0.00/0.00	0/0	0/0	0/0	0
	Gi19	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
	GI20	Disconnected	0/0	0.00/0.00	0/0	0/0	0/0	0
Total 28	10/page 🗸	< 1 2 3 >	Go to page 2					

1.2 End points /Clients

a) MAC List

The **MAC List** page displays the MAC addresses which are learned by the device, including dynamic and static MAC addresses.

Rujje	cc	test123_1_A	uto > NBS5200 🔮					English ~	CRuijie Cloud	讀Download App	∲ Wizard 🕞 Log Ou
& Home		MAC List	Static MAC Dynamic MAC	MAC Filter	Aging Time	ARP List					
a FVLAN 聖Monitor	~	MAC						Search by MAC	~ Exam	ple: 00:11:22:33:44:5	Q Search
Port Flow		Up to 16	5K entries can be added.								
Endpoints		No.	MAC			VLAN ID	Port			Туре	
Ports	~	1	4C:02:20:55:CC:F	7		1	Gi18			Dynamic	
○L2 Multicast		2	68:F7:28:CC:10:6	r		1	GI18			Dynamic	
Al 2 Interfaces		3	AC:E0:10:1E:34:4	1		1	Gi18			Dynamic	
Grounder aces		4	30:0D:9E:02:64:20	5		1	Gi18			Dynamic	
⊘ Security	~	5	C0:B8:E6:E6:8D:7	7		1	Gi18			Dynamic	
合 Advanced	~	6	30:0D:9E:E7:E9:1	5		1	Gi18			Dynamic	
Q Diagnostics	~	7	C0:B8:E6:9A:43:0	E		1	Gi18			Dynamic	
		8	C0:B8:E6:9A:43:01	5		1	Gi18			Dynamic	
-g: System	~	9	CC:2F:71:E2:4A:A	5		1	Gi18			Dynamic	
		10	30:0D:9E:D6:D3:A	6		ï	Gi18			Dynamic	
		Total 11	10/page > (1 2	> Go to page	1						

The MAC address capacity varies with the device, you can see above the list.

MAC List Stat	tic MAC Dynamic MAC MAC Filter	Aging Time ARP List		
MAC			Search by MAC	Example: 00:11:22:33:44:5 Q Search
Up to 16K ent	ries can be added.			
No.	MAC	VLAN ID	Port	Туре
1	4C:02:20:55:CC:F7	1	Gi18	Dynamic
2	68:F7:28:CC:10:61	1	Gi18	Dynamic
3	AC:E0:10:1E:34:41	1	Gi18	Dynamic

Select the search types (**Search by MAC**, **Search by VLAN**, or **Search by Port**), enter the term to be searched for, and click **Search** to filter MAC addresses that meet the search conditions.

Search by MAC

MAC				Search by MAC	4C:02:20:
Up to 16K en	ntries can be added.			Search by MAC	
No.	MAC	VLAN ID	Port	Search by VLAN Search by Port	Туре
1	4C:02:20	1	Gi18		Dynamic

Search by VLAN

MAC List	Static MAC Dynamic MAC MAC Filter A	ging Time ARP List		
MAC			Search by VLAN	C Search
Up to 10	6K entries can be added.			
No.	MAC	VLAN ID	Port	Туре
1	4C:02:20:55:CC:F7	1	Gi18	Dynamic
2	68:F7:28:CC:10:61	1	Gi18	Dynamic
3	AC:E0:10:1E:34:41	1	Gi18	Dynamic
4	30:0D:9E:02:64:2C	1	Gi18	Dynamic
5	C0:B8:E6:E6:8D:77	1	Gi18	Dynamic
6	30:0D:9E:E7:E9:15	1	Gi18	Dynamic
7	C0:B8:E6:9A:43:0E	1	Gi18	Dynamic
8	C0:88:E6:9A:43:0D	1	Gi18	Dynamic
9	CC:2F:71:E2:4A:A5	1	Gi18	Dynamic
10	30:0D:9E:D6:D3:A6	1	Gi18	Dynamic
Total 11	10/page < 1 2 > Go to page 1			

Search by Port

AN			S	earch by Port V Gi18 V Q Search
Up to 16K entr	ies can be added.			
No.	MAC	VLAN ID	Port	Туре
1	4C:02:20:55:CC:F7	1	Gi18	Dynamic
2	68:F7:28:CC:10:61	1	Gi18	Dynamic
3	AC:E0:10:1E:34:41	1	Gi18	Dynamic
4	30:0D:9E:02:64:2C	1	Gi18	Dynamic
5	C0:B8:E6:E6:8D:77	1	Gi18	Dynamic
6	30:0D:9E:E7:E9:15	1	Gi18	Dynamic
7	C0:B8:E6:9A:43:0E	1	Gi18	Dynamic
8	C0:B8:E6:9A:43:0D	1	Gi18	Dynamic
9	CC:2F:71:E2:4A:A5	1	Gi18	Dynamic
10	30:0D:9E:D6:D3:A6	1	Gi18	Dynamic

b) Static MAC

The **Static MAC** page displays the MAC-port binding relationship.

0.11													
6's Home													
≝VLAN		MAC List	Static MAC	Dynamic MAC	MAC Filter	Aging Time	ARP List						
图Monitor	^	() Stat Dese 802.	tic MAC cription: The switch 1x authentication.	n forwards packets ba	ased on the MAC a	iddress table. Bind	a static MAC add	ress with a port, and the pac	et destined for this addre	ss will be forwarded to the por	t. You can configure MAC addre	ss binding for a port enabled with	
Port Flow Endpoints		MAC Li	st									+ Add 🗊 Delete Selec	ted
@ Ports	~	Up to 2	56 entries can be a	dded.									
□L2 Multicast				Port			M	AC		VLAN ID		Action	
⊕L3 Interfaces								No I	ata				
[⊘] Security	~	Total 0	10/page 🗸	1 > G	So to page 1								
合 Advanced	~												
[©] ₀ Diagnostics	~												
System	\sim												

The switch forwards packets based on the MAC address table. Binding the static MAC address with a port, and the packet destined for this address will be forwarded to the port. You can configure the MAC address binding for a port enabled with 802.1x authentication.

Adding a static address

Click Add. In the displayed dialog box, enter the MAC address and VLAN, select a port, and click OK.

Ruijie IRcy	cc	test123_1_Auto > NBS5200 0		English 🗸 🛆 Ruijie Cloud 📓 Download App 🔮 Wizard 🔁 Log Out
_{e⁸5} Home		MACHER ConfigMAC Decomic MAC MACE	liter Asian Timo ADD List	
59 VLAN		MAC LIST STATE MAC Dynamic MAC MAC	nter Aging fille Are List	
圈Monitor		Static MAC Description: The switch forwards packets based on the 802.1x authentication.	Add ×	arded to the port. You can configure MAC address binding for a port enabled with
Port Flow		Lunary at	* MAC: AC:E0:10:1E:34:41	
Endpoints		MAC List	* VLAN ID- 1	+ Add Delete Selected
@ Ports		Up to 256 entries can be added.		
CL2 Multicast		Port	* Select Port:	D Action
@L3 Interfaces				
⊘ Security		Total 0 10/page V 1 Go to page		
合 Advanced			2 4 6 8 10 12 14 16 18 20 22 24 18 20 22 24 25 26	
Q Diagnostics			Deselect	
李 System			Cancel OK	

When the message "Add operation succeeded." is displayed, the MAC list is updated.

test123_1_Auto > NBS5200 0	Add operation succeeded.	English 🗸 🖄 Ruijie Clou	id 顓Download App 合 Wizard 🕞 Log Ou
MAC List Static MAC Dynamic MAC MAC Filter Aging Time	ARP List		
Static MAC Static	a static MAC address with a port, and the packet destined fo	r this address will be forwarded to the port. You can configure MAC add	dress binding for a port enabled with
MAC List			+ Add 🗇 Delete Selected
Up to 256 entries can be added.			
Port	MAC	VLAN ID	Action
Gi18	AC:E0:10:1E:34:41	1	Delete
Total 1 10/page ~ < 1 > Go to page 1			

Batch deleting static MAC addresses/Deleting a single static MAC address

Select the target MAC address in MAC List, and click **Delete** Selected. In the displayed confirmation box, click **OK**.

AAC List Static MAC Static MAC Description: The 802.1x authentica	C Dynamic MAC MAC Filter switch forwards packets based on the MA	Aging Time ARP List	ned for this address will be forwarded to the port. You can	configure MAC address binding for a port enabled with
MAC List				+ Add 🗇 Delete Selected
Up to 256 entries ca	n be added.			
	Port	MAC	VLAN ID	Action
	Gi18	AC:E0:10:1E:34:41	1	Delete
2	Gi19	68:F7:28:CC:10:61	1	Delete
2	Gi20	30:0D:9E:E7:E9:15	1	Delete
tal 3 10/page 🗸	< 1 > Go to page			

The message "Are you sure you want to delete the entry?" is displayed. In the displayed confirmation box, click **OK** in the displayed dialog box.

MAC List Static MAC	VAC List Static MAC Dynamic MAC MAC Filter Aging Time ARP List						
Static MAC Static MAC Static MAC Static MAC Static MAC address table. Bind a static MAC address with a port, and the packet destined for this address will be forwarded to the port. You can configure MAC address binding for a port enabled with B02.1x authentication.							
MAC List				+ Add 🗇 Delete Selected			
Up to 256 entries can	be added.						
	Port	MAC	VLAN ID	Action			
	Gi18	A07040453444	1	Delete			
	Gi19	Are you sure you want to delete the entry?	1	Delete			
	GI20	Cancel	1	Delete			
Total 3 10/page 🕥	Go to pay	je 1					

The message indicating successful deletion is displayed, and the MAC list is updated.

test123_1_Au	to > NBS5200 0			Delete operation succeeded.	English ~	☐ Ruijie Cloud	鯼Download App	👌 Wizard	🗗 Log Out
MAC List	Static MAC Dynamic MAC	MAC Filter	Aging Time	ARP List					
i Station Describer	c MAC iption : The switch forwards packets x authentication.	based on the MAC	address table. Bind	a static MAC address with a port, and the packet destined f	or this address will be forwarded to the port. You can co	onfigure MAC addre	ss binding for a port e	enabled with	
MAC Lis	t						+ Add	🖻 Delete Se	elected
Up to 25	6 entries can be added.								
	Port			MAC	VLAN ID		Action		
	Gi18			AC:E0:10:1E:34:41	1		Delete		
Total 1	D/page V < 🚹 🗦	Go to page 1							

Click **Delete** in the **Action** column. The message "Are you sure you want to delete the entry?" is displayed. In the displayed confirmation box, click **OK** in the displayed dialog box.

MAC List	Static MAC	Dynamic MAC	MAC Filter	Aging Time	ARP List			
Stat Dese 802.	tic MAC cription: The switch 1x authentication.	forwards packets b	ased on the MAC a	ddress table. Bind a	static MAC address with a port, and t	he packet destined for	this address will be forwarded to the port. You	can configure MAC address binding for a port enabled with
MAC Li	st							+ Add 🗇 Delete Selected
Up to 2	56 entries can be a	dded.						
		Port			MAC		VLAN ID	Action
		Gi18			AC-E0-40-4E-34-84		1	Delete
Total 1	10/page 🗸	1 2	Go to page 1	•	Are you sure you want to delete	the entry? Cancel OK		

The message "Delete operation succeeded." is displayed.

test123_1_Au	to > NBS5200 ♥			Delete operation succeeded.	English ~	CRuijie Cloud	鼢Download App	🗟 Wizard	🕞 Log Ou
MAC List	Static MAC Dynamic MAC	MAC Filter	Aging Time	ARP List					
i Stati Besc 802.1	c MAC iption : The switch forwards packets x authentication.	based on the MAC	address table. Bind	a static MAC address with a port, and the packet destined	for this address will be forwarded to the port. You can co	nfigure MAC addre	ss binding for a port	nabled with	
MAC Lis	t						+ Add	i Delete Si	elected
Up to 25	6 entries can be added.								
	Port			MAC	VLAN ID		Action		
				No Data					
Total 0 1	0/page 🗸 🤇 1 🗦	Go to page 1							

c) Dynamic MAC

The **Dynamic MAC** page displays dynamic MAC addresses learned by the device.

MAC List Static M	MAC Dynamic MAC MAC Filter Aging Time AF	RP List				
MAC List			Clear by MAC $\qquad \lor$	Example: 00:11:22:33:44:5	🗈 Clear	C Refresh
No.	MAC	VLAN ID		Port		
1	4C:02:20:55:CC:F7	1		Gi18		
2	68:F7:28:CC:10:61	1		Gi18		
3	AC:E0:10:1E:34:41	1		Gi18		
4	30:0D:9E:02:64:2C	1		Gi18		
5	C0:B8:E6:E6:8D:77	1		GI18		
6	30:0D:9E:E7:E9:15	1		Gi18		
7	C0:B8:E6:9A:43:0E	1		Gi18		
8	C0:B8:E6:9A:43:0D	1		Gi18		
9	A2:88:87:AD:12:7A	1		GI18		
10	CC:2F:71:E2:4A:A5	1		Gi18		
Total 12 10/page	✓ < 1 2 > Go to page 1					

Clear

Select the clear type (**Clear by MAC, Clear by Port,** or **Clear by VLAN**), enter the search term, and click **Clear** to clear MAC addresses that meet the clear conditions.

Clear by MAC

MAC List		Clea	ar by MAC \vee	68:F7:28:CC:10:61	🗎 Clear	C Refresh
No.	MAC	VLAN ID		Port		
1	4C:02:20:55:CC:F7	1		Gi18		
2	68:F7:28:CC:10:61	1		Gi18		
3	AC:E0:10:1E:34:41	1		Gi18		
4	30:0D:9E:02:64:2C	1		Gi18		
5	C0:B8:E6:E6:8D:77	1		Gi18		
6	30:0D:9E:E7:E9:15	1		Gi18		
7	C0:B8:E6:9A:43:0E	1		Gi18		
8	C0:B8:E6:9A:43:0D	1		Gi18		
9	A2:88:87:AD:12:7A	1		Gi18		
10	CC:2F:71:E2:4A:A5	1		Gi18		

Clear by Port

MAC List			Clear by Port V Gi3 V Clear Clear C Refresh
No.	MAC	VLAN ID	Port
1	4C:02:20:55:CC:F7	1	Gi18
2	AC:E0:10:1E:34:41	1	Gi18
3	30:0D:9E:02:64:2C	4	Gi18
4	C0:B8:E6:E6:8D:77	1	Gi18
5	30:0D:9E:E7:E9:15	1	Gi18
6	C0:B8:E6:9A:43:0E	1	Gi18
7	C0:B8:E6:9A:43:0D	1	Gi18
8	CC:2F:71:E2:4A:A5	1	Gi18
9	30:0D:9E:D6:D3:A6	1	Gi18
10	C4:70:AB:A2:C3:6A	1	Gi18

Clear by VLAN

MAC List		Clear by VLAN	V 10 Clear CRefresh
No.	MAC	VLAN ID	Port
1	4C:02:20:55:CC:F7	1	Gi18
2	AC:E0:10:1E:34:41	1	GI18
3	30:0D:9E:02:64:2C	1	GI18
4	C0:B8:E6:E6:8D:77	1	Gi18
5	30:0D:9E:E7:E9:15	1	Gi18
6	C0:B8:E6:9A:43:0E	1	Gi18
7	C0:B8:E6:9A:43:0D	1	GI18
8	CC:2F:71:E2:4A:A5	1	GI18
9	30:0D:9E:D6:D3:A6	1	Gi18
10	C4:70:AB:A2:C3:6A	1	Gi18

Refresh

Click **Refresh** to display the latest dynamic MAC addresses.

AC List			Clear by MAC V	Example: 00:11:22:33:44:5	Clear C Refres
No.	MAC	VLAN ID		Port	
1	4C:02:20:55:CC:F7	1		Gi18	
2	68:F7:28:CC:10:61	1		Gi18	
3	AC:E0:10:1E:34:41	1		Gi18	
4	30:0D:9E:02:64:2C	1		Gi18	
5	C0:B8:E6:E6:8D:77	1		Gi18	
6	30:0D:9E:E7:E9:15	1		Gi18	
7	C0:B8:E6:9A:43:0E	1		Gi18	
8	C0:B8:E6:9A:43:0D	1		Gi18	
9	CC:2F:71:E2:4A:A5	1		Gi18	
0	30:0D:9E:D6:D3:A6	1		Gi18	

d) MAC Filter

The MAC Filter page displays the MAC-port binding relationship to filter packets that meet the filter condition.

The switch forwards packets based on the MAC address table. If the packet containing the specified MAC address reaching to the VLAN, the packets will be discarded. You can configure MAC address filter to guard against an ARP attack.

Adding a MAC address to be filtered

Click Add. In the displayed dialog box, enter the MAC address and VLAN, and click OK.

MAC List Static MAC Dynamic MAC MAC	Filter Aging Time ARP List			
MAC Filter Description: The switch forwards packets based on t	h Add		×	rded. You can configure the MAC filter to guard against an ARP attack.
MAC List	* MAC: 68:F7:28:CC	10:61		+ Add
Up to 256 entries can be added.	* VLAN ID: 1			
МАС				Action
		Cancel	ОК	
Total 0 10/page > < 1 > Go to page	je 1			

The message "Add operation succeeded." is displayed and the MAC list is updated.

test123_1_Auto > NBS5200 O		 Add operation succeeded. 	English ~	ORuijie Cloud In Download App
MAC List Static MAC Dynan	nic MAC MAC Filter Aging Time	ARP List		
MAC Filter Description: The switch forward:	s packets based on the MAC address table. If a p	acket containing the specified MAC address reaches the VLA	N, the packet will be discarded. You can configure the M/	AC filter to guard against an ARP attack.
MAC List				+ Add 🗇 Delete Selected
Up to 256 entries can be added.				
	MAC	VLAN ID		Action
	68:F7:28:CC:10:61	1		Delete
Total 1 10/page 🖂 🚺	> Go to page 1			

Batch deleting MAC addresses/Deleting a single MAC address

Select the target MAC address, and click Delete Selected. In the displayed confirmation box, click OK.

MAC List Static MAC	Dynamic MAC MAC Filter Aging Time AR	P List	
MAC Filter Description: The sw	itch forwards packets based on the MAC address table. If a packet	containing the specified MAC address reaches the VLAN, the packet will be discarded. You can	configure the MAC filter to guard against an ARP attack.
MAC List			+ Add
Up to 256 entries can b	be added.		
•	MAC	VLAN ID	Action
	68:F7:28:CC:10:61	1	Delete
	C0:B8:E6:E6:8D:77	1	Delete
	30:0D:9E:E7:E9:15	1	Delete
Total 3 10/page v	Go to page 1		

The message "Are you sure you want to delete the entry?" is displayed. In the displayed confirmation box, click **OK** in the displayed dialog box.

Appendix: Monitor

Reyee Cookbook

MAC List	Static MAC Dynamic MAC MA	AC Filter Aging Time	ARP List					
Desc	MAC Filter Description: The switch forwards packets based on the MAC address table. If a packet containing the specified MAC address reaches the VLAN, the packet will be discarded. You can configure the MAC filter to guard against an ARP attack.							
MAC Li	t			+ Add 🖻 Delete Selected				
Up to 25	entries can be added.							
	MAC		VLAN ID	Action				
	68:F7:28:CC:10:	61	1	Delete				
	C0:88:E6:E6:8D:	:77	Are you sure you want to delete the entry?	Delete				
	30:0D:9E:E7:E9:	:15	Cancel	Delete				
Total 3	D/page -> C 1 > Go to p	age 1						

The message "Delete operation succeeded." is displayed and the MAC list is updated.

test123_1_A	est123_1_Auto > NB55200 0				Delete operation succeeded.		English ~	☐ Ruijie Cloud	鬷Download App	Wizard	🗗 Log O
MAC List	Static MAC	Dynamic MAC	MAC Filter	Aging Time	ARP List						
() MA	C Filter :ription: The switch	forwards packets bas	sed on the MAC	address table. If a p	packet containing the specified MAC address reaches the VL/	\N, the packet will be discarded. You can con	figure the N	IAC filter to guard	against an ARP attaci	5	
MAC Li	st								+ Add	📋 Delete S	elected
Up to 2	6 entries can be ad	dded.									
		MA	с		VLAN ID			A	ction		
		68:F7:28:C	C:1 <mark>0:</mark> 61		1			D	elete		
Total 1	10/page		to page 1								

Click Delete in the Action column.

MAC List	Static MAC Dynamic MAC	MAC Filter Aging Time	ARP List	
1 MA	C Filter ription: The switch forwards packets bas	sed on the MAC address table. If a pa	ket containing the specified MAC address reaches the VLAN, the packet will be discarded	. You can configure the MAC filter to guard against an ARP attack.
MAC Li	t			+ Add Delete Selected
Up to 2	6 entries can be added.			
	MA	с	VLAN ID	Action
	68:F7:28:C	C:10:61	1	Delete
Total 1	0/page 🗸 🤇 1 🔅 Go	o to page 1		

The message "Are you sure you want to delete the entry?" is displayed. In the displayed confirmation box, click **OK** in the displayed dialog box.

MAC List Static MAC Dyn	amic MAC MAC Filter Aging Tin	ne ARP List	
MAC Filter Description: The switch forward	rds packets based on the MAC address table.	If a packet containing the specified MAC address reaches the VLAN, the packet will be discarded. You can configure the MAC filter to g	guard against an ARP attack.
MAC List			+ Add
Up to 256 entries can be added.			
	MAC	VLAN ID	Action
	68:F7:28:CC:10:61	1	Delete
Total 1 10/page <	> Go to page 1	Are you sure you want to delete the entry? Cancel OK	

The message "Delete operation succeeded." is displayed.

test123_1_Auto → NB55200 0				Delete operation succeeded.		English ~	C Ruijie Cloud	鬷Download App	🔮 Wizard	🕞 Log Ou
MAC List Static MAC	Dynamic MAC	MAC Filter	Aging Time	ARP List						
MAC Filter Description: The switch	h forwards packets base	d on the MAC a	iddress table. If a p	acket containing the specified MAC address reach	es the VLAN, the packet will be discarded. You can	configure the	MAC filter to guard	against an ARP attac	k.	
MAC List								+ Add	🗈 Delete S	elected
Up to 256 entries can be a	added.									
	MAC			VLA	N ID		А	lction		
				No Data						
Total 0 10/page 🗸	< 1 > Go	to page 1								

e) Aging Time

The **Aging Time** page allows you to configure the aging time of MAC address learned by the device.

Ruíjie fRcycc	test123_1_Auto > NB55200 0	English ~ 🛆 Ruijie Cloud	觐Download App	⊕ Wizard [∃Log Out
⁰ _{6°8} Home	MAC List Static MAC Dynamic MAC MAC Filter Aging Time ARP List				
PMonitor 个	Aging Time				
Port Flow	* Aging Time (Sec): 300 Range: 10-630, 0 Indicates never aging.				
Endpoints	Save				
@Ports ~					

The aging time of the device ranges from 10 to 630 seconds. The value 0 indicates that the MAC addresses do not age.

Enter a valid aging time, and click **Save**. The message "Operation succeeded." is displayed, indicating that the aging time of MAC addresses learned by the device is successfully configured

test123_1_Auto → NB55200 0			Operation succeeded.	English	CRuijie Cloud	鬷Download App	🔮 Wizard	🕒 Log Out
MAC List Static MAC	Dynamic MAC MAC Filter	Aging Time	ARP List					
Aging Time								
* Aging Time (Sec):	360	Range: 10	-630. 0 indicates never aging.					
	Save							

f) ARP List

The Address Resolution Protocol (ARP) is used to bind MAC addresses to IP addresses. If you enter an IP address, you can obtain the MAC address bound to this IP address through ARP. Once MAC address is known, the relationship between the IP address and the MAC address is saved in the ARP cache of the device. With MAC addresses, the IP-based device can encapsulate frames at the link layer and then send the data frames to LANs. By default, IP and ARP packets on Ethernets are encapsulated in the Ethernet II type.

Ruijie	test123_1_Auto > NBS5200 0		English 🗸 🛆 R	Ruijie Cloud	譅Download App	\varTheta Wizard	⊡Log Out
83 Home	MAC List Static MAC Dynamic MAC MAC Filter	Aging Time ARP List					
딸 Monitor ^	ARP List Description: The device learns IP-MAC mapping of all device	is connected to its interfaces.					
Port Flow	ARP List		Search	:h by IP/MAC	Q	C Re	efresh
Endpoints	No.	IP	MAC				
@ Ports ∨	1 15	2.168.110.220	cc:2f:71:e2:4a:	:a5			
△L2 Multicast	2 1	92.168.110.1	30:0d:9e:e7:e9:	:15			
⊕L3 Interfaces	Total 2 10/page < 1 > Go to page 1						
⊘ Security ∽							

7.4 Reyee Access Point Monitor

The overview page displays **Memory Usage**, **Wireless Information**, **Device Information**, and **More** will be displayed in the Overview Page.

7.4.1 Memory Usage

Click Wireless->APs->Manage to manage the device after loging in the Eweb interface of Reyee AP.

品Overview	AP List						
Online Clients							
A Router	AP List Group:	All Groups Expand				IP/MAC/hostname/SN	I/SoftWare Ver Q
œWireless ^	Actio	on Hostname \$	IP ¢	MAC \$	Status 💠	Model \$	Clients \$
APs Wi-Fi	Sea Manage	ී Reboot RAP2260	192.168.110.4	10497-014031	Online	RAP2260(E)	0
ি • RAP2260(E)	Hostname: RAP2260 MAC:	SN:	1865	IP: 192.168.110.4	4		(1) Reboot
Overview Basics ~	Wireless 🎽 Advar	nced ~ Diagnostics ~	System ~				
Overview							
Memory Usage	%	Online Clients		Status: Online Duration: 5 da Systime: 2022-	ys 16 hours 03-25 09:4	s 33 minutes 25 secon 3:33	ds

The normal Memory Usage is between 40%-70%. The reason why it so high when there isn't clients is that memory usage is pre-allocated.

7.4.2 Device Status

The **Device Status** shows whether the device is online and how long it has been online. The "online" here is the SON feature of the Reyee device and has nothing to do with Ruijie Cloud.

Appendix: Monitor

Reyee Cookbook

	Hostname: RAP2260 MAC:	SN: C	IP: 192.168.110.4	(1) Reboot
Overview Basics ~	Wireless Y Advanc	ed \checkmark Diagnostics \checkmark System \checkmark		
Overview				
Memory Usage	%	Online Clients	Status: Online Duration: 5 days 16 hours 42 mir Systime: 2022-03-25 09:52:50	nutes 43 seconds

7.4.3 AP Working Mode

You can click Work Mode to switch the working mode of the device:

Device Det	ails		
Model:	RAP2260(E)	Hostname:	RAP2260 🖉
SN:	A CONFICTION P	MAC:	WCR40703614-597
Work Mode:	AP Z	Role:	Slave AP () (Master AC: 192.168.110.1)
Hardware Ver:	1.00	Software Ver:	ReyeeOS 1.75.2429

Description:

- 1. The device IP address may change upon mode change.
- 2. Change the endpoint IP address and ping the device.
- 3. Enter the new IP address into the address bar of the browser to access EWEB.
- 4. The system menu varies with different work modes.
- 5. The device will be restored and rebooted upon mode change.

Work Mode	AP	\vee	0
Self-Organizing Network	0		
	Save		

There are three types of working modes:

Router mode: NAT forwarding. The AP in the Router mode contains networking, network setup and some radio

features.

AP mode: Bridge forwarding.

Self-Organizing: If it is enabled, the device role will be displayed. If it is disabled, the device works in standalone mode.

7.4.4 View SON Status

Role

Master AP/AC: The device can manage downlink devices.

Slave AP/Device: The device has been managed by an AC.

Unknown: The device failed to join a Self-Organizing Network and works as a generic AP.

Standalone: The device has not joined a Self-Organizing Network.

🛕 Note

If the role is incorrect, please press F5 to refresh the page.

What is the priority of SON networking?

a) EG	(AC mode)	>EG	(router mode)	> AP	(router mode)	> AP	(AP mode)	> SW.
ч.	,	(7.0 111040)	~ L O	(loutor modo)	~ / u	(loator modo)	~ / u	(/ 1110000)	- 011.

b) Device CPU / Memory / others (AP radio number). Priority: The larger the parameter, the higher the priority.

c) Same model: Priority: The larger the parameter of MAC address, the higher the priority.

🛕 Note

Ruijie EG3230/3250 and Reyee ES switches cannot act as Masters.

7.4.5 Online Clients

➡ Ho■ RAP2260(E)	ostname: RAP2260 MAC: MAC:	SN:	IP: 192.168	.110.4	(U) Reboot
Overview Basics ~ W	'ireless ~ Advanced ~	Diagnostics 🐃 System 🐃			
Overview					
Memory Usage 53%	Onlin	e Clients O	Status: Or Duration: Systime: 2	line 5 days 17 hours 5 minutes 48 second: 1022-03-25 10:15:55	s

7.4.6 Device Info

Log in to the Eweb interface of the device and click **Overview** to check the device information.

욺Overview				
		Device Info		Setup>
Online Clients			Hostname: RAP2260	
AL Router		(\hat{z})	SN: 102 168 110 4	
		• RAP2260(E)	MAC:	
Wireless	\sim		Software Ver: ReyeeOS 1.75.2429	
2 Switches				

7.4.7 Wireless Info

Log in to the Eweb interface of the device and click Wireless -> Aps -> Manage to check the wireless information.

Overview Ba	sics \checkmark Wireless \checkmark	Advanced $^{\vee}$	Diagnostics \checkmark	System $^{\vee}$				
Perice Dea	4113							
Model:	RAP2260(E)				Hostname:	RAP2260 🖉		
SN:	G1QH6WX000534				MAC:	EC:B9:70:23:	A4:97	
Work Mode:	AP 2				Role:	Slave AP 0	(Master AC: 19	2.168.110.1)
Hardware Ver:	1.00				Software Ver:	ReyeeOS 1.7	5.2429	
Wi-Fi								
Primary Se	Wi-Fi: RAP2 ecurity: Yes			((1-	Guest Wi-Fi Security	Guest_APP-1 Yes		

7.4.8 Interface Details

Log in to the Eweb interface of the device and click Wireless->Aps->Manage to check the interface details.

Interface Details	
Connected Disconnected	Rate:1000M PoE: Enabled (PD)
	WAN LAN
	192.168.110.4

7.5 Reyee Mesh Wi-Fi Router Monitor

7.5.1 Overview

The overview page displays the local connection situation and information of **Device Details**, **Wi-Fi** and **Interface Details**. The information of download speed, upload speed, local device and connected clients is displayed on the top of this page. The **Device Details** includes the model, Host name, SN, MAC, etc. The **Interface Details** displays the connection of WAN and LAN.

Ruij	jie #Reyee		1 Home	Endpoints	Intern	et	€ Wi-Fi	- - More		English ~	8 2	٩	8
	Internet	<u>↑</u> ↓	85.37Kbps 1.36Mbps		EW1200G-	J - PRO		Wireless wired	1 • Clients	+ Add			
	Device Details Model: EW1200G-PRO MAC: Hardware Ver:			Hostname: p Duration: 2 Software Ver: #	1 days 17 hours	58 minutes 28 se	conds	SN: 1 Systime: 2022-03-17 16:51:01					
	Primary Wi-Fi: testssid Security: No				((1-	Guest Wi-Fi: O							
	Connected In Disconnected			WA 172.26	N LAN3 5.104 15	LAN2 LAN 22.168.110.1	1						

7.5.2 Endpoints

This page displays all connected endpoints in this network, including wired users and wireless users. The Clients module allows you to bind the static IP, manage blocked time and block WLAN clients.

Ruíjíe I ® Reyee	1 Home	Endpoints	Internet	(Wi-Fi	-B- -B- More	English ~		8
<i>i</i> Endpoints The client list includes online client	nts and blocked clien	its. The client going offlin	e will not disappear imr	nediately. Instead, the clie	nt will stay in the list for three r	nore minutes.		
Endpoints	Search	by IP/MAC/Username	C Refresh	Blocked Time Man	agement Blocked WI	AN Clients Management		
Username/Type		IP/N	IAC		Blocked Time	Action \$		
D .		192.168.110.1	47 69	09:30-11:30 Wednesday)	×		
SG Detail		- 1986-19	7 Unbinded	You have se + Add Bloc	t 1 blocked time. ked Time	DIOCK		
USER-20191214JF		192.168.110	47 69 Unbinded	Not Set (No + Add Bloc	time is blocked.) ked Time	Wired Client		
< 1 > 10/page ~						Total 2		

Click Blocked Time Management to customize the time to block users

Blocke	ed Time Management			×
Bloc	ked Time List		+ Add 🗇 D	elete Selected
Set a	a time to prevent clients accessing the Internet. Up	o to 32 entries can be added.		
	Blocked Time	Blocked MAC	Remark	Action
	00:00-23:59 Monday Tuesday Wednesday Thursday Friday	ĵ	test	Edit Delete
	09:30-11:30 Wednesday		app_c,,, F	Edit Delete
<	1 > 10/page ~			Total 2

Add Rule		×
Blocked Time	Custom	
* Date	Please Select Day ~	
* Time	© 18:54 - © 19:54	
Remark	USER-20191214JF	
	Cancel	ОК

Click **Blocked WLAN Clients Management** and add the Mac address to prevent WLAN users from connecting the SSID.

Blocked WLAN Clients + Add 10 Up to 30 members can be added.	
Up to 30 members can be added.	Delete Selected
MAC Remark Acti	on
No Data	
< 1 > 10/page >	Total 0
Blocked WLAN Clients Management	×
Blocked WLAN Clients + Add	Delete Selected
Up to 30 members can be added.	
MAC Remark Activ	on
No Data	
	Total 0
< 1 > 10/page >	
< 1 > 10/page ~	
< 1 > 10/page ~	
< 1 > 10/page ~	
< 1 > 10/page <	

7.5.3 Internet

This page displays the ways which device access the internet, including PPPoE, DHCP and Static IP.

Rujje	1 Home	Endpoints	Internet	(Wi-Fi	-o- -o- More	English ~	٩	8
	Internet:				Online (DHCP)			
	PPPoE		DHCP		Static IP			
		Dynami	cally Assigned IP A	Address				
	IP 172.26.5.104							
	Subnet Mask 255.255.252.0							
	Gateway 172.26.4.1							
	DNS Server 192.168.58.110 192.168	.58.94						
			Save					

DHCP: The router detects whether the IP address can be abtained via DHCP by default. If the router connects to the Internet successfully, you can click **Next** without entering an account.

PPPoE: Click PPPoE, and enter the username, password, and service name. Click Next.

Static IP: Enter the IP address, subnet mask, gateway, and DNS server, and click Next.

7.6 Reyee Wireless Bridge Monitor

7.6.1 Overview

VCR and Camera

There are a pair of devices of EST bridges which can be paired automatically with each other after power-on. You can also manually pair the devices by setting up a WDS network.

In a paired WDS group, bridges can work in access point (AP) or Customer Premises Equipment (CPE) mode

VCR end (AP): A bridge sending bridging signals is generally connected to the VCR end in the surveillance room. A WDS group can contain at most one AP can be contained at most in a WDS Group.

Camera end (CPE): A bridge that enables customers to access ISP's communication services is generally connected to the camera end. A WDS group can contain multiple CPEs.

a) Switching VCR and Camera Mode

If a VCR fails, you replace it and switch the new device to NVR (AP). If multiple cameras (CPE) are required, a device newly joining the WDS group needs switch it to the Camera (CPE).

(1) You can check the current mode in the upper right corner of the Web page and click Pair Again to switch the mode.

ŝRcycc ≡	English VCR (AP) & Pair Again Story Out
Alarm	~
Configuration is uninitialized.	
Hostname Not Set: 1. @	
Country/Region: China (CN) 0	
Time Zone: (GMT+8:00)Asia/Shanghai @	
Network error	
Radar Signal Interference Alarm 1 Suggested Actions	

(2) In the displayed dialog box, it shows the current pairing information, including Country/Region, Pairing Status, **Work Mode** and **WDS SSID**, click **Start** to enter the next step.

Note	×
• You can reset the device to restore default pairing status.	
Country/Region: China (CN)	
Pairing Status: Default	
Work Mode: VCR (AP)	
WDS SSID: @Ruijie-wds-642c	
Custom:	
 Support one-to-many (one AP to many CPEs). Replace the paired device. 	
Start	

(3) Select your Country/Region and click Next.

	Country/Region	×
The country/region	you select here must	be the same as
he country/region of	of the WDS network.	
he country/region c	China (CN)	~

(4) Change the work mode to VCR(AP) or Camera(CPE).

1	Node Switchover	
Work Mode:	VCR (AP)	^
Drovious	VCR (AP)	1

After you changed the work mode, the device will reboot, then you can see its mode has been changed after device reboot. Therefore, exercise caution when performing this operation.



Alarm

When bridges fail or lack some necessary security configuration, the system prompts key alarms about the bridges on the homepage, so that users can handle the exceptions promptly.

C Overview		• Alarm
💮 LAN		Configuration is uninitialized.
		Hostname Not Set: 1.
S Wireless	0	Country/Region: China (CN) 🛛
		Network error
& Diagnostics	÷.	Radar Signal Interference Alarm 1 Suggested Actions

a) Device Name Is Not Modified

Modifying device names can help you better distinguish each bridge. It is recommended to modify the default device name under the normal situation.

b) Default Admin Password Is Still Used

For the device and network security, you are advised to configure the admin password for the network to prevent the login of unauthorized users. Click here to configure the admin password for the network.

Alarm

Configuration is uninitialized. Hostname Not Set: 2 . Admin Password Not Set: 1 . Click here to change the password. The network is using the default password. For security, please change the netw Country/Region: China (CN) Time Zone: (GMT+8:00)Asia/Shanghai Network error Cable Connection Error: 1 . Suggested Actions Radar Signal Interference Alarm 1 Suggested Actions

🛕 Note

The admin password is used to log in to the web page of any device in the network. Therefore, please keep your admin password in mind. If you forget the admin password, you also can restore factory settings.

If there is an unbridged device in the network, the function of configuring the admin password will be disabled.

c) Default WDS Password Is Still Used by All Devices

The default WDS passwords of devices of the same model is the same. Changing the WDS password can prevent others from illegally accessing the network by using a device of the same model. Click Click here to configure WDS Password, enter the new password, and click Save to change the WDS password for the entire network.

Alarm	
Configuration is uninitialized.	
Hostname Not Set: 2 . 0	
Admin Password Not Set: 1 . Click here to change the password.	
The network is using the default password. For security, please change the network WDS Password	Click here to configure WDS Password

Note:

0



When configuring the WDS password for the entire network, ensure that all devices are online. Otherwise, WDS passwords of the devices will be inconsistent.

Configuring the WDS password for the entire network will reconnect all devices in the network. Therefore, exercise caution when performing this operation.

If there is an unbridged device in the network, the function of configuring the WDS password for the entire network will be disabled.

d) Network Cable Is Disconnected or Incorrectly Connected

Hover the cursor over the orange number of the prompt to display the alarm details. Click the suggested action to check the solution.



e) Latency Is High or Bandwidth Is Insufficient

First, check whether the device latency is too high. If yes, the interference in the environment may be severe. Then, you are advised to change the channel with a smaller interference. If not, increase the channel width.

To check whether the latency is too high, perform as follows: Hover the cursor over the orange number of the prompt to display all WDS groups, and click a group to display the details. On the **Overview** page, check whether **Latency** is **Freeze**. If so, the latency is too high. Otherwise, the latency is normal.

In CPE mode, the local channel and channel width are consistent with the peer channel and channel width. You are only allowed to configure the transmit power and distance.

7.6.2 WDS Group Info

Choose **Overview >WDS Group Info**. Displayed WDS group information includes the number of APs and CPEs in the group, current working channel, SSID, latency, interference, wireless bandwidth and quality, RSSI and quality, data rate, real-time traffic, and uptime. Hover the cursor over to view the detailed information of every item.

A Note:

AP is at the NVR end, while CPE is at the camera end.

N/							
WDS Group1							
AP: 1 . (TestVCR)	Channel :40		Latency (): Fluent(1) Jitter(0) Freeze(0)	Bandwidth (): Good(1)	Medium(0) Poor(0)	
CPE: 1 . (Online: 1 , Offline: 0)	WDS SSID :@Ruijie-wds-642c		Interference (): Good(1) Mer	dium(0) Poor(0)	RSSI (): Good(1) Media	um(0) Poor(0)	
		Strong Signal: -	Medium Signal: 🗕 Po	or Signal: 🛑			
VCR (AP)						⇔ Camera (CPE)	
FestVCR 🖉 🍥 🗸		Latency 3ms Ra	te 400Mbps 400Mbps Flow	→ 9.76Kbps ← 7.32Kbps	RSSI -48db Uptime 43Min40Sec	TestCPE ℓ ► 16 🕸 ∨	
MAC: 30:00:99:02:64:2c						MAC: 30:00.99:06:03:86	

1.1 Password

The login password configured here applied to all EST devices in the network.

Password			×
* Password		\odot	
* Confirm Password		\odot	
	Save		

🛕 Note

When configuring the WDS password for the entire network, ensure that all devices in the network are online. Otherwise, the WDS passwords of the devices will be inconsistent. Configuring the WDS password for the entire network will reconnect all devices in the network. Therefore, exercise caution when performing this operation. If there is an unbridged device in the network, the WDS password cannot be configured.

1.2 IP Allocation

When a large number of devices in the network require static IP addresses, you can use **IP Allocation** to automatically allocate a static IP address for each device. Click **IP Allocation**, set **Internet** to **Static IP Address**, set **Start IP Address**, **Subnet Mask**, **Gateway**, and **DNS Server**, and click **OK**.

×

IP Allocation



🛕 Note

The Start IP Address cannot be in the same network segment as the current IP address. Otherwise, the configuration will fail. After the configuration, the device IP address will change, and the device web page cannot be accessed. You need to enter the new IP address in the browser address bar and ensure that the IP addresses of the management computer and the device are in the same network segment. If they are not in the same network segment, reconfigure the IP address of the management computer.

When a large number of devices in the network require dynamic IP addresses, you can configure dynamic IP addresses (DHCP) for the entire network so that each device can dynamically obtain an IP address. Set Internet to DHCP, and click OK.

	IP Allo	cation	×
 Assig 	gn DHCP-assigned I	IP addresses to all devices	S.
IP Assignment	DHCP	~	
	DHCP does not req	uire an account.	
	ОК		

1.3 SSID

It indicates configure an SSID for all EST devices in the network. The SSID is disabled by default and users cannot manage devices by accessing WiFi.

SSID Settings		×
Enable WiFi		
* SSID:	@Ruijie-642C	
Security:	Open ~	
Hide SSID:	(The SSID must be manually entered exactly.)	
	Save	

The default device management service set identifier (SSID) is @Ruijie-bXXXX. (XXXX is the last four digits of the MAC address of each device, and the default management SSID varies with devices.) Click SSID on the page to set the same management SSID and password for all bridges in the LAN.

Enable WiFi: Choose whether to enable the management Wi-Fi for all devices in the network.

SSID: The SSID is the name of the management Wi-Fi network.

Security: The following encryption types are available: Open, WPA-PSK, WPA2-PSK, and WPA_WPA2-PSK. You are advised to choose WPA_WPA2-PSK and set the password to strengthen the security.

Hide SSID: When this function is enabled, mobile phones or computers cannot find the Wi-Fi name, and users need to manually enter the correct name and password. This can prevent Wi-Fi from being accessed by unauthorized users and can strengthen the security.

AP: it indicates the number of EST with VCR mode in this group, there can only be one EST as AP in group.

CPE: it indicates the number of ESTs with CPE mode in this group. EST310 supports one to five bridging. EST350 supports to one to three bridging.

Channel: it displays the channel for WDS SSID which only supports 5G channel.

Latency: it displays the stability of bridges in this group, including Fluent, Jitter and Freeze. You can click the icon to see the exact latency number of all CPEs.



Bandwidth: it displays the transmission rate of all bridges in this group, including Good, Medium and Poor. You can click the icon to see the exact bandwidth number of all CPEs.

	Hostname	MAC	Bandwidth	
	TestCPE	30:0d:9e:d6:d3:a6	378Mbps	2
(0)	Freeze(0)	Bandwidth (): Good(1)	Medium(0) Poor(0)	

WDS SSID: it displays the name of WDS SSID.

Interference: it indicates the interference status of all bridges in this group, including Good, Medium and Poor. You can click the icon to see the exact air interface utilization of all CPEs.

Hostname	MAC	Air Interface Utilization
TestCPE	30:0d:9e:d6:d3:a6	1%
	Interference @: Good(1)	Medium(0) Poor

RSSI: it displays the connected signal of all bridges in this group, including Good, Medium and Poor. You can click the button to see the exact RSSI of all CPEs.



1.4 Displaying the Information about a Single Device

Choose Overview> WDS Group Info> NVR (AP)/Camera (CPE)

Click the icon of a device to display the basic information about the device in the right panel of the page, including the hostname, uptime, online status, model, SN, MAC address, software and hardware versions, IP address, subnet mask, LAN port status, noise floor/utilization, distance, channel, transmit power, channel width, RSSI, and band.

WDS Group Info WDS Groups : 1						Device: Grou	p 1 / AP / TestVC	CR \vee (Select a devic	e to view its details)
WDS Group1					-	Setup: LAN Lock Status: Lo	WDS Rebo	xot	
AP: 1 . (TestVCR) CPE: 1 . (Online: 1 , Offline: 0)	Channel :40 WDS SSID :@Ruijie-wds-642c		Latency (): Fluent(1) Ji Interference (): Good(1)	ter(0) Freeze(0) Medium(0) Poor(0)	Ban) RSS		WDS SSID Uptime	TestVCR 2 01Hr27Min39Sec Connected	
VCR (AP)		Strong Signal: 📥	Medium Signal: —	Poor Signal: 🛑		sys	Model : SN : Software Ver : Hardware Ver	EST310 CAN90TZ04553C AP_3.0(1)B2P28,Releas 2.00	e(07220919)
		Latency 2ms Rate	→ 360Mbps ← 243Mbps Flow	→ 8.56Kbps ← 7.89Kbps	RSSI -51 Uptime 0		MAC	30:0d:9e:02:64:2c	
ESTBID IP: 192.168.110.206 Online					-	LAN	IP Address Subnet Mask LAN0 :	192.168.110.206 255.255.255.0 100baseT/Full-Duplex	
						WI-FI	Noise Floor/Ur Distance : Channel : Transmit Pow Channel Widtt RSSI : Band :	tilization: -103 dBm / 19 1000M 40 er: 27dBm h: - - 5.8G	0