

# Ruijie Reyee App 7.x

Implementation Cookbook



Document Version: V1.0 Date: 2023-06-16 Copyright © 2023 Ruijie Networks

### Copyright

Copyright © 2023 Ruijie Networks

All rights are reserved in this document and this statement.

Without the prior written consent of Ruijie Networks, any organization or individual shall not reproduce, extract, back up, modify, or propagate the content of this document in any manner or in any form, or translate it into other languages or use some or all parts of the document for commercial purposes.



Reyce and other Ruijie networks logos are trademarks of Ruijie Networks.

All other trademarks or registered trademarks mentioned in this document are owned by their respective owners.

#### Disclaimer

The products, services, or features you purchase are subject to commercial contracts and terms, and some or all of the products, services, or features described in this document may not be available for you to purchase or use. Except for the agreement in the contract, Ruijie Networks makes no explicit or implicit statements or warranties with respect to the content of this document.

The content of this document will be updated from time to time due to product version upgrades or other reasons, Ruijie Networks reserves the right to modify the content of the document without any notice or prompt.

This manual is designed merely as a user guide. Ruijie Networks has tried its best to ensure the accuracy and reliability of the content when compiling this manual, but it does not guarantee that the content of the manual is completely free of errors or omissions, and all the information in this manual does not constitute any explicit or implicit warranties.

# Preface

## Intended Audience

This document is intended for:

- Network engineers
- Technical support and service engineers
- Network administrators

## **Technical Support**

- Official website of Ruijie Reyee: https://www.ruijienetworks.com/products/reyee
- Technical support website: <u>https://www.ruijienetworks.com/support</u>
- Case portal: <u>https://caseportal.ruijienetworks.com</u>
- Community: https://community.ruijienetworks.com
- Technical support email: service rj@ruijienetworks.com

### Conventions

#### 1. GUI Symbols

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

#### U 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.

### 🛕 Note

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

#### Instruction

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

#### Specification

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

### 3. 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.

# **1** Product Introduction

Ruijie Reyee App is Ruijie's official application that can manage your devices more conveniently. For example, you can use the app to check the number of devices connected to your network and define rules for devices' Internet access.

Ruijie Reyee App is a powerful tool that allows you to quickly deploy your wireless network in only 1 minute by scanning the QR code on devices. You can easily add devices, configure Wi-Fi, and monitor the network status, topology, and alarms.

Ruijie Reyee App contains the following functional modules:

- SaleForce: You can choose required Ruijie products and compare them with counterparts.
- **Product:** displays all major products of Ruijie, including APs, switches, and gateways. You can quickly select required models based on key features of products.
- **Project**: You can create a project and manage devices in the project.
- **Community**: displays many newly released tools that are easy to use, FAQ, and tutorial and inspection, which help you acquire Wi-Fi deployment and troubleshooting skills.
- My: You can create the account and password, and submit logs.

# 2 Quick Start

# 2.1 Registering an Account of Ruijie Reyee App

(1) Download and install the latest version of Ruijie Reyee App through the official channel.

For example, scan the QR code to download it.



(2) Open Ruijie Reyee App and tap Sign up to register an account.

19:04 🖸	7,00 <b>100 41</b> He 19,all 3	4%≘
<	Registration	
	is determined by country/region. Please ente correctly, or the device may fail to go online.	er your
Country/Regi	ion *	
China		
Email *	Email	
Password *	5-12 characters	5444
I ha	we read and agreed to the Privacy Policy	c
	Sign up	
	Already have an account? Login	

- (3) Select your region, enter your email address and password, and select I have read and agreed to the Privacy Policy.
- (4) Tap Sign up.

<	Registration	
	rmined by country/region. Please tly, or the device may fail to go onl	
Country/Region *		
China Hong Kong		
Email *		
7 2408@gmal	.com	
Password *		
		7
🔽 l have re	ad and agreed to the Privacy Pr	olicy
	Sign up	
Alread	dy have an account? Login	

# 2.2 Logging In

(1) Open Ruijie Reyee App.

	$\frown$	
	Ruijie Cloud	
	Please enter the Email.	
	Please enter the password.	~
orgot	password?	Sign up

- (2) Enter the account of Ruijie Reyee App and select I have read and agreed to the Privacy Policy.
- (3) Tap Login.

The home page is displayed.

# 2.3 Quick Provisioning

# 2.3.1 Provisioning Reyee Devices Quickly

(1) Power on all the devices. The Self-Organizing Network (SON) will be created successfully.



(2) Click Start to create a project.

11:26 7			al 🗢 🛙	•
<	Cr	eate Project		
2 C C C C C C C	ake sure th		nfiguration preparations a	
WLAN 1. Finish ca	Wireless		all devices, and	đ
wait for 3 r	mins.			
~		0	0	
-	3	Wait f	or 3 min	S
		Vait fo	m" is sent out,	s
		/i-Fi "@Ruijie-r	m" is sent out,	s
		/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I	/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I Wi-Fi	/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I Wi-Fi	/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I Wi-Fi	/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I Wi-Fi	/i-Fi "@Ruijie-r	m" is sent out,	s
SON(Self-	Organizing I Wi-Fi	/i-Fi "@Ruijie-r	m" is sent out,	S

(3) Open Settings > WLAN on your phone, and connect to the default SSID @Reyee-sXXXX or @ReyeemXXXX.





If there is only one AP in the network, connect to Wi-Fi with the name starting with @Ruijie-sxxxx.

If multiple APs are deployed on the network, connect to Wi-Fi with the name starting with @Ruijie-sxxxx.

(4) After the devices are connected to Wi-Fi, they will be detected on the network.

11:26 7		al 🕈 👀
<	Detect Device	
	265	
	Detecting Please wait.	

Configure the project name, management password, and scenario.



(5) Configure uplink settings and select the Internet connection mode of a WAN.

11:27 🛪		al 🗢 👀
<	Basic Config	
Project Config	g Internet Config	O Wi-Fi Config
Single ISF	Link: WAN0	
Internet Conne	ection of Link 1 (con	nect to WAN0)
Internet Conr	nection*	
DHCP		~
802.1Q Tag		
O Dual ISP I	inks: WAN0 and W	AN1
	Next	

(6) Configure the SSID, password, and country code.



(7) Display all detected devices in the topology.

11:26 🛪	al 🕈 🕪
<	Detect Device
Detect 3 The devices t	devices hat support SON are displayed below.
	ECTIONA-P ECTIONA-P
	Topo is incomplete? ~
Detect A	gain Start Config

# 2.3.2 Provisioning Reyee EGs of the Version Later Than ReyeeOS 1.202 Quickly

(1) After the project is created, a popup window will be displayed to guide you through the quick setup process. The setup process only has three steps: **Network Planning**, **Application Policy**, and **VPN Setting**.



(2) **Network Planning** enables you to add wired and wireless networks, perform portal configurations, and limit bandwidth per user.



(3) **Application Policy** supports three policy types: blocking, speed limit, and priority setting.

#### Quick Start



(4) VPN Setting supports four Virtual Private Network (VPN) types: open VPN, Layer Two Tunneling Protocol (L2TP) over Internet Protocol Security (IPsec), L2TP, and Point-to-Point Tunneling Protocol (PPTP). Only Reyee EG200 series and EG300 series support open VPN. A VPN setup guide is provided on the VPN page.

9

Quick Start



< Sutisai	n EG Reboot	🕂 :	< V	PN Setting	?	< .	VPN Login Guid	e
<u>角</u> Office(B)	OD) Explorar_Koh_Ph	angan	VPN Server			L2TP	PPTP	Open VPN
Online dev	vices 19 • Offline 2		VPN Server			Ś		
🛓 ІТМ.К	Share: 2023.05.29	Configurable	Open VPN		>	iPhone	Android	Win10
	Device Network	&	Protocol Server IP/DDNS IP Pool	UDP 192.168.110.1 10.80.12.0/24		-	Up a VPN on iPho	
						<ul><li>(1) Unlock your iF</li><li>(2) Scroll down ar</li></ul>	hone, and go to Set	tings.
			L2TP	100 1 / 0 110 1	>	No SIM 🗢	12:09	42%
			Server IP/DDNS IP Pool	192.168.110.1 10.70.17.2-10.70.17.254			Settings	
😉 Work	space	Q						
Basic	Advanced	Scenario	Certificate Dow	nload URL Down	nload	Notifica	tions	>
Gateway&S	witch		VPN Online Use	ers	>	Sounds	& Haptics	>
63		Ċ1				C Do Not	Disturb	>
Flow&App Control	WAN Config	LAN Config				Screen	Time	>
[CC00]	出	щ,				Genera	I	1 >
DDNS	DHCP Snooping	Loop Prevention				Control	Center	>
							Share	
VPN			=	6 D		=	$\Box$	1

# 2.3.3 Provisioning Non-Reyee Devices Quickly

(1) Click Create a Project and tap Scan QR-code.



(2) Scan the QR code behind the device



(3) Add a device by tapping manually enter.

<	Add Device
Type*	АР
Model*	RAP2260(E)
SN*	G1Qł
MAC*	EC
Name	
	Add
Sca	to Add Manually Enter

(4) Configure the project name, management password, SSID, and scenario.



## 2.3.4 Demo Project

A demo project can be created in two ways:

- 1. Direct creation: A demo project can be created directly. After being created, the demo project will be generated in the project list.
- 2. Wi-Fi-based creation: A demo project can be created through the Reyee SON process.

The demo project will be automatically deleted 6 hours after being created. A maximum of two demo projects can be created for one account at a time.



# **3** Project

# 3.1 Checking Project Information

# 3.1.1 Network Management

Network management display the network list and network details.

- (1) Tap **Project** and select a project.
- (2) My: Tap it to check all the projects under the account.
- (3) **Received**: Tap it to check all the projects shared to the account.



(4) Tap a Project.

The logical topology is displayed.

# 3.1.2 Network Overview

**Overview** displays statistics about APs, switches, gateways, and clients.

Implementation Cookbook

	🖽 <sup>66</sup> .ill 📀	(1) <b>(0)</b> * ¥	100% 📧 16:52
く DemoPro 魚 Office(BYOD ② Uptime 0d 1	) • Onlir		¶ ~ : 11
	Device	Network	윦
RAF	2/2 *11260(G)	• GH+E	Q
Client List 0			p Detect
G Worksp	ace	_	Q
Basic	Advan	ced	Scenario

- **Project status** and **Uptime**: Display the project status and uptime. Only information about Reyee projects is displayed.
- Tap it to check the actual topology of the network.
- **Detect**: Tap it to detect the camera on the network.

Denierre	ject1		<b>(?</b> ,	→ :
1 Office(BYOD	) • Onlii	ne device	s 11	
OUptime 0d 1	h			
	Device	Netwo	-	VLAN
	Device	Netwo	ĸ	VLAN
Llear Eveneria				
User Experie	nce			
		4		
	3	1		
	No [	Data		
		x		
Outbound Ra				
		-O- Uploa	- <del>0-</del> (	lownload
Mbps			- <b>O</b> - t	lownload
			- <b>O-</b> (	ownload
Mbps 1 -			- <del>0</del> - 1	ownload
Mbps 1			- <b>O</b> - 0	Download
Mbps 1 - 0.8 - 0.6 - 0.4 - 0.2 -	08:10	-O- Upload	- <b>O</b> - 0	Download
Mbps 1 - 0.8 - 0.6 - 0.4 - 0.2 - 0 <b>\$</b>	D8:10 Upload	O- Upload	0.0	~
Mbps 1 - 0.8 - 0.6 - 0.4 - 0.2 -	08:10	O- Upload		~
Mbps 1 - 0.8 - 0.4 - 0.2 - 0 <b>Q</b> - 15:00 18:10	D8:10 Upload Downlo	O- Upload	0.0	~
Mbps 1 - 0.8 - 0.6 - 0.4 - 0.2 - 0 <b>\$</b>	D8:10 Upload Downlo	O- Upload	0.0	~

User Experience: Display Wi-Fi user experience, which is Excellent, Good, or Poor.

Outbound Rate Trend: Display outbound rate trend in the past 24 hours.

VLAN: Display WLAN and wired subnets.

# 3.1.3 Topology

Topology displays the network topology and device status. You can also download the project report.

- (1) Click **Project** and select a project.
- (2) Tap Run all functions remotely.
- (3) On the topology information page, tap **Topology**.

10 <sup>45</sup>	🛚 😻 🕏 🎗 100% 🗩 17:18
✓ DemoProject1 <u>h</u> Office(BYOD) • Online c ⊙ Uptime 0d 1h	
Device N	etwork
1/1 EG310GH-E	
2/2 RAP1250(G)	3/3 RAP2260(G)
Client List 0	∳> Detect
G Workspace	Q
Basic Advanced	d Scenario

(4) The network topology of the project is displayed.

10:35 🕇		4G 🔳
<	Actual Topology	
Gateway: 1/1	Switch: 1/1 💽 Wireless AP:1/1	
		Ģ
		•
		ð
		$\checkmark$
	-	
	(804)	
	EG105G-P-V2 SN: EG34942570019	
	(Test)	
	ruijie ES209GC-P	
	(Port)	
	A# RAP1200(E)	
	SN: CANLC2R001191	

Project

# 3.1.4 Device Info

# 1. Gateway

In the network topology, tap the gateway to go to the **Device List** page. Tap the gateway you want to query to obtain its details.

	🖽 Sall 😒	<b>12 10 1</b> 1 1 1	100% 💌 17:24
< De	evice Info	ormation	100
Coline T REAL R	IP: 192.1 MAC: 00 SN: NAE	G310GH-E 68.110.1 0d0.f800.e311 (00E3H0001 e Version: Rey	
eWeb	Rebo		Remove
Port			?
LANO LANI	LAN2 LAN3	LAN4 LAN	5 WAN3 W/
⊕ WAN Rate     ↑ ↓	e(Mbps)		
All ports			
Port	Speed(MI	ops) Type	Speed
WAN3		Copper	Disabled

> 20 100% ● 17:26					
< De	vice Inf	ormation	log		
Gateway 2 Model: EG310GH-E IP: 192.168.110.1 MAC: 0040.f800.e311 SN: NAEK00E3H0001 Firmware Version: ReyeeOS 1.206.2023 € 0					
eWeb	Rebo		Remove		
Monitor Config					
PPPoE Ser	ver	PPPoE /	Account		
Routing Ta	ble	IP+MAC	Binding		
ACL		Mor	hitor		
Policy-Based Routing	ł				

#### 2. Switch

In the network topology, tap the switch to go to the **Device List** page. Tap the switch you want to query to obtain its details.



	📼 Sall 📀	10 10 \$ \$ 1	00% 🗩 17:36	
< De	evice Info	ormation	<u> </u>	
Model: NBS3200-48GT4XS IP: 192.168.110.2 MAC: 00d0.f800.e320 SN: NAEK00E3H0002 Firmware Version: ReyeeOS 1.202.1818				
eWeb	C		Remove	
Monitor Config				
VLAN Sett	ings	Cable	Test	
Aggregate Interface		Set Conne Device	ected	
Loop Prev ention		Routing Informatio	on	
Port Rate L	₋imit	Storm C	ontrol	
Port Protec	ction	IP+MAC E	Binding	

Operation	Description
	Assign VLANs for switch ports.
VLAN Settings         • Port Type: Tap it to select the port type: Access or Trunk.	
	• VLAN: Enter the VLAN ID of the port.
Long-distance Transmission	When long-distance data transmission is enabled, the port transitions to the full-duplex mode at a rate of 10 Mbit/s.
Set connected Device	Select a switch port and configure the downlink device connected to the port.
Cable Test	If the downlink device goes offline at a low speed, check the cable connection with every port.

## 3. Wireless

In the network topology, tap the wireless device to go to the **Device List** page. Tap the wireless device you want to query to obtain its details.

IP: 192. MAC: 0 SN: NAE					
IP: 192. MAC: 0 SN: NAE					
eWeb Reboot Loca					
SSID 중 @Ruijie-m8886 중 987654321	Client count				
2.4G	5G				
Channel Auto >	Channel Auto >				
Power Auto >	Power Auto >				

Parameter	Description
Chanel	Display the frequency band of the wireless device.
Power	Display the power of the wireless device.

# 3.2 Workspace

**Workspace** provides the entrance to commonly used functions. Depending on the networking method, **Workspace** displays different functions

# 3.2.1 Network Planning

Clients that transmit different services exist on a network, such as user PCs and surveillance cameras. Some clients such as cameras generate multicast and broadcast traffic, which can cause normal services to be suspended. Adding service networks can isolate surveillance cameras from the normal service network, providing a stable network.

#### Procedure

Choose Advaned > VLAN Config and tap Add.

DemoPro			③ Add MGM	ЛТ	
备 Office(BYOD		s 11			
⊙ Uptime 0d 1	h				
	Device Netwo	VLAN	Configuration	Alarm	
	Device	VEAN	VLAN ID	233	
			IP (SVI) DHCP Server	192.168.110.1 CAN71KZ034117	
User Experie	ence		DHCP Pool	192.168.110.1~192.168.110	254
			Used IPs	0	
			Lease Time	30m	
😑 Worksp	ace	Q		≍	
Basic	Advanced	Scenario			, D
Ŧ					
VPN				+	۲
Network-Wide				(WAY) DHCP Server	
20	69	Q		EG210G-P SN:CAN71KZ034117	
Blocklist	Nat Traversal	Smart Check	(MO)		_
ACL	1	VLAN	(Pot)		
Access Control	Anti ARP Spoofing	VLAN Config	ruijie ES209GC4	OffSwitch NBS5200-24GT4XS SN:G1QH65U001772	Feedback
For more fun	ctions, click the de	vice details in	9		
the	topology to config	lure	()	3/3)	

#### WLAN Subnet

(1) Choose **WLAN Subnet**, and configure the SSID, whether to enable encryption and authentication, and user bandwidth:

Name SSID: Specify the name of the WLAN, that is, name displayed when a terminal connects to Wi-Fi.

**Encryption**: Indicate whether to enable encryption. If this function is disabled, Wi-Fi is open for all terminals. You are advised to enable this function to ensure security.

**Password**: Specify the Wi-Fi password, which has at least eight characters. It refers to the input password when a mobile phone connects to Wi-Fi.

**Captive Portal Auth**: When this function is enabled, terminals must pass portal authentication. Otherwise, they cannot connect to the WLAN.

Portal Name: Select Portal authentication to be used.

**Bandwidth Limit Per User**: Specify the maximum uplink or downlink bandwidth per user. In the following picture, the maximum upload and download speeds are 5 Mbit/s.

VLAN ID: The system generates a non-used ID by default, which does not need to be adjusted.

**IP Range**: The system generates a network segment corresponding to a VLAN ID, which does not need to be adjusted.

<	Network Planning	Q	< Add Network
🟵 Add 🛛 MG	MT		WLAN Setting
Configuration	Alarm		Name/SSID
VLAN ID IP (SVI)	233 192.168.110.1		WiFi_62
DHCP Server	CAN71KZ034117 192.168.110.1~192.168.110.254		Encryption
Used IPs Lease Time	0 30m		Password 8 characters at least
	₹		Captive Portal Auth
	٢		Portal Name Please select
	1		Bandwidth Limit Per User
	DHCP Server		5 ↑ Mbps - 5 ↓ Mbps
	EC210CP SNEAK71K2054117	⊗	VLAN ID 62
Tuijle Eszonac	P NBS5200-24GT4XS SN.G1QH65U001772	eedback	IP Range (254 IPs) 192.168.62.1 – 192.168.62.254
Cancel		ОК	
WLAN Subne	et		
O Wired Subne	t		Save

- (1) Go to Portal Name > Add Portal, configure Portal Name, Login Options, and Post Login URL. The system switches to Ruijie official website by default. You can also enter the URL of the website that the authenticated user want to be redirected to.
- (2) One Click Login: Log in without the username and password. Access Duration and Access Times Per Day can be configured.

Account: Log in with the account and password.

**Voucher**: Log in with a random eight-digit password.

**SMS**: Log in with the phone number and code.



#### (3) Select Portal



#### Wired Subnet

abcd

(1) Configure Name and Captive Portal Auth (optional), select a port for a subnet, and tap Save.

**Captive Portal Auth**: When this function is enabled, terminals must pass portal authentication. Otherwise, they cannot connect to the WLAN.

VLAN ID: The system generates a non-used ID by default, which does not need to be adjusted.

**IP Range**: The system generates a network segment corresponding to a VLAN ID, which does not need to be adjusted.

**Select Port**: Select a port for a new subnet. At least one port needs to be added to make the subnet take effect.

	© 1 0 0 8 ≥ 0 0 0 8 ≥ 0	9% 🕖 ۲:55	< Add Network	
<	Network Planning	C		
3 Add MG	MT		Wired Setting	
Configuration	Alarm		Name Wired_Network_62	
VLAN ID IP (SVI) DHCP Server DHCP Pool Used IPs Lease Time	233 192.168.110.1 CAN71K2034117 192.168.110.1-192.168.110. 0 30m	254	Captive Portal Auth Portal Name Please select VLAN ID 62 IP Range (254 IPs ) 192.168.62.1 – 192.1	68.62.254
international in		Feedback	Select Port + Add Port	0 Selected
Cancel		OK		
WLAN Subne	et			
Wired Subne	t		Save	

< Device		< Add Netw	ork
Switch to topology view	Switch	Wired Setting	
ES209GC-P_ruijie Selected 3 Port SN:CAQ30R8024647	$\sim$	Name Wired_Network_62	
Select All	d by Other VLAN d by MGMT VLAN	Captive Portal Auth	
3 4 5 6 7	8	VLAN ID 62	
		IP Range ( 254 IPs ) 192.168.62.1 — 1	92.168.62.254
		Select Port	1 Selected
		+ Add P	ort
		CA030B8024647	7 >
ОК		Save	

## 3.2.2 Flow & App Control

You can apply a policy to flexibly select users or network segments, preventing applications of the users or network segments from being connected. For example, you can block web page gaming and common gaming applications.

The project mode must be set to Office.

Flow control allows the gateway to adjust the bandwidth according to the number of users to ensure equal bandwidth allocation.

#### Procedure

Choose **Advanced**, **Flow&App Control** and tap Smart Flow Control. Enter the uplink or downlink bandwidth of the WAN port and tap **Save**.

Choose Advanced, Flow&App Control and tap App Control.

	10 ° 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$ \$ 100% 🗩 17:43	□□ 光山 ⊘ □ 酸 水 ネ 100% ●
DemoP	roject1		< Flow&App Control
合 Office(BYC	D) • Online device	es 11	Smart Flow Control App Control
⊙Uptime 0d	1h		
	Device Netwo	rk VLAN	
User Expe	rience		
<b>.</b>	—	0	-
G Works	pace	Q	
Basic	Advanced	Scenario	
Gateway&Sw	itch		Not configured. You can configure application flow control.
(Fa	രി	<b>C</b> 3	application control, and application priority settings.
Flow&App	WAN Config	LAN Config	
Control	WAIN Coning	DAY Comig	
0045	出。		
DDNS	DHCP Snooping	Loop Prevention	
VIN			
VPN			
Network-Wid	le		+ Add
0	-		

User: indicates the subnet or user group to which a policy is applied.

Select App/Web: select Apps or website you want to control.

Policy Type: indicates the type of a policy. You can configure blocking, speed limit, and priority setting.

Time: indicates the time of a policy.

< App Control	< App Control		< App Control	
Policy Name	Policy Name		Policy Name	
Enable	Enable		Enable	
User *	User *		User *	
	Cancel	ок	192.168.110.1-192.168.110.254	~
	✓ Q Enter search content	0 Selected	Select App/Web * FM FLV_App Tempo CapCut K	KineMaster Fl $\smallsetminus$
Cancel	OK 🥑 APPs 🔵 Website		Cancel	ок
Subnet Group User Group	Communication		S BLOCK	
VLAN233 192.168.110.1-192.168.110.254	2 Video			
Ctoff M/IEI	Shopping			
192.168.61.1-192.168.61.254	Play		0	
	Databank			
	P2PSoftware			
ок	◯ Select All	ок	ок	
< App Control	< App Control		< App Control	1
< App Control Policy Name	< App Control Policy Name		< App Control Policy Name	
Policy Name	Policy Name Enter policy name		Policy Name	
Policy Name Enter policy name Enable User *	Policy Name Enter policy name		Policy Name Enter policy name	
Policy Name Enter policy name Enable User * 192,168.110,1-192,168.110,254	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254		Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254	
Policy Name Enter policy name Enable User *	Policy Name Enter policy name Enable User *		Policy Name Enter policy name Enable User *	
Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 OK Select App/Web *		Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web *	
Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Cancel	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 OK Select App/Web * FM FLV_App Tempo CapCut Kit Policy Type *	∽ neMaster Fl∽	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web * FM FLV_App Tempo CapCut K Policy Type * PRIORITY Priority Level *	
Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Cancel Oweekend Saturday.5unday:00:00-23:59 Oweekdays	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 OK Select App/Web * FM FLV_App Tempo CapCut Kit Policy Type * SPEED LIMIT	∽ neMaster Fl∽	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web * FM FLV_App Tempo CapCut K Policy Type * PRIORITY	
Policy Name Enter policy name Enable User * 192168.110.1-192.168.110.254 Cancel Weekend Saturday.Sunday:00:00-23:59 Weekdays Weekdays	Policy Name         Enter policy name         Enable         User *         192.168.110.1-192.168.110.254         OK         Select App/Web *         FM FLV_App Tempo CapCut Kit         Policy Type *         SPEED LIMIT         * Bandwidth Limit Per User	∽ neMaster Fl∽	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web * FM FLV_App Tempo CapCut K Policy Type * PRIORITY Priority Level *	
Policy Name Enter policy name Enable User * 192168.110.1-192.168.110.254 Cancel Weekend Saturday.5unday:00:00-23:59 Weekdays Weekdays Weekdays	Policy Name         Enter policy name         Enable         User *         192.168.110.1-192.168.110.254         OK         Select App/Web *         FM FLV_App Tempo CapCut Kit         Policy Type *         SPEED LIMIT         * Bandwidth Limit Per User	∽ neMaster Fl∽	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web * FM FLV_App Tempo CapCut K Policy Type * PRIORITY Priority Lavel * High	CineMaster FI \rightarrow
Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Cancel Weekend Saturday.5unday:00:00-23:59 Weekdays Weekdays Weekdays	Policy Name         Enter policy name         Enable         User *         192.168.110.1-192.168.110.254         OK         Select App/Web *         FM FLV_App Tempo CapCut Kit         Policy Type *         SPEED LIMIT         * Bandwidth Limit Per User	∽ neMaster Fl∽	Policy Name Enter policy name Enable User * 192.168.110.1-192.168.110.254 Select App/Web * FM FLV_App Tempo CapCut K Policy Type * PRIORITY Priority Level * High	CineMaster FI ⊻

# 3.2.3 VPN

The headquarters and branches need to exchange data. Branches access network segments of the headquarters through VPN, and traveling employees access the enterprise intranet through VPN.

### Procedure

	© "	\$ ₽ 100% 🗩 17:43	
DemoPr	oject1	₫ → :	
台 Office(BYO	D) • Online devic	es 11	
⊙Uptime 0d	1h		
	Device Netwo	vLAN	
User Exper	ience		
O Workey		0	
G Works	Jace	Q	
Basic	Advanced	Scenario	
Gateway&Swi	tch		
C-3	6		
Flow&App Control	WAN Config	LAN Config	
00415	止	-	
DDNS	DHCP Snooping	Loop Prevention	
VPN			
VPN			
Network-Wid	e		
0	فللد	-	

Choose Advanced > VPN and tap Add. Select a VPN type and tap Enable.

Server Mode: indicates the access authentication method for open VPN users.

Account: indicates authentication based on user name and password.

Certificate: indicates authentication based on the server-side certificate.

Account & Certificate: indicates authentication based on both the account and certificate.

**OpenVPN**: Private channels need to be established between enterprises or between individuals and enterprises, so as to ensure security and meet cross-NAT communication needs. Open VPN is used to establish Layer 2 or Layer 3 VPN tunnels through a virtual Network Interface Controller (vNIC). Open VPN supports flexible client authorization modes and authentication through the certificate or username and password, and allows users to connect to VPN virtual interfaces through firewalls. It is easier to use than other types of VPN technologies. Open VPN can run in the Linux, xBSD, Mac OS X, and Windows 2000/XP. The gateway can establish VPN connections with PCs, Android/Apple mobile phones, routers, and Linux devices, and it is compatible with most Open VPN products in the market.

**L2TP and L2TP Over IPsec**: The Layer Two Tunneling Protocol (L2TP) is a virtual tunneling protocol and is often used on virtual private networks.

L2TP does not provide encryption and reliability verification functions, but can be used with a security protocol to implement encrypted data transmission. L2TP is frequently used with IPsec to encapsulate packets using L2TP before packets are encapsulated using IPsec. This combination implements user verification and address allocation through L2TP and ensures communication security through IPsec.

**PPTP**: The Point-to-Point Tunneling Protocol (PPTP) is an enhanced security protocol designed based on the Point-to-Point Protocol (PPP). It allows an enterprise to use private tunnels to expand its enterprise network over the public network. PPTP relies on PPP to implement security functions such as encryption and identity authentication. In most cases, PPTP is used with the Password Authentication Protocol (PAP), Challenge Handshake Authentication Protocol (CHAP), Microsoft Challenge Handshake Authentication Protocol (MS-CHAPv1/v2), or Extensible Authentication Protocol-Transport Layer Security (EAP-TLS) for identity authentication and Microsoft Point-to-Point Encryption (MPPE) for encryption to improve security.

The device can be deployed as the PPTP server or client. It can integrate MPPE with MSCHAP-v2 encryption for identity authentication, but does not support EAP authentication.

< VPN Setting
VPN Type Open VPN
Enable Open VPN
Server Mode ③
Account
Protocol UDP ~
Server IP Ruijie DDNS @
admin123 .reyeeddns.com
IP Pool ③ 10.80.12.0/24 ···
Cancel OK
Open VPN
C L2TP Over IPsec
CL2TP
○ РРТР

If the WAN uses a dynamic public IP address, you are advised to use Ruijie DDNS.

VPN Setting		< VPN Setting	
		VPN Type	
VPN Type Open VPN	$\sim$	Open VPN	$\sim$
Enable Open VPN		Enable Open VPN	
		Server Mode ①	
Server Mode ⑦ Account	$\sim$	Account	
Protocol		Protocol	
UDP	$\sim$	UDP	\ \
Server IP Ruijie DDNS ③		Server IP Ruijie DDNS ⑦	
192.168.118.141		admin123 .reyeeddr	ns.com
IP Pool ③		IP Pool ③	
10.80.12.0/24	$\sim$	10.80.12.0/24	`
Server Subnet ⑦		Server Subnet ①	
192.168.110.0/24	$\sim$	192.168.110.0/24	~
Route All Traffic over VPN		Route All Traffic over VPN	0
Save		Save	

**Pre-shared Key**: Specify the same unique pre-shared key as the credential for authentication between the server and client. This parameter is available only when **L2TP over IPsec** is selected and is used for IPsec encryption.
<	VPN S	Setting
VPN Type L2TP Over I	Psec	~
Enable L2T	P Over IPsec	
Pre-shared Ke Enter pre-sh	,	
Server IP	Ruijie DDNS	0
192.168.11	8.141	
Local Tunnel 10.70.17.1	IP	
IP Pool (253	IPs) 🕐	
10.70.17.2	_	10.70.17.254
	Sa	ive

IP Pool: Specify a virtual IP address assigned by the server to a user after the user is connected to the VPN.

**Server Subnet**: Specify a server subnet to which the user is allowed to access after the user is connected to the VPN.

How to Set Up an L2TP VPN on iPhone, Android, and Win10?

How to Set Up a PPTP VPN on iPhone, Android, and Win10?

How to Set Up an Open VPN on iPhone, Android, and Win10?

< VPN Setting	<	VPN Setting		< VPN \$	Setting
VPN Type Open VPN	VPN Type		~	VPN Type PPTP	~
Enable Open VPN	Enable Op	en VPN		Enable PPTP	
Server Mode ③	Server Mode	e		Server IP Ruijie DDNS	0
Account	Account		$\sim$	192.168.118.141	
Protocol UDP	Protocol		~	Local Tunnel IP 10.60.16.1	
Server IP Ruijie DDNS ③ admin123 .reyeeddns.		Ruijie DDNS 💿		IP Pool (253 IPs) ③ 10.60.16.2	10.60.16.254
	daminizo		reyeeddns.com 😪	MPPE	
IP Pool ③ 10.80.12.0/24	IP Pool ③ 10.80.12.0		~		
Server Subnet ③ 192.168.110.0/24	Server Subn	et 💿	~		
Cancel	OK Route All 1	Fraffic over VPN			
Account	Cancel		ОК		
Certificate	UDP				
Account & Certificate	ОТСР			Sa	ave

MPPE: When PPTP is selected, enable Microsoft Point-to-Point Encryption Protocol (MPPE) to improve security.

#### 3.2.4 User Management

Account authentication allows the valid account to access the specified Wi-Fi.

#### Procedure

(1) Tap User Management, tap Add Account, and configure the user name, password, and group. Tap Allow VPN connection to allow a user to use this account to log in remotely through a VPN. Click User information Setting to set the first name, last name, email, phone number, and comment.

🛕 Note

The account and password are mandatory. Enter less than 32 characters, consisting of letters, numerals, or underscores.

Information

For batch account import, go to Ruijie Cloud Web Portal > Authentication > Account.

Us	er	User Grou	р	Account Settings	
Account	Voucher ?	Q	Search	User Name	
	C			Enter user name	
4	0 Activate		0		
Total	Activate	ed E	xpired	Password	
Account	Password	User Group	Sta $>$	Enter password	
				User Group	
chlis	123456	staff	Not use	Guest	
boss1	123456	boss	Not use	Allow VPN connection	
				By enabling this option, the user can us	e this account t
bond	123456	Guest	Not use	log in remotely using a VPN.	
Tommy	ruijie123	staff	Not use	User Information	⊖ Unf
				First Name	
	The Er	10		Enter first name	
				Last Name	
				Enter last name	
				Phone Number	
				Enter phone number	
				Email	

Voucher authentication on Ruijie Cloud allows you to charge users for wireless network access using access codes. The number of concurrent users, time point, and data quota limit can be customized and offered to your guests.

#### Procedure

Tap Scenario > User Management and go to User > Voucher > Add voucher to configure the number of vouchers and user group of the voucher.

**Number of Voucher**: Enter the number of vouchers. When the value is set to 1, a single voucher can be added, and the name and email need to be configured. When the value is larger than 1, vouchers can be added in a batch. You can choose not to configure the name or email, and configure them separately.

User Group: Select a user group or tap Custom to define a user group.

User information Settings: Configure user information, which is optional.

#### **Advance Settings**

Voucher code type: Configure the code type that can consist of letters and numerals.

Voucher length: The value ranges from 6 to 9.

<	User Manage	ement	~ <	Add Voucher
U	lser	User Group		Voucher Settings
Account	Voucher ?	Q Search	h	umber of Vouchers
0 Total	0 Activated	0 Expired		nter the number of vouchers
lotar	horrace	- Exprise		Iphanumeric 0-9a-z
			v 6	oucher Length $\sim$
				ser Group uest ~
	8		I	User Information  O Unfold
	No Data	1		rst Name nter first name
				ast Name nter last name
				hone Number nter phone number
			E	mail
	Add Vouc	her		Save

(2) Go to User Management > User Group > Add.

User Group Name: Enter the user group name.

Price: Enter the price of the user group. The input value does not affect network usage.

Concurrent Devices: Select the number of concurrent devices for one account.

**Period**: Select the maximum validity time of an account. It refers to the maximum connection time since successful authentication.

Maximum upload rate: Select the maximum upload rate.

Maximum download rate: Select the maximum download rate.

**Bind MAC on first use**: Bind the MAC address of first connected client. Other clients cannot use this voucher for Internet access.

User	User Gro	up		
	_		User Group Name	
Guest		•	Please enter the User Group Name	
Period	2 Hours		Concurrent Devices	
Data Quota	Unlimited		Unlimited	
Upload Speed Download Speed	2 Mbps ↑ 2 Mbps ↓		Bind MAC on first use	O
			Period	
staff		:	Unlimited	
		•	Data Quota	
Period	Unlimited		Unlimited	
Data Quota Upload Speed	Unlimited 5 Mbps ↑		Upload Speed	
Download Speed			Unlimited	
			Download Speed	
ooss		•	Unlimited	
Period	Unlimited		Price	
Data Quota	Unlimited		Please enter the price.	
Upload Speed	10 Mbps ↑			
Download Speed	10 Mbps ↓			

## 3.2.5 Wi-Fi Settings

## **Application Scenario**

You can configure the SSID or password by choosing it as the hidden Wi-Fi or Wi-Fi 6.

#### Procedure

(1) Tap Basic > Wi-Fi Settings.





Parameters on the Wi-Fi Config page are described:

- SSID/Wi-Fi Name: Enter the SSID for 2.4 GHz and 5 GHz.
- **Password:** Enter the password of the SSID.
- Hidden: The SSID is hidden and must be manually entered.
- 5G-Prior Access: Detect clients that support 5 GHz and steer them to this frequency.
- Enable Wi-Fi 6: Configure 802.11ax high-speed wireless connectivity.
- VLAN ID: Enter the VLAN ID of the SSID.

### 3.2.6 Monitoring

#### **Application Scenario**

You can check network monitoring information.

#### Procedure

(1) Tap Basic > Monitor.

11:02 🕫	<b>ul</b> 4G 🔳
K Netwo	ork Monitor
Network Info	Current ~
Active Clients 0	Online Clients 0
uplink Speed 0.04Mbps	Downlink Speed 0.01Mbps
Device Info	
0	Online Devices 3
3 DEVICES	Contro Devices 0
Wi-Fi Client Summary	Last 24 Hours ~
Clients	T
	140 01:00 04:40 08:10
0-1-1-10 11-10 14-40 18-10 21	140 0130 54.40 08.10 ents -O- Active Clients
-O- Associated Ci	ients -O- Active Clients
0-1-1-10 11-10 14-40 18-10 21	
-C- Associated Cli Traffic Summary	ients -O- Active Clients
• Associated Cil	ients -O- Active Clients

- Network Info: Display network information including Active Clients, Online Clients, and Uplink/Downlink Speed.
- Device Info: Display the numbers of online and offline devices.
- Wi-Fi Client Summary: Display the Wi-Fi client's number in the past 24 hours.
- Traffic Summary: Display traffic in the past 24 hours.

## 3.2.7 Roaming Optimization

#### **Application Scenario**

You can configure proper signal coverage for APs in the same location or of the same type for better roaming.

#### Procedure

(1) Tap Advanced > Roaming Optimization, Start to configure roaming optimization.



(2) Select the scenario for roaming optimization.

11:03 7		<b>.11</b> 4G 🔳
< Roa	aming Optimizat	ion
Select Scenario	Group APs	Configure Coverage
Please select a sc	enario.:	
Home/Villa Small room (bedroon	n or kitchen) and big	room (living room)
Storage Stall (tea room), rack	and open office	0
Office Stall (tea room) and o	open office	0
Hotel Restaurant, meeting	room and guest roor	" O
	Next	
		_

(3) Select the group type and add APs to corresponding groups for better optimization.

11:03 🕈		<b>al</b>   46 🔳
< Roar	ning Optimiza	tion
Select Scenario	Group APs	Configure Coverage
Please select the group groups for better optim	o type and add AP nization.	s to corresponding
By Area By A	Р Туре	
Small room Bedroom, kitchen, dinir	ng room, etc.	1>
Big room Living room, etc.		Add >
	Next	

(4) Drag the slider to adjust the RSSI as needed.



## 3.2.8 Wireless Optimization

#### **Application Scenario**

You can optimize the channel and the power of APs in the project with one click, so as to reduce interference of wireless channels and improve user experience.

#### Procedure

(1) Tap **Advanced** > **Wireless Optimization** > **Start** to start Wi-Fi optimization.



(2) Tap start to enable Wi-Fi optimization. You are advised to run this function during non-peak hours.

11:05 🕫		all 46 🔳
<	Wi-Fi Optimization	0
	8	
interrupt	he optimization, the Wi-Fi ma led, so you are advised to run k hours.	y be i it in the
Or	0 10min Iline Clients Optimization T	ime
	Start	
© Schedu	le	Disabled >

(3) Select the Wi-Fi optimization schedule which is automatically enabled at the fixed period during non-peak hours.

11:05 🕫		atl 4G 🔳
<	Schedule	
Wi-Fi Optimizat	tion Schedule	
Automatically enal epeatedly during	ble Wi-Fi optimization at the non-peak hours.	fixed period
Repeat at		
Monday	🔽 Tuesday	
Wednesda	y Thursday	
Friday	Saturday	
Sunday		
	03:00	
	Save	
	Jave	

## 3.2.9 Adding Devices

### **Application Scenario**

You can add Ruijie devices to a project.

### Procedure

(1) Tap **Basic** > **Add Device**, Scan the QR code of a device.

Project

< DemoPro	iect1	¢ ~ :	11:05 🕇		.11 46 🔳
合 Office(BYOD)	Online device		<	Add Device	Photo
⊙Uptime 0d 0h					
•	Device Netwo	rk 🖧			
				181	
😉 Workspa	ice	Q	1/100 11 11		
Basic	Advanced	Scenario	1	R	
Alarm Demo			L		L_
(1:	Ŧ	E(I)			•
Wi-Fi Settings	Add Device	AR HUD			
$\bigcirc$	$\bigcirc$	Q			
Parental Control	Reboot	Diagnose	_		- VAN
Ŷ	-	ä			
Update	Monitor	Alarm	Scan to a	Add Man	ually Enter

(2) Select the device type and add the SN manually.



(3) Tap OK.

## 3.2.10 Diagnosis

#### **Application Scenario**

You can check the device connection status.

- (1) Tap **Basic** > **Diagnose** to diagnose the network, which takes about 3 minutes.
- (2) Check the diagnosis result.

DemoPro	piect1	1 ~ :	11:07 🕫	ull 4G 🔳
	) • Online device		< Diagnose	
⊙ Uptime 0d 0	h			
•	Device Netwo	rk &	Phone AP - Gate	eway Internet
			Internet Connection	
	10		Connection between AP and Gatewa	ay 🔆
😉 Worksp	ace	Q	Client Experience	OK
Basic	Advanced	Scenario	Chem Experience	OK
WI-FI Settings	Add Device	AK HUD		
$\odot$	Ċ	$\odot$		
Parental Control	Reboot	Diagnose		
Ŷ		ä		
Update	Monitor	Alarm		
~	Ĩ	6		
Share	Report	Password		
(3)				
AI Diagnostics				

When the connection status is not OK, tap the message to troubleshoot faults as prompted.

### 3.2.11 Share

#### **Application Scenario**

You can share a project to others and manage it, and configure network permissions of receivers.

#### Procedure

(1) Tap **Basic** > **Share**, Tap **Start** to share he network to others.



(2) Select the permission: Read&Write or Read-only.

11:09 🕈		a <b>ti</b> 46 🔳
e - 1	Project SI	
ReyeeNe		
Receiver Receive in App		
Permission		
Read & Write Check and configure project	the	Read-only Only check the project
	Share	
	Gildit	
	Сору	

(3) Tap Share to share project information through WeChat or other method.

To use another method to share project information, you can also Click **Copy** to copy the project information, paste it into a text message or memo, and then share it to others.

11:09 🕈	A.	atl 46 🔳 🗋
<	Project Sharing	
R	ReyeeNetwork_01	
Receive Receive in		
Permiss	ion	
	k Write Read-only and configure the Only check the p	moject
	Share	
	Сору	
0	Share the project	×
	d the message to the receiver. The rec essage and open Ruijie Cloud App to	
	🚳 🖸 🖂	
	WeChat WhatsApp Email	

### 3.2.12 Inspection

### **Application Scenario**

You can inspect the network status.

#### Procedure

(1) Tap Start to perform inspection.

The inspection takes about 2 minutes without affecting the network.



(2) Check the inspection status.



(3) After the report is generated, you can tap **View Report** to check report details or share or export the report to others.

1:19 7			al	<b>₹</b>
	Re	sult		
	•			
The report The network	Succe has been g can be ha	enerated su	ccessfu o the cli	lly. ent.
	View I	Report		
	Ba	ick		
11:20 7				ul≎⊮
	 R	leport		ul ≎ ⊯
1.1 Introduction 2. Configuration 2.1 OfficeService	R	leport		मा २ छ
1 Introduction 2. Configuration 2.1 OfficeService 5.1 Wired Network whed Network	P herps	VLAN	9 A	ulgemaet.
1 Introduction Configuration 1 OfficeService 1.1 OfficeService 1.1 Wired Network whend Network Whend Network	IP Range 192.168.110.104	leport 1044	29 AU	ntil ? 🕅
I.1 Introduction     Configuration     Configuration     Configuration     L10MiceService     K1.1 Wired Network     Word Teatwork     VLAH 1     VLAH 1     VLAH 23     L12 Wireless Network	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN	29 AU	ulganuet. 2409
Introduction     Configuration     Configur	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range	29 AU	sigment 35CP 19CP
A Inhoduction     Configuration     Configu	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	94.8M 1 223	29 AU	algement 24CP
A Infraduction     Configuration	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range	29 AU	sigment 35CP 19CP
A I Moduction 2. Configuration 2. Configuration 2. Configuration 2. Configuration 2. Configuration 3. Config	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range 192 148 1101 104	29 AU	sigment 35CP 19CP
L 1 Hibolución 2. Conflyadimion 2. Confl	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range 192 146 146 146	29 AU	sigment 35CP 19CP
L 1 Hibolución 2. Conflyadimion 2. Confl	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range 192 146 146 146	29 AU	sigment 35CP 19CP
A. I belockellon     Configuration     Conf	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 3 23 97 Mange 182 H0.101.004 Countyford Hora acades to pool of dat	IP Au C C C C C C C C C C C C C C C C C C C	algonal bot pool pool pool pool pool pool pool po
Configuration Co	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 1 203 IP Range 192 146 146 146	IP Au C C C C C C C C C C C C C C C C C C C	sigment 35CP 19CP
A. I belockellon     Configuration     Conf	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 3 23 97 Mange 182 H0.101.004 Countyford Hora acades to pool of dat	IP Au C C C C C C C C C C C C C C C C C C C	algonal bot pool pool pool pool pool pool pool po
Configuration 2. Official design of the second 2. Official design	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 3 23 97 Mange 182 H0.101.004 Countyford Hora acades to pool of dat	IP Au C C C C C C C C C C C C C C C C C C C	algonal loc? Problement Dic? rescuencedus
A 1 betackfilter 2. Configuration 2. Configuration 3. Configura	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 3 23 97 Mange 182 H0.101.004 Countyford Hora acades to pool of dat	IP Au C C C C C C C C C C C C C C C C C C C	algonal loc? Problement Dic? rescuencedus
C I I I I I I I I I I I I I I I I I I I	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VUM 3 3 23 23 24 24 24 24 24 24 24 24 24 24 24 24 24	PAA 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	algonal loc? Problement Dic? rescuencedus
C I Configuration C I Configuratio C I Configuration C I Configuration C I Configura	9 <sup>9</sup> Range 190 148 110 104 192 148 110 104	VLAN 3 23 97 Mange 182 H0.101.004 Countyford Hora acades to pool of dat	PAA 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	algonal loc? Problement Dic? rescuencedus

### 3.2.13 Restoration

#### **Application Scenario**

You can restore all the devices to factory defaults.

#### 🛕 Note

After factory defaults are restored, all configuration the device will be lost. Exercise caution when you perform this operation.

#### Procedure

Click Restore to restore all devices on the network to factory defaults.



## 3.2.14 Project Name

#### **Application Scenario**

When you use Ruijie Reyee App to manage multiple projects, you can configure project names to easily identify name.

#### Procedure

(1) Tap **Rename** to configure the project name.

< DemoProject1	Q ~ :
for Office(BYOD) • Online dev	ices 11
⊙Uptime 0d 0h	Rename
Device Net	Delete
1/1 EG3100-E 5/5 Switch 2/2 RAP125000 RAP	3/3
Client List 0	Solution Detect
G Workspace	Q
	Scenario



(2) Tap **OK.** 

### 3.2.15 WAN Configuration

#### **Application Scenario**

You can configure information about WAN ports.

#### Procedure

- WAN Link mode: Select Single ISP link or Dual ISP links.
- WAN Type: Select the WAN mode: PPPoE, DHCP, or Static IP.

Configure information about a WAN port based on the connection mode.

• When WAN Type is set to PPPoE, configure the account and password provided by the ISP.



When WAN Type is set to Static IP, configure the IP address, subnet mask, gateway address, and DNS server address.

< Internet Connection			
PPPoE	DHCP	Static IP	
2			
ubnet Mask			
ŝateway			
NS Server			
02.1Q Tag			

• When WAN Type is set to DHCP, select DHCP and save the configuration.

Ensure that the DHCP server is deployed on the network.

802.1Q Tag: Enter the VLAN ID when the ISP needs to configure the 802.1Q tag.

## 3.2.16 Alarm Enabling or Disabling

#### **Application Scenario**

With the alarm function enabled, you will receive an alarm notification when a camera connected to a switch is disconnected.

#### Implementation Cookbook

11:15 🕇		ul 🕈 🕪
<	Alarm On/Off	
	ff the alarm, you will receive ara connected with the sw	
Camera Stat	us Alarm	
	Save	

## 3.2.17 DDNS

#### **Application Scenario**

When DDNS is enabled, you can access the device on the gateway with a URL.

Ruijie gateway supports three types of DDNS: **NO-IP**, **DynDNS**, and **Ruijie DDNS**.

11:16 🕇	ul \$ ₩)
<	Ruijie DDNS
domain name tha address of the d public IP address You can access t	des Reyee Gateway with a custom t automatically maps to the public IP wice (if the WAN IP address is not a , the device may not be accessible). he device through the domain name.
take effect in 1-5	ta version, and the domain name will minutes.
DDNS	
Domain	Jhhg .rjnoc.com
	Save

11:16 🕫		ul 🗢 时
<	DDNS	
No-IP		>
DynDNS		>
Ruijie DDNS		>

## 3.2.18 Radio Settings

#### **Application Scenario**

You can configure the country code and channel width.

If the interference is severe, choose a lower channel width to avoid network suspension. The router supports 20 MHz and 40 MHz channel width. The Wi-Fi network speed is more stable when the channel width is smaller, and a larger channel width makes the device be more prone to interference. After changing the channel width, tap **Save** to make the configuration take effect immediately.

#### Caution

After the change, the Wi-Fi network will restart, and clients need to reconnect to the W-Fi network. Therefore, exercise caution when performing this operation.

11:17 🛪		al 🕈 🚯
<	Radio Settings	
Country/Regio	n	China >
RF1(2.4G) Cha	annel Width	Auto >
RF2(5G) Chan Only take effect	nel Width on the device that supports 5G.	Auto >
	United Arab Emirates	
	Afghanistan	
	Anguilla	
	Albania	
	Armenia	
	Netherlands Antilles	
	Argentina	
Cancel		OK

## 3.2.19 Alarm

### **Application Scenario**

You can check the device alarm and partnership change in Message Center.

#### Procedure

(1) On the app home page, tap **Message Center**.

11:28 🕇		all 🕈 时
<	Message Center	
<b>4</b> <sup>0</sup>	Alarm Device offline alarm	
:0	Partnership Employee Quit Notice	

(2) Tap Alarm to check alarms.

11:29 🕫	41 <b>†</b> 15
Alarm (Last	: 30 Days)
Type: AP810-L	
Alarm: Device offline alarm	ı
Suggestion: Please perform	m offline diagnosis
Fix	>
Delete	>
HomeRouter	2022-04-02 16:20
Device: slave2-repeater(G	1QPCJM000077)
Type: EW300-PRO	
Alarm: Device offline alarm	ı
Suggestion: Please perform	m offline diagnosis
Fix	>
Delete	N
	· · · · · · · · · · · · · · · · · · ·
2100sub	2022-04-01 11:13
2100sub Device: A720(G1MQ3U600)	
Device: A720(G1MQ3U600	
Device: A720(G1MQ3U600 Type: AP720-L Alarm: Device offline alarm	0181A) 1
Device: A720(G1MQ3U600 Type: AP720-L	0181A) 1

## 3.2.20 Password Configuration

To ensure project security, change the project management password periodically.

- The management password has at least eight characters, including lowercase letters, uppercase letters, numerals, and special characters. It cannot contain admin, spaces, or question marks.
- (1) Tap **Project** and select a project.
- (2) Swipe Tool Kit and go to Settings > Device Password.
- (3) Change the device management password.

18:12 🖸		0.58 😰 🔌 HD 19 .ull 7	7% 🖻
<	Edit Passw	ord	
Managemen	Password		
8-31 charac	ters		$\sim$
<ul> <li>safety, please</li> <li>⊘ has at lea</li> <li>⊘ contains 3</li> <li>lowerca</li> <li>upperca</li> <li>number</li> <li>special</li> <li>⊘ can not co</li> </ul>	vord (used for the eV ensure the passwo st 8 characters 3 of these character se letters: aBcD s: 0123 characters: <=>[]!@# ontain "admin" ontain spaces or que	rd: types: #\$*().	project
	Save		
	-	_	

(4) Tap Save.

## 3.2.21 Upgrading

Check whether all devices are running the latest versions. You can upgrade devices to the latest versions with one click.

- (1) Tap **Project** and select a project.
- (2) Swipe Tool Kit and go to Tool > Upgrade.
- (3) The system automatically determines the current device version:
- If all devices use the latest version, information similar to the following is displayed:

11:08	1 all-	46 🔳
<	Update	0
	$\bigcirc$	
	Perfect	
A	Il devices are running the latest versions	ŝ.
Gatew	ay   EG105G-P-V2	1 ^
	Unnamed Gateway EG105G-P-V2 00d0.f815.0843 Current Version: ReveeOS 156.1325	
Switch	I ES209GC-P	1 ^
	Unnamed Switch ES2096C-P ecb9.70e4.29b5 Current Version: ESW_1.0(1)8IP3.Release(07200415	
AP   R/	AP1200(E)	1 ^
×	Unnamed AP RAP1200(E) 300d.9e0c.1f0a Current Version: Reyes/OS 1.55.1814	

• If all devices need to be upgraded, information similar to the following is displayed:



- o Tap Update to upgrade all devices to the latest version in one-click mode.
- Tap **Schedule Update** and set the scheduled upgrade time. Ruijie Reyee App will upgrade all devices at the scheduled upgrade time.

19:22 🛛 🎕		ю ∜я 32%≣
	Update	
The dat	e and time represent the network	time zone
2022-08-17		
20:00(Best)	21:00 22:00	23:00
	Incel Of	
Ua.	incer Of	

# 3.3 Tool kit

## 3.3.1 Heat Map

It's an AI-based site survey tool that can automatically locate access points, calculate Wi-Fi signal coverage using different colors, and show the recommended type and number of Reyee APs for you. All you need to do is just import an image of your building layout.

By the way, manually locating access points is also supported.

<	Heat Map	
Intuitive	Signal Visible	Мар
	()	
History		( e
	1051_1684948332 23-05-25 01:12	nload
	Start	





## 3.3.2 AR Roaming Test

The AR Roaming Test feature, empowered by augmented reality technology, allows you to move your phone to various test points to intuitively see the location of the roaming switch point and the AP and signal strength before and after the switch. It provides a more intuitive and convenient way to test the quality of the wireless network and the roaming effect. After the test is complete, a report of the trajectory and switching points can be automatically generated, along with optimization suggestions.

If your phone model is not supported, you can provide feedback to us based on the page reminder.

1. Click on **Tool kit > AR Roaming Test** to enter the feature page.



2. Click on AR Roaming Test to start the test (there might be about a 5-second delay after clicking, please avoid turning off your phone screen after clicking). Clicking on Parameter Settings allows you to adjust the name of the Wi-Fi connection for the test, the destination address for the Ping test, the time interval, and the packet size.



3. Hold your phone upright and rotate the lens left and right. After the start-up prompt is complete, keep your phone upright and walk in the wireless coverage area, always pointing the phone lens in the direction you are walking. Avoid turning off your phone screen during this process. The APP will automatically test, display, and record the wireless network status and roaming information at each location along the path.





4. After walking the entire route, click on the 'x' in the lower-left corner to end the test. Click on View Report to see the roaming test report for this test, which includes a path signal strength roaming map, Wi-Fi name, number of roams, number of packet losses: number of packet losses when no roaming occurs, packet losses during roaming switch: number of packet losses occurring during roaming switch, average signal strength, average latency, packet loss rate, average negotiation speed; optimization suggestions for poor roaming effect; network status record for each roam; signal strength and latency trend, etc.



5. Click on **Recommended action** to optimize the wireless roaming configuration.



## 3.3.3 PoE Calculator

#### **Application Scenario**

The PoE calculator will help you to learn about appropriate PoE devices through PD information input.

#### Procedure

(1) Tap **Toolkit, PoE Calculation** and enter PD information.





Not what you're looking for?Tell Reyee your suggestions



(2) Enter PD device information, including Ruijie devices (select the device's number) and other devices (select the device's number and rated power).

<	PoE Ca	PoE Calculator		About Pol
Input PD	devices Info			
Ruijie De	vices			
RG-RAP: 12.95W	2200(E)	-	1	+
RG-RAP: 12.95W	2200(F)	-	1	+
RG-RAP 8W	1200(F)	_	1	+
	~ N	lore		
Other De	vices			
Other De Camera • 12W	vices	-	3	+

(3) The PoE calculator will calculate the recommended power and ports, and then will display recommended devices.

7:31			<b>atil</b> 46 🔳
<	PoE Ca	alculator	About PoE
Required	PowerW: 82.0	)5W, Require	d Port(s): 6
118.0	WO		8
Recommend	ed Power	Recomme	nded Port(s)
		gin have been ormation is for	taken into reference only.
Recommen	ded Device	s:	
		9 <b>-P</b> orts) (8 POE J45 PORT)	Ports
C			
	1	99GC-P J45 Ports Ports) (120)	W POE)
Return for c	orrection	Other P	oE switches

## 3.3.4 Speed Test

## Procedure

Connect to Wi-Fi and tap Speed Test to perform speed test.

11:12 🕇		al 🗢 🚯
	Connected: tests	ssid
ISP China Mobile	1	
	-	
	17.60мыр	
	Testing Upload Sp	
1	5.86Mbps -	-Mbps
+0	ownload Speed †Up	load Speed
1:12 7		
1:12 7	Speed Test Rep	
	Speed Test Rep red is equal to <b>16</b> M	ort
The spe	ed is equal to 16N	ort <b>//</b> bandwidth.
The spe Upload/Dov 15.	red is equal to 16N wnload Speed 86Mbps	ort
The spe Upload/Dov 15.	red is equal to 16N wnload Speed 86Mbps	ort V bandwidth. 10.46Mbps
The spe Upload/Dov 15.	red is equal to 16N wnload Speed 86Mbps	ort V bandwidth. 10.46Mbps
Upload/Dov 15. + Down	ed is equal to 16M writoad Speed 86Mbps nitoad Speed	ort M bandwidth. 10.46Mbps Upload Speed
The spe Upload/Dov 15. + Down	ed is equal to 16M writoad Speed 86Mbps nitoad Speed 1	ort M bandwidth. 10.46Mbps Upload Speed
The spe Upload/Dov 15. + Down	ed is equal to 16M writoad Speed 86Mbps nitoad Speed	ort M bandwidth. 10,46Mbps tUpload Speed ideos. bps
The spe Upload/Dov 15. + Down Video Spee Video Spee SD	ed is equal to 16N whoad Speed 86Mbps nload Speed nload Speed u can enjoy Blue-ray v ading Speed: 15.86M HD Full HD	ort M bandwidth. 10.46Mbps tUpload Speed ideos. bps
The spe Upload/Dov 15. + Down Video Spee SD Game Spee	ed is equal to 16N whoad Speed 86Mbps nload Speed nload Speed u can enjoy Blue-ray v ading Speed: 15.86M HD Full HD	ort M bandwidth. 10.46Mbps Upload Speed ideos. ops Blue-ray
The spe Upload/Dov 15. Down Video Spee SD Game Spee	ed is equal to 16N writoad Speed 86Mbps Inload Speed Inload Speed Indone Speed Indone Speed: 15.86M Indone Full HD Full HD Indone Speed: 15.86M	ort M bandwidth. 10.46Mbps Upload Speed ideos. ops Blue-ray

- **RSSI**: indicates the signal strength of Wi-Fi.
- **Connection Type**: indicates the band the current user to which is connected.
- **ISP**: indicates the ISP which the current user is connected to.
- **Download Speed**: indicates the current user download speed.
- **Upload Speed**: indicates the current user upload speed.
- Video Speed: indicates the loading speed for video.
- Game Speed: indicates the average latency for the current user.



## 3.3.5 Tech Support



# 3.4 Others

## 3.4.1 CCTV

### **Application Scenario**

In Closed Circuit Television (CCTV) scenarios, the switch will automatically detect and prevent loops. When any loop occurs on the switch, you will receive an alarm.

### Procedure

- (1) Tap **Project** and select a project.
- (2) At the top of the app, tap **CCTV**.
- (3) Enable the NVR.



(4) Tap **NVR Login**, **Add NVR**, enter the NVR's IP address, username and password, and tap **Save**. Then you can monitor the camera status.

<	Add NVR	
Alias *	Test	
Internal IP *		
192.168.110.	7	
Username *	Trest	
Password *	Lgfyhvff	
Vendor *		Hikvision >
Vendor *		Hikvision >

(5) Enable loop prevention on all switches.

	10 46 11.111 📀	16:40 €
<	ссту	
Loop Pi	revention	NVR Login
	ll automatically det iny loop occurs on t rm.	
Enable All		
•	Switch NBS3200-4	8GT4XS
• HHEEHERAN	Switch NBS3100-2	4GT4SFP-P
• HHEEHESHERAnnen	Switch NBS3100-2	4GT4SFP-P
• HHEHHERMANN	Switch NBS3100-2	4GT4SFP-P
• • ••••••••••	Switch ES218GC-F	

## 3.4.2 IP MGMT

**Application Scenario**
- (1) Select the IP address range that the device needs to focus on and manage. You can view the status of clients of which IP addresses are in the range, facilitating management and maintenance. Select a project.
- (2) Tap Scenario, tap IP MGMT.



(3) Tap Enable to start IP management.



(4) Select the VLAN ID and IP address range for the device.

11:25	4	'미 승 🕅	3
<	Select	VLAN	
Please s manage	elect the VLAN of the c	levice that you want to	
0	VLAN 1(192.168.110.1	/24)	
$\bigcirc$	Guest_Wi-Fi(192.168	.177.1/24)	
0	VLAN 233(192.168.1	10.1/24)	
(	0		
	0		
<	IP MO		
	IP MC	GMT = IPs	
	IP MO	GMT	
- :	IP MC Service IP Segment 1 = Used IPs 15	EMT = IPs 254	
• 192	IP MC Service IP Segment 1 = Used IPs	= IPs 254 = Usage 5.9%	
• 192	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLM123 .168.110.1-192.168.11	EMT = IPs 254 = Usage 5.9%	
VLAN : • 192 • IPs:	IP MC Service IP Segment 1 = Used IPs 15 233-1 VGAV233 .168.110.1-192.168.11 254 • Used IPs:15 + A	EMT = IPs 254 = Usage 5.9%	
VLAN 2 • 192 • IPs:	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLXX23 .168.110.1-192.168.11 254 • Used IPs:15 + A wrk planning	EMT = IPs 254 = Usage 5.9%	
VLAN 2 • 192 • IPs: Netwo	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLAN 233 .168.110.1-192.168.11 254 • Used IPs:15 + A ork planning Access	SMT = IPs 254 = Usage 5.9% 0.254 • Type:DHCP • Usage:5.9%	
VLAN 2 • 192 • IPs: Netwo	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLAN 233 .168.110.1-192.168.11 254 • Used IPs:15 + A ork planning Access	SMT = IPs 254 = Usage 5.9% 0.254 • Type:DHCP • Usage:5.9%	
VLAN 2 • 192 • IPs: Netwo	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLAN 233 .168.110.1-192.168.11 254 • Used IPs:15 + A ork planning Access	SMT = IPs 254 = Usage 5.9% 0.254 • Type:DHCP • Usage:5.9%	
VLAN 2 • 192 • IPs: Netwo	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLAN 233 .168.110.1-192.168.11 254 • Used IPs:15 + A ork planning Access	SMT = IPs 254 = Usage 5.9% 0.254 • Type:DHCP • Usage:5.9%	
VLAN : • 192 • IPs: Netwo	IP MC Service IP Segment 1 = Used IPs 15 233-1 VLAN 233 .168.110.1-192.168.11 254 • Used IPs:15 + A ork planning Access	SMT = IPs 254 = Usage 5.9% 0.254 • Type:DHCP • Usage:5.9%	

### 3.4.3 Intranet Access

#### **Application Scenario**

You can add a remote management tunnel to access the NVR and other vendors' devices on the intranet.

#### Procedure

(1) Tap Workspace, tap Intranet Access.



(2) Click Enable to configure the tunnel for intranet access.

<	Intranet Access
Er	nabled on 2000+ Reyee projects.
	Add a remote management tunnel to access the NVR and other vendors' devices in the intranet.
	How to enable
	Config Step 1 Configure the tunnel for intranet access
	<ol> <li>2 Enable the tunnel</li> <li>3 Select a proper management way</li> </ol>

(3) Enter the device's IP address and port number to create a tunnel.

Type Internal IP The internal IP of device.  Port 80	Alias Please enter the alias Type  NVR E Other Vendor  Internal IP of device.	1		
Type Internal IP The internal IP of device. Port 80	Type Internal IP The internal IP of device.  Port 80	`	Add	
Internal IP The internal IP of device. Port 80	Internal IP     The internal IP of device.       Port     80	Alias		
Internal IP The internal IP of device. Port 80	Internal IP The internal IP of device. Port 80	Туре		
Port 80	Port 80		R E Other Vendor	
		Internal IP		
HTTP: 80. HTTPS: 443	HTTP: 80, HTTPS: 443	Port	80	
			HTTP: 80, HTTPS: 443	
	Save			

#### 3.4.4 Scenario

#### **Application Scenario**

Ruijie Reyee App has built-in scenarios and corresponding network parameter settings. You can select corresponding templates according to actual usage scenarios of your project to optimize network parameter settings and improve the user experience.

#### Procedure

- (1) Tap Project and select a project.
- (2) At the top of the app, tap Settings.
- (3) Select a scenario as needed.

< DemoProject1 🧳 🤌 🗄					
合 Office(BYOD)	Office(BYOD) • Online devices 11				
⊙ Uptime 0d 0h					
C	Device Netw	ork 🖧			
G Workspa		0			
Basic	Advanced	Scenario			
∱ Office ≓					
0	备	Œ			
BYOD	Network Planning	Flow&APP Control			
20	88	5			
User Management	Guest Wi-Fi	IP MGMT			
<b>•</b>	R				
Intranet Access CCTV					
(HD)	≝all 📀 – I	19:23 ₪ ו			
< DemoProje	ect1 /	<b>?</b> ~ ∶			
<ul> <li>▲ Office(BYOD)</li> <li>⊘ Uptime 0d 0h</li> </ul>	<ul> <li>Online devices</li> </ul>	11			
De	evice Network	с <u></u> &			
<b>A</b>					
< -	Toggle Scene				
loggie seene					
Office		Hotel			
Villa/Home	Factor	ry/Warehouse			
Restaurant		School			
Retail/Shop	R	esidence			
Customize					

#### 3.4.5 Guest Wi-Fi

#### **Application Scenario**

You can create a guest Wi-Fi for visitors. The clients connected to this Wi-Fi can access the Internet only but cannot access the internal network.

#### Procedure

- (1) Tap **Project** and select a project.
- (2) Tap Scenario, tap Guest Wi-Fi.



(3) Click Enable to configure the guest Wi-Fi.



(4) Configure the SSID and password.

Encryption Encryption Advanced Settings  Band Advanced Settings  Band Set	WLAN Access     Subnet Param     Config Delivery       Name/SSID     Guest       Encryption     Image: Config Delivery       Password     Image: Config Delivery       Encryption     Image: Config Delivery       Advanced Settings >     Image: Config Delivery       Band     Image: Config Delivery       240     The 24.6 Of the band provides a larger coverage ones and is power speak.	11:21 🕫		al 🗢 🕪
WLAN Access     Subnet Param     Config Delivery       Name/SSID     Guest       Encryption     Image: Config Delivery       Password     Image: Config Delivery       Encryption Mode     Image: Config Delivery       Band     Image: Config Delivery       2.4G     Image: Config Delivery       Band     Image: Config Delivery       SG     Image: Config Delivery	WLAN Access     Subnet Param     Config Delivery       Name/SSID     Guest     Image: Config Delivery       Encryption     Image: Config Delivery     Image: Config Delivery       Password     Image: Config Delivery     Image: Config Delivery       Band     Advanced Settings     Image: Config Delivery       Band     Config Delivery     Image: Config Delivery       Config Delivery     Config Delivery     Image: Config Delivery       Band     Config Delivery     Image: Config Delivery       Config Delivery     Config Delivery     Image: Config Delivery       Config Delivery     Config Delivery     Image: Config Delivery       Config Delivery     Config Delivery	<	Add	
Encryption Encryption Advanced Settings  Band Advanced Settings  Band Set	Encryption  Encryption  Password  Encryption Mode  Advanced Settings  Advanced Settings	WLAN Acc		
Password Advanced Settings ~  Advanced Settings ~  Band 2.46 The 2.4 GHz band provides a larger coverage area and is brow re provides a larger coverage area and is slower genedia. SG	Password   Password   Encryption Mode   Advanced Settings   Band  2.46  The 2.4 Okt band provides a larger coverage area and is  better ef penetrating solid objects, but it transmits data at  slover speeds.  66  76  76  77  78  78  78  78  78  78	Name/SSID	Guest	
Encryption Mode > Advanced Settings > Band 2.46 Detter at penetrating solid objects, but it transmits data at slower speeds. 56	Encryption Mode > Advanced Settings > Advanced Settings > Band 2.46 The 2.4 GHz band provides a larger coverage area and is bother ard powertange solid objects, but it transmits data at solver speeds. 56 The 5 GHz band provides larger coverage but transmits	Encryption		
Advanced Settings V Band 2.4G The 2.4 GHz band provides a larger coverage area and is where as penetrating solid objects, but it transmits data at slower speeds. 5G	Advanced Settings >> Band 2.46 The 2.4 GHz band provides a larger coverage area and is better at powertrating solid objects, but it transmits data at slower speeds. 56 The 5 GHz band provides less coverage but transmits	Password		~
Band 2.46 The 2.4 GHz band provides a larger coverage area and is better at ponetrating solid objects, but it transmits data at slower speeds. 56	Band 2.46 The 2.4 GHz hand provides a larger coverage area and is better et penetrating solid objects, but it transmits data at slower speeds. 56 The 5 GHz band provides less coverage but transmits	Encryption M	ode	>
2.4G The 2.4 GHz band provides a larger coverage area and is better at ponetrating solid objects, but it transmits data at solver speeds. 5G	2.46 The 2.4 GHz band provides a larger coverage area and is better at ponetrating solid objects, but it transmits data at slower speeds.     56     66 Hz band provides less coverage but transmits		Advanced Settings	~
		2.4G The 2.4 GHz ba better at penetr slower speeds. 5G The 5 GHz band	ating solid objects, but it i	transmits data at

(5) Configure the VLAN ID and speed limit.

<	Add
WLAN	Access Subnet Param Config Delivery
Name	Guest_Wi-Fi
VLAN ID	231
	Advanced Config ~
Default Gat	eway/Subnet Mask 192.168.177.1/24 >
automatically	d, the connected clients can
	t download speed $\leq$ 1.3MB/s and the load speed $\leq$ 0.1MB/s.
Downlink B	andwidth (Mbps):
10	
Uplink Band	dwidth (Mbps):
1	

(6) Check whether the configuration is correct.

11:22 🕇				all 🕈 👪
<		Add		
•		• -	_	•
WLAN Ad	cess	Subnet Par	ram	Config Delivery
onfiguratio	192.16 ons will	8.177.1~1 be delive	192.1 ered	Wi-Fi, 68.177.254) the to the following nd tap OK.
	AP			
Configurat SSID Gues		ord 8888	8888	
_	Ruijie_	_EG105G-I	P-V2	
	SN:EG	3494257	0019	
Configurat	ion :			
1, Add por 255,255,25		231, IP 192	2.168.	.177.1, subnet mask
	7.1, end	address 1	92.16	tart address 8.177.254, DNS ins
_	ruijie_	ES209GC	-P	
	SN:CA	QC1GF02	4240	

(7) Deliver the configuration to the AP.



## **4** Product

## 4.1 **Product Information**

You can query Ruijie and Reyee product information, including product pictures and key parameters.



You can filter required devices according to different conditions.



## 4.2 My Product

#### **Application Scenario**

You can add the products that need to be customized.

#### Procedure

(1) Tap My Product.

(3)

#### (2) Go to Settings > Add Product.

	🖾 2111 😒	(1) * (1)	🛿 🕪 19:28
Product	My Product	BOM	
	- 1 U		
Q Name	or feature		Search
2	2	2	2
Gateway	Switch	Wireless	Other
			@
	No M	lore Add Prod	uct
		Import	
		Template	
		Custom T	Vna
		Custom	ype
5	<b>)</b> 8	8 0	ප
SaleForce	Product Proj	ect Communit	у Му
E ata a	ana du at in		
Enter	product ir	iormati	on.
15:06 🖸 🕯		22.00 Krs 留利 号 HD	%∣53%≜
<	Custo		
	ousio		
* Model	Please enter the	model.	

13.00 🖬 🖷	K/s 36 41 42 49 49 30 30 10	
<	Custom	
* Model	Please enter the model.	
* Туре	Please select the product type.	
* Unit	Pcs	
* Description	Please enter the product description.	
Vendor	Please select the vendor.	
Tag	Product performance, appearance etc.	



(4) Click Add. Products on the list are displayed.

	💷 🤐 🖬 📀	(L) * Q + (	]ŧ 🝉 19:29
Product	My Product	BOM	
Q Name	or feature		Search
R	R	R	a
Gateway	Switch	Wireless	Other
ຊ	EG105G text		:
	No M	lore	
SaleForce	Product Proje	ect Community	My

## 4.3 BOM

You can try AI BOM and manual BOM.

ा स्त्रा 🔊 Product My Product 🖪	N \$0 101 € 19:30
Q BOM Name	Search
AI BOM Recommended for	r you by Al
All Items (1)	Filter <b>Y</b>
eee Universal 2023.06.16	:
No Me	re
SaleForce Product Proje	t Community My

#### 4.3.1 AI BOM

**Application Scenario** 

AI BOM is used when you know project requirements but are unclear about product models and quantities.

#### Procedure

(1) Enter the BOM name and select a scenario.

	🖾 👘 🖓	№ \$0 19:30	
<	Add BO	м	
BOM Nam	e		
Please en	ter the BOM na	me.	
⊕ <sup>*</sup> Scenario			
Universal	Villa/Home	Office Hotel	
Retail/Shop	School	Dormitory/Tenant	
Factory/Warehouse Restaurant			
a Network Scale			
① Wired	⊕ CCTV	$\oplus$ WLAN	



(2) Add the network scale, including wired, CCTV, and WLAN settings.



(3) Create a BOM.



(4) Tap **Use It** to generate the BOM.



- (5) Check BOM details.
- Display the scenario and devices.

		Preview	
Test1			
	Univers	al • CCTV • WLAI	v
3 Client	10 Camera	1 Single Room	1, 2 Inde
Standa	rd	Premium	Economic
OM			
		Name	Qty
/pe		Name RG-EG105G	Qty 1
/pe ateway			1
vpe iateway oE Switch		RG-EG105G	1
30M vpe iateway oE Switch cccess Swi		RG-EG105G RG-ES218GC-P	1
/pe ateway oE Switch ccess Swi		RG-EG105G RG-ES218GC-P RG-NBS3100	1 1 1

#### • Display BOM features.



• Display details of devices.

	Preview	
Standard	Premium Economie	C
ateway		
	RG-EG105G	
	5-Port Gigabit Cloud Managed	2
	router, 5 Gigabit Ethernet connection Ports, support up to 2	
jghj	WANs, 100 concurrent users, S00Mbps.	
		X 1
itch		
E Switch		
	RG-ES218GC-P	
	18-Port Gigabit Smart POE Switch,	2
	16 Gigabit RJ45 Ports including 16 POE/POE+ Ports, 2 SFP Slots, 240W PoE power budget, 13-inch Rack-	
	mountable Steel Case	X 1
		A.1
ccess Switch	RG-NBS3100-24GT4SFP	
	KG-NB55100-24G145FF	
Edit	Export to Excel	
:38 🕫	Export to Excel al 🕈 Preview	
: <b>38 √</b> Standard	Export to Excel	
Standard	Export to Excel al 🕈 Preview	
<b>:38 √</b> Standard /ireless	Export to Excel	
0:38 ◀ Standard Vireless	Export to Excel	c
):38 ≠	Export to Excel  Export to Excel  Preview  Premium Economi  RG-RAP1200(F)  AC1300 Dual Band Wall Access Point, B67Mops at 5G174 + 400Mops at 2.4G174, 2 U100base E Eduard port include 1 uplink port, Internal Antennas, support	
<b>:38 √</b> Standard /ireless	Export to Excel  Export to Excel  Preview  Premium Economia  RG-RAP1200(F)  AC1300 Dual Band Wall Access Point, 86/Hops at SGHz + 400Mbps at 2.44Hz, 210/10Dasa E themat port include 11 uplik port , Internal	c L
Standard Arreless Vall	Export to Excel  Export to Excel  Preview  Premium Economi  RG-RAP1200(F)  AC1300 Dual Band Wall Access Point, B67Mops at 5G174 + 400Mops at 2.4G174, 2 U100base E Eduard port include 1 uplink port, Internal Antennas, support	c
Standard freeless Vall	Export to Excel	c L
Standard	Export to Excel	¢ X 1
Standard reless /all	Export to Excel Preview Premium Economia Premium Economia CC-RAP1200(F) AC1300 Dual Band Wall Access Proint, 867Mbps at 5GHz + 400Mbps at 2.4GHz, 210/10Dbase Ethernet port include Tuplick port, Internat Antennas, support 802.11a/br/gn/ac: Wave1 Wave2 RG-RAP2200(E) AC1300 Dual Band Ceiling Mount Access Point, 857Mbps at 5GHz +	c L
Standard reless /all	Export to Excel Preview Premium Economia Premium Economia C	¢ X 1
:38 √ Standard rreless fall	Export to Excel	¢ X 1
:38 √ Standard rreless fall	Export to Excel	¢ X 1
:38 √ Standard rreless fall	Export to Excel	د لا لا لا
38 √ Standard reless all eiling	Export to Excel	د لا لا لا

• Display the topology. The BOM can be exported in Excel format.

	Preview	
Standard	Premium	Economic
opology		
	Gateway Category alphotosia	Ģ
		•
	Seen Contract	Switch Switch No. with Price Line Chapter
	-	
Contact		
Name:	Phone:	
Company:		

#### 4.3.2 Manual BOM

#### **Application Scenario**

Manual BOM is used when specified products are selected and added. The BOM can be completed in 1 minute.

#### Procedure

(1) Select and add specified products manually.





(2) Enter the BOM name.



- (3) Check BOM details.
- Display the scenario and devices.

10:40 7		al 🕈 👪
<	Product	
Test3		
Unive	ersal	
Standard	Premium	Economic
BOM		
Туре	Name	Qty
Gateway	RG-EG105G V2	1
Access Switch	RG-NB53200	1
Access Switch	RG-S2952G	1
Wall	RG-RAP1200(P)	1
Ceiling	RG-RAP2200(F)	1
Customize	τu	3
Edit	Export to	Excel

#### • Display BOM features.



• Displays details of devices.

2		
<	Product	
Standard	Premium Economi	с
Gateway		
	RG-EG105G V2	
ghjghj	5-Port Gigabit Cloud Managed router, 5 Gigabit Ethernet connection Ports, support up to 2 WANs, 100 concurrent users, 600Mbps.	L
		X 1
Switch		
Access Switc	h	
	RG-NBS3200-48GT4XS	
Constanting	48-Port L2 Managed 10G Switch, 48 Gigabit RJ45 Ports,4 *10G SFP+ Slots,19-inch Rack-mountable Steel Case	
		X 1
	RG-52952G-E V3	
Edit	Export to Excel	
10:40 7	না ক Product	
10:40 + < Standard	না ব Product	
10:40 T Standard Wireless	না ব Product	
10:40 T Standard Wireless	না ব Product	
10:40 7	Product Premium Economi	c Z
10:40 7 Standard Virreiess Wall	Product Premium Economi RG-RAP1200(P) AC1300 Dual Band gigabit wall plate AP, 4 front LAN ports, including 1 stradard 802.34 PGE ou port, bullkin antennas, 1 gigabit uplink port, dual-band 2.4GHz/SGHz, 802.11afLvg/n/ac; Wave1/Wave2, up to 122/Nbgs access rate per AP, support AP2 routing mode, Layer 3 roaming, Ruijie Cloud app management; Support 802.34/at PdE (PGE and local power adapters sold	c Z
10:40 7 Standard wireless	Product Premium Economi RG-RAP1200(P) AC1300 Dual Band gigabit wall plate AP, 4 front LAN ports, including 1 stradard 802.34 PGE ou port, bullkin antennas, 1 gigabit uplink port, dual-band 2.4GHz/SGHz, 802.11afLvg/n/ac; Wave1/Wave2, up to 122/Nbgs access rate per AP, support AP2 routing mode, Layer 3 roaming, Ruijie Cloud app management; Support 802.34/at PdE (PGE and local power adapters sold	c L
10:40 7 Standard Virreiess Wall	Product         Premium       Economi         RC-RAP1200(P)         AC1300 Dual Band gigabit wall plate AP, 4 front LAN ports, including 1 stradard 802 al/9 POE out port, built-in anternas, 1 gigabit uplink port, dual-band 2.4GHu/SGHu, 802.11a/kg/Maz wave 1.Wave 2. Unable and 2.4GHu/SGHu, 802.11a/kg/Maz ucoss rate per AP, tupport AP/ routing mode, Layer 3 roaming, Ruije Cloud app management: Support 802.2Mar POE (POE and local power adapters sold separately)	c L

• Display the topology. The BOM can be exported in Excel format.

	Product	
Standard	Premium	Economic
pology		
	9	
	Trees	Ģ Đ
	General General Inc. 201005-10	٦
-	Sent C	Test
	-	
an addressor	10, 447 (2007)	
ontact		
ame:	Phone:	
mpany:		

# **5** Community

## 5.1 Topics

**Topics** provides several types of documents to help you obtain documents such as PoC guides, cookbooks, and battle cards.

You can search documents by entering keywords.

Topics	Videos
All Community	
Search Key Words	Q T Filter
Latest Featured Follow New Reply	ed 🕂 🕂
<b>C</b> [Topic Discussion] Do you hav to solve the power issue in the rem Topic Discussion Other	
👁 103 💷 1 🕐 2023-06-14	<b>★</b> Follow
802.1x Authentication with Ruiji VLan Assignment on Ruijie Cloud Switch Wireless Cloud	e And Dynamic
<ul> <li>⊙ 310 III 2 Ø 2023-06-09</li> </ul>	★ Follow
[Mesh Wi-Fi Feedback] Fee to get a Free Mesh Wi-Fi! Activities Feedback Mesh Wi-Fi	Official edback your ideas
👁 1851 💷 12 🛛 2023-06-01	★ Follow
[G] [Knowledge Base] Ruijie Reye Knowledge Base	Official ee Mesh Wi-Fi
F. () R.	Community My

## 5.2 Videos

**Videos** provides scenario-specific configuration videos, which help users solve technical problems within just a few minutes.

Topics	Videos
	⊕English I ☆Collect
And the second of the second o	How to extend PoE distance to 100+ meters in CCTV projects 2022-03-11 @ 1000+ < Share POE iong distance
Page Hoyce Page How CTV America Made Pamera Mada Pamera Mada Pame	How to view CCTV camera via mobile phone remotely 2022-02-23 © 1000+ « Share CCTV IP camera remote control
How to Fast Restore Manage Configuration Manage Configuration Notework Devices	How to fast restore missing configuration 2022-02-09 © 1000+ <\$ bare gateway RujjecToud
How to Block APP on Reyret EG Router	How to Block APP on Reyee Router? 2022-01-13 © 1000+ <= Share Ruijecloud router
How to Enzy How to Enzy The Real Projects In Ruije Cloud APP	How to Enjoy The Real Project in Cloud APP 2021-12-09 © 1000+ « <sup>2</sup> <sub>0</sub> Share
SaleForce Product	Project Community My

6 му

 ${\bf My}$  displays information about the account and provides some tools to users.

=	$\bigcirc$
8 months Join Ruijie Cloud	•
© RCE	
Company Managemecreate a company	>
Bind Company Manager	>
Feedback	>
Attendance	>
Submit Syslog	>
Tech Support	>
SaleForce         Product         Project         Community	A My

## 6.1 Ruijie Official Website

Click it to browse the Ruijie official website.

	>
Asia Hosting	J
China	1
English	>
	>
Beta	>
lia	>
	>
	>
unt	
	China English Beta



## 6.2 Gateway Setup

#### **Application Scenario**

If there is an EG2100-P with an enterprise AP, you can set up the EG with Ruijie Reyee App.

#### Procedure

	¢
jialongg@yeah.net /	<b>→</b>
8 months Join Ruijie Cloud	
© RCE	
Company Managemecreate a company	>
Bind Company Manager	>
Feedback	>
Attendance	>
Submit Syslog	>
Tech Support	>
SaleForce Product Project Community	A My

#### Implementation Cookbook

	🖾 🖓 👁	N \$\$ () () ()	19:49
<	More		
About U	s		>
Cloud		Asia Hosting	l
Country		China	1
Languag	je	English	>
Time Zo Antarctio	ne :a/Vostok		>
Latency	Test	Beta	>
Ruijie Cl	oud Encyclope	dia	>
Ruijie O	fficial Website		>
Gateway	/ Setup		>
	Log out		
	Switch acco	ount	

(1) Power on the EG, configure AP to work in Fit AP mode, and connect the AP to a LAN port of the EG.



(2) Connect to the Wi-Fi named RJ\_XXXXXX, where XXXXXX indicates the last 6 digits of a device's SN.



(3) Click Setup and complete EG quick setup according to the video at https://www.ruijienetworks.com/support/video-1713.

## 6.3 About Us

You can tap About Us, to learn about Ruijie Cloud and check whether the APP version is the latest or not.

< About Us				
Ruijie Reyee				
Current Version V7.1.3				
About Ruijie Cloud	>			
Rate	>			
User Agreement   Privacy Policy				
More advanced features on Ruijie Cloud Web https://cloud.ruijienetworks.com Copy				

## 6.4 Feedback

You can submit the feedback to the APP team if you have any suggestion about the APP.

≡	$\bigcirc$
\$	*
8 months Join Ruijie Cloud	
RCE	
Company Managemecreate a company	>
Bind Company Manager	>
Feedback	>
Attendance	>
Submit Syslog	>
Tech Support	>
SaleForce Product Project Community	Angle My



## 6.5 Language

Select the APP language.

	¢
ilalongg@yeah.net 🦿	
8 months Join Ruijie Cloud	
RCE	
Company Managemecreate a company	>
Bind Company Manager	>
Feedback	>
Attendance	>
Submit Syslog	>
Tech Support	>
SaleForce Product Project Community	My

	III 🖏 🕗 4	▶ 🛛 80 IDI (m) 1	9:49
<	м	ore	
	About Us		>
	Cloud	Asia Hosting	
	Country	China	
I	Language	English	>
	Time Zone Antarctica/Vostok		>
	Latency Test	Beta	>
	Ruijie Cloud Encyclopedia		
	Ruijie Official Webs	site	>
	Gateway Setup		>
	Log	g out	)
	Switch	account	

## 6.6 Submit Syslog

#### **Application Scenario**

You can submit the syslog if Ruijie Reyee App cannot run properly.

#### **i** Instruction

Syslog is used by R&D for fault locating and troubleshooting. If you have any problems during usage, contact technical support engineers.

#### Procedure

(1) Tap **Submit Syslog** and **Send** to create a syslog message.



(2) After the syslog message is created successfully, tap **Copy** to copy the syslog message and send it to technical support engineers.

