



## Ruijie Cloud V3.4.1 User Guide

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## Audience

This manual is intended for:


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

## Obtaining Technical Assistance

- Ruijie Networks Website: <https://www.ruijienetworks.com/>
- Technical Support Website: <https://ruijienetworks.com/support>
- Case Portal: <https://caseportal.ruijienetworks.com>
- Community: <https://community.ruijienetworks.com>
- Technical Support Email: [service\\_rj@ruijienetworks.com](mailto:service_rj@ruijienetworks.com)
- Skype: [service\\_rj@ruijienetworks.com](skype:service_rj@ruijienetworks.com)

## Symbols

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 Important information. Contains helpful suggestions or references.

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 Use caution. Could result in equipment damage or data loss.

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# 1 Summary

Ruijie Cloud Service is Ruijie's easy and efficient cloud solutions for chain stores, small and medium-sized businesses and boutique hotels. The solutions include equipment deployment, monitoring, network optimization and operational lifecycle management; enabling customers with simple plug and play deployment and operation and maintenance. Meeting the needs for automatic cloud RF planning and user experience monitoring, it also supports mobile monitoring and alert, and fast provisioning by QR-Code scanning. At the same time it provides flexible wireless user access control features, including high security "One person, one machine and one password" PPSK, built-in cloud Portal and Facebook certification.

## KEY FEATURES

- Unified Device Management
- Fast Provisioning by Mobile APP
- Secure PPSK Authentication for Staff
- Captive Portal & Social Authentication for Guest
- Mobile APP Monitoring & Alarm

### Cloud Management

- Unified Device Management
- Flexible Group Configuration

### Mobile Operation

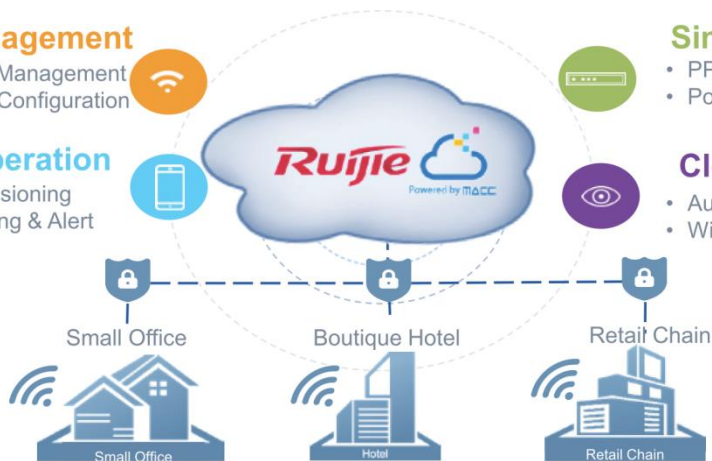
- Seamless Provisioning
- Mobile Monitoring & Alert Notifications

### Simplified Security

- PPSK Staff Authentication
- Portal Authentication (Social Login)

### Cloud Analytics

- Automated WiFi Optimization
- WiFi Experience Analysis



Ruijie Cloud Solution Highlights

## 2 Supported Browser

For browser, it is recommended to use the following versions or above.

Supported Browser	Version
Chrome	57.0.2987.133
Safari	10.1
Firefox	52.0.2

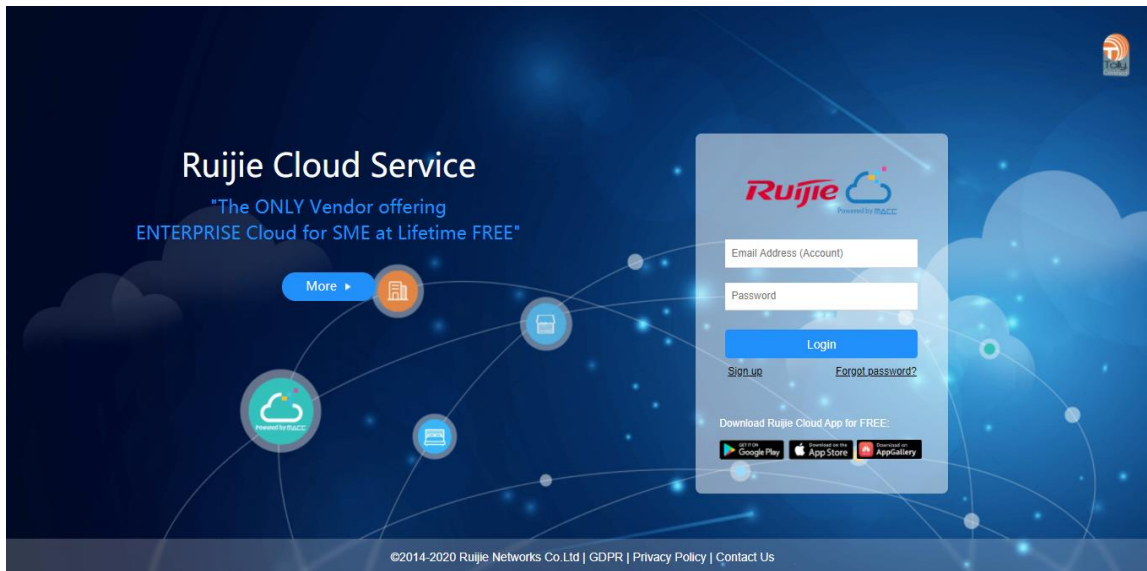
### 3 Addresses & Ports to be Permitted

Source IP	Destination IP	Src. port	Dst. port	Protocol	Description	Device using this rule
Your network	35.241.25.95	Any	80, 443	TCP	Ruijie Cloud login server	Browser
Your network	35.197.150.240, 35.234.108.108	Any	80, 443	TCP	Ruijie Cloud server	Browser
Your network	35.197.150.240, 35.234.108.108	Any	10000-12000	TCP	Ruijie Cloud server establishes the tunnel connection with the gateway	Gateway
Your network	35.197.150.240, 35.234.108.108	Any	3478, 3479,	UDP	Ruijie Cloud server delivers the CLI commands to the device	AP, Switch, Gateway
Your network	35.190.54.251, 35.186.215.129	Any	80, 443	TCP	Ruijie Cloud authentication server	STA
Your network	35.201.94.110, 35.190.93.193	Any	80, 443	TCP	Ruijie Cloud DNS	AP, Switch, Gateway

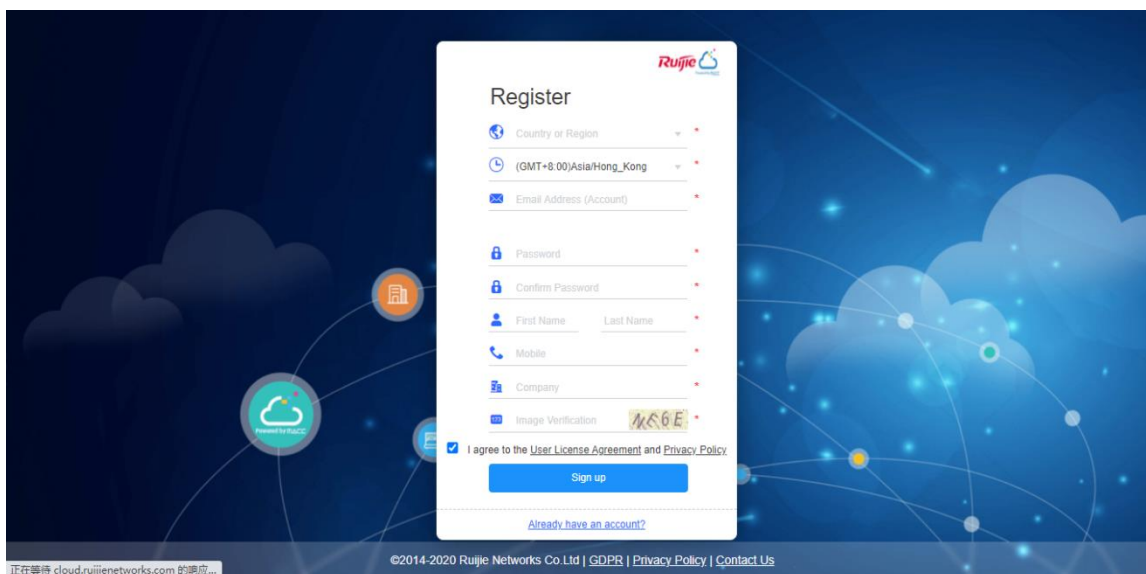
## 4 Register and Login

### 4.1 Register

1. Visit <https://cloud.ruijienetworks.com>.



2. Click **Sign up** to open the **Register** page.



3. Select your country or region.

Note: The Server Hosting is determined by country. Please choose your country correctly, or the device may fail to go online. When the selected country or region does not match the current server, the page will automatically refresh without affecting the registration.



# Register

Country or Region \*

- Afghanistan \*
- Albania
- Algeria \*
- American Samoa \*
- Andorra \*
- Angola \*

Company \*

Image Verification \*

I agree to the [User License Agreement](#) and [Privacy Policy](#).

[Sign up](#)

[Already have an account?](#)

4. Select your time zone.



# Register

Country or Region \*

(GMT+8:00)Asia/Hong\_Kong \*

- (GMT+8:00)Asia/Chongqing
- (GMT+8:00)Asia/Harbin
- (GMT+8:00)Asia/Hong\_Kong \*
- (GMT+8:00)Asia/Irkutsk
- (GMT+8:00)Asia/Kuala\_Lump
- (GMT+8:00)Asia/Kuching

Image Verification \*

I agree to the [User License Agreement](#) and [Privacy Policy](#).

[Sign up](#)

[Already have an account?](#)



5. Enter your Email address, and an activation Email will be sent after registration.

Note: One email address can be registered once only.

**Ruijie**  
Health APP

## Register

Country or Region \*

(GMT+8:00)Asia/Hong\_Kong \*

Email Address (Account) \*


Password \*

Confirm Password \*

First Name  Last Name \*

Mobile \*

Company \*

Image Verification  \*

I agree to the [User License Agreement](#) and [Privacy Policy](#).

---

[Already have an account?](#)

6. Enter and confirm the password.

Note: The password should be a combination of two or more items among numbers, letters and special characters in the length of 5 to 12 characters. Space is not supported.



# Register

\*

\*

\*

\*

\*

\*

\*

\*

\*

I agree to the [User License Agreement](#) and [Privacy Policy](#).

[Already have an account?](#)

7. Fill in the rest required information and click **Sign up**.
8. Open the activation Email in your mailbox and click the link to activate your Ruijie account.

Dear

Welcome to Ruijie Official Website and Ruijie Cloud!

To activate your account, please click the following link.

[Activate your account](#)

The activation link will expire after 15 day.

Follow Ruijie Partner Group on Facebook, to learn more on how to use/sell Ruijie products, and share your experience with thousands of other Ruijie partners.

[Join Ruijie Partner Group](#)

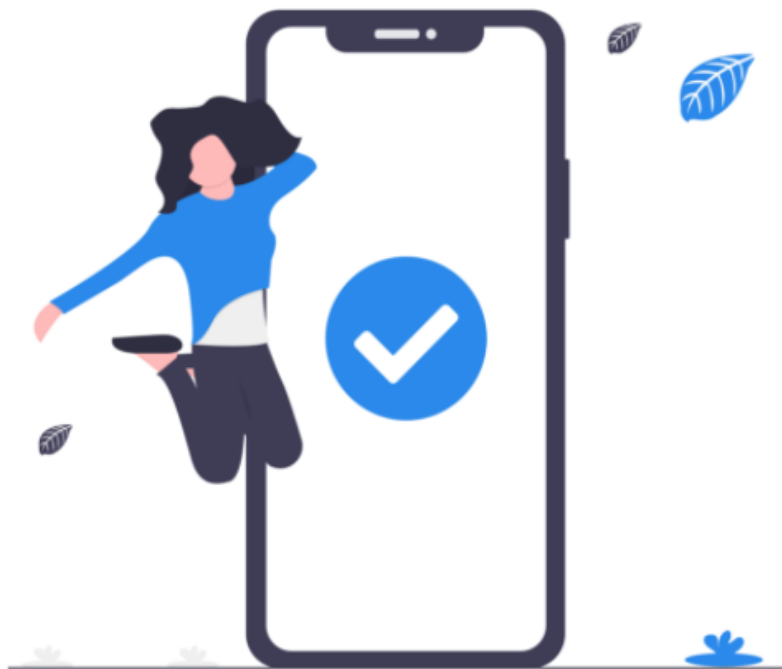
\*\*\*This is an automated Email. Please do not reply to this\*\*\*\*

Best Regards,

Ruijie Official Website & Ruijie Cloud Team

[info@mail.ruijie.com.cn](mailto:info@mail.ruijie.com.cn)

If your information is verified and saved, the registration succeeds.

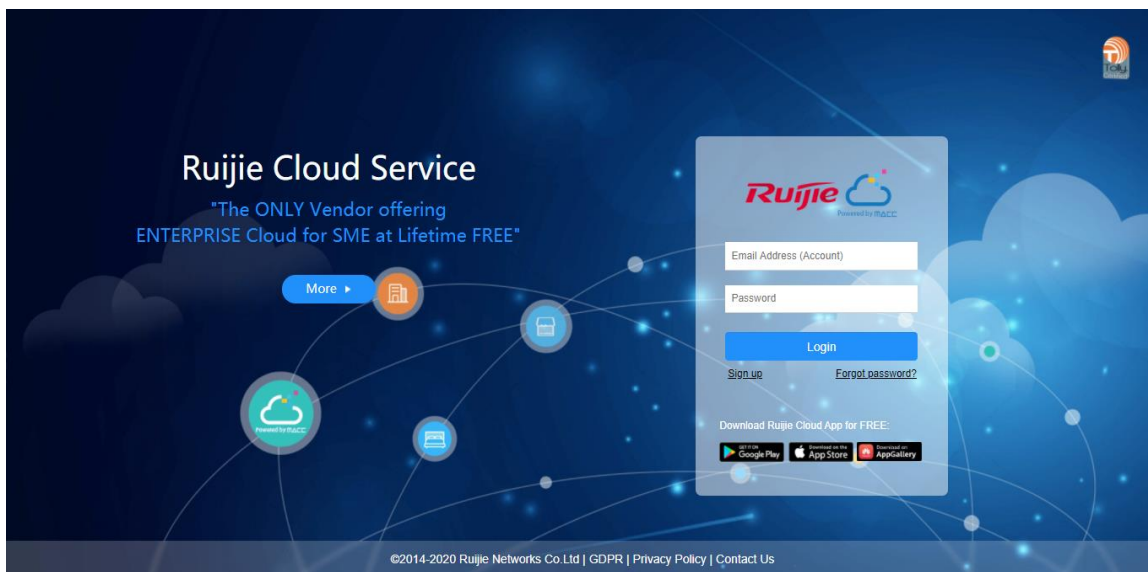


## Congratulations!

Your activation has been successful! Click [here](#) to log in to Ruijie Cloud.

## 4.2 Login

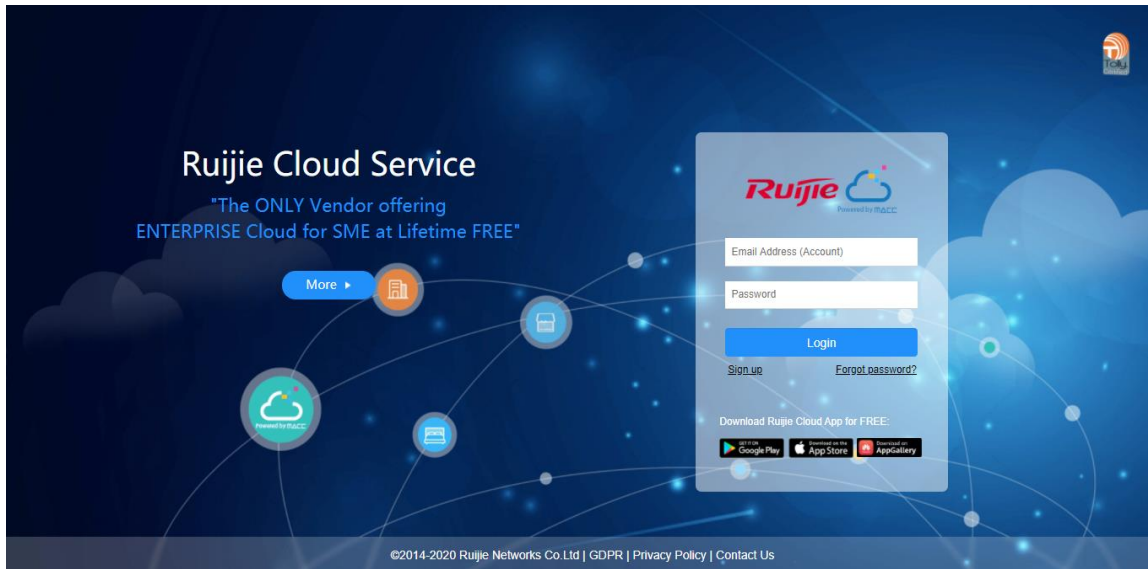
1. Visit <https://cloud.ruijienetworks.com>.



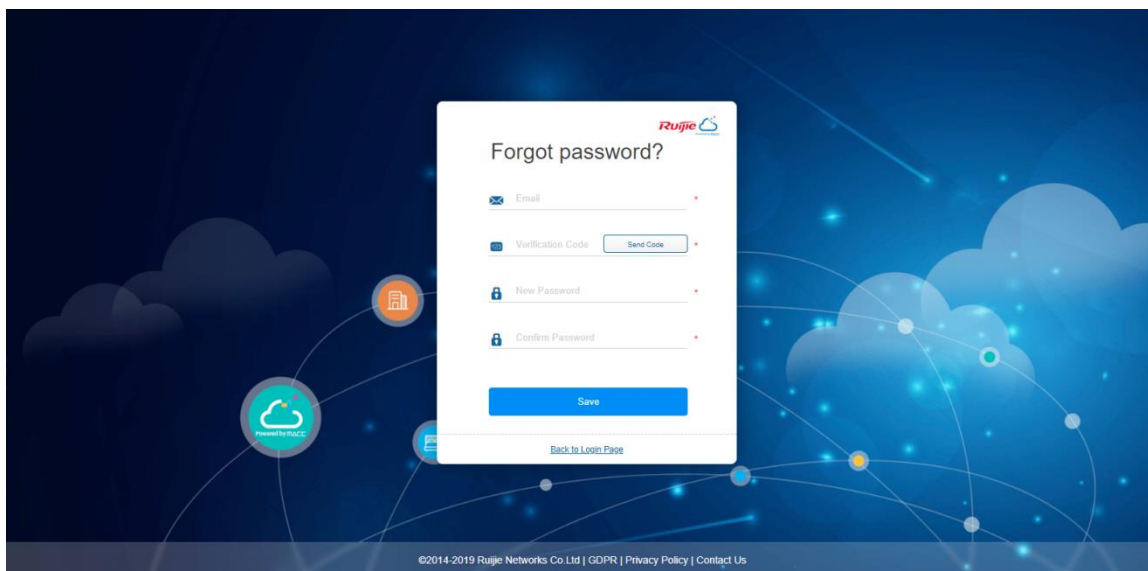
2. Enter your username and password, and click Login. After the information is verified, you can access the system.

## 4.3 Forgot Password

1. Click **Forgot password?** to open the **Forgot password** page



2. Enter your Email address, click **Send Code**, and enter the security code contained in the Email into the **Verification Code** box.



3. Enter and confirm the new password.

Note: The password should be a combination of two or more items among numbers, letters and special characters in the length of 5 to 12 characters. Space is not supported.

4. Click **Save**. If your information is verified and saved, you can use the new password to log into the system.

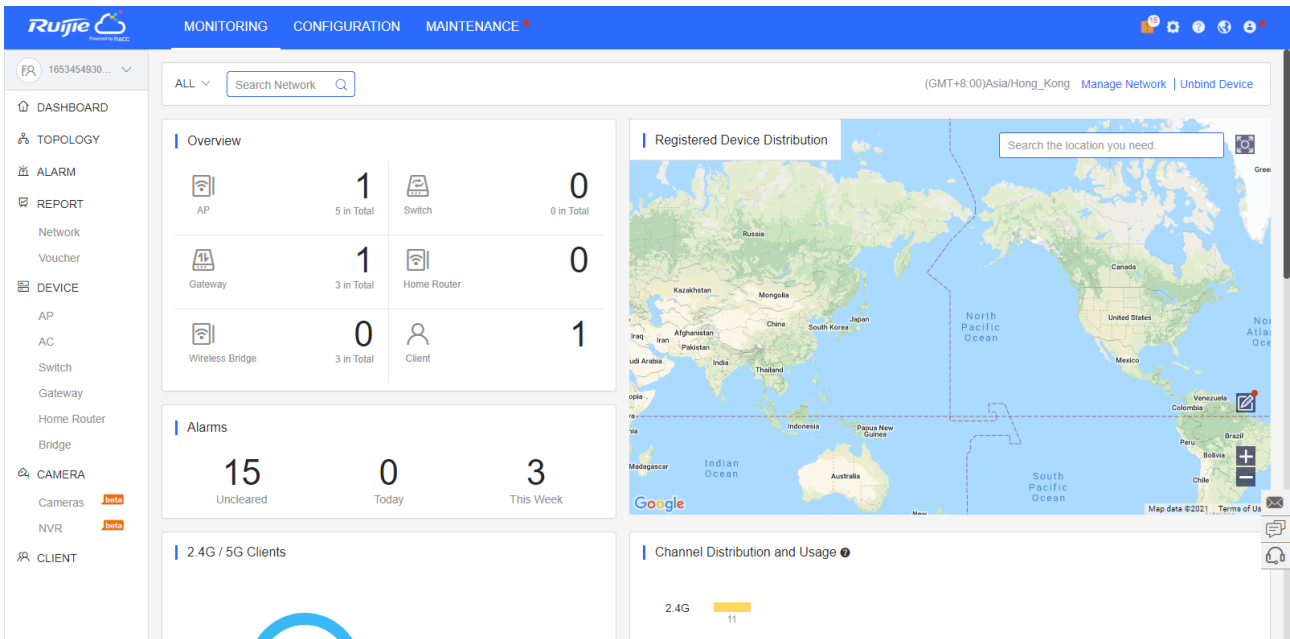
# 5 Monitoring

This part enables you to monitor the following items:

- DASHBOARD
- TOPOLOGY
- ALARM
- REPORT
- DEVICE
- CLIENT

## 5.1 DASHBOARD

After logging in, the **Dashboard** appears, or you can click **Dashboard** in the menu to open the page.

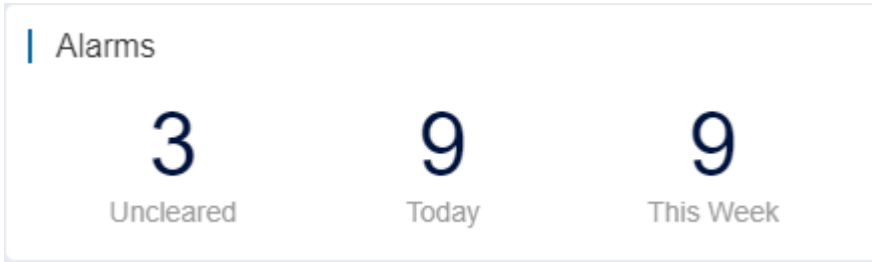


- Overview

Overview			
AP	1 1 in Total	Switch	1 1 in Total
Gateway	1 1 in Total	WiFi Router	0 1 in Total
Wireless Bridge	0 1 in Total	Client	0

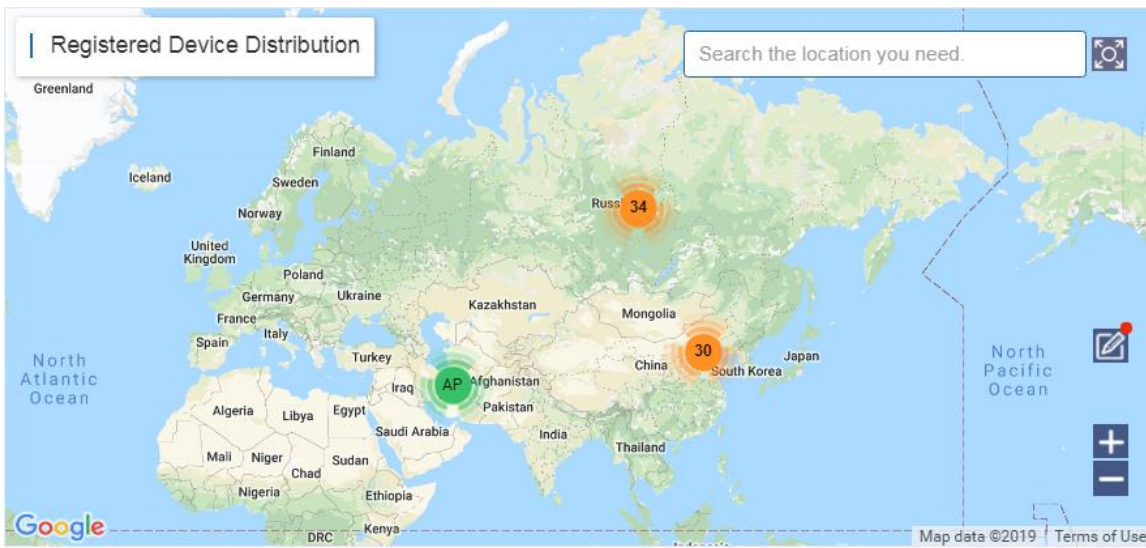
**Overview** displays the statistics of APs, switches, gateways and clients. The upper number indicates the number of online devices, and the lower number indicates the total number of devices.

- Alarms

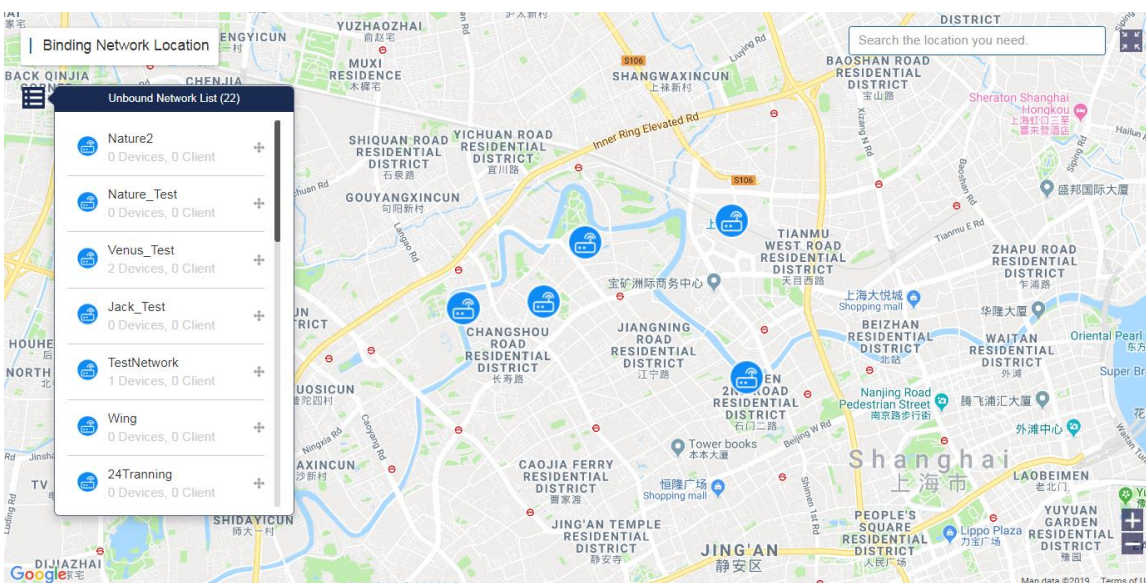


**Alarms** displays the number of uncleared alarms, new alarms today and total alarms generated this week.


- Registered Device Distribution



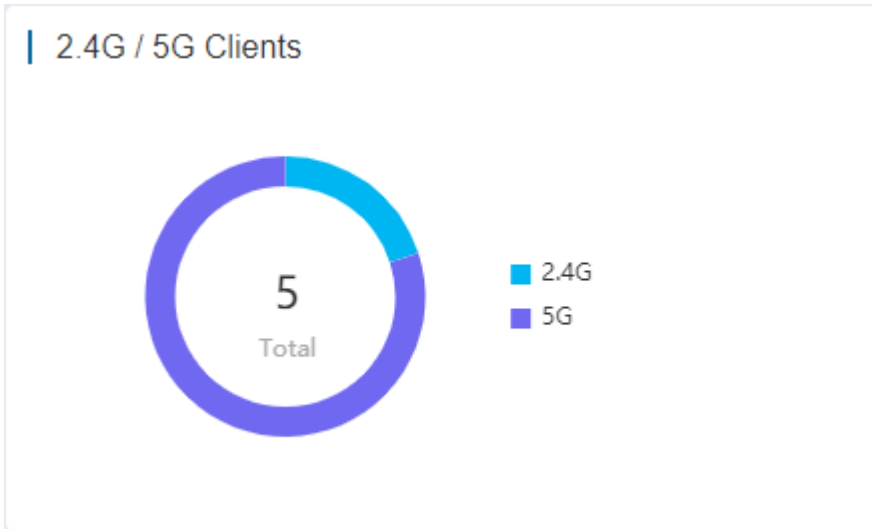
The map displays the device distribution by default. Devices are displayed in network, and the number on icon indicates the device number. Point to the icon, and the device and alarm number are displayed.





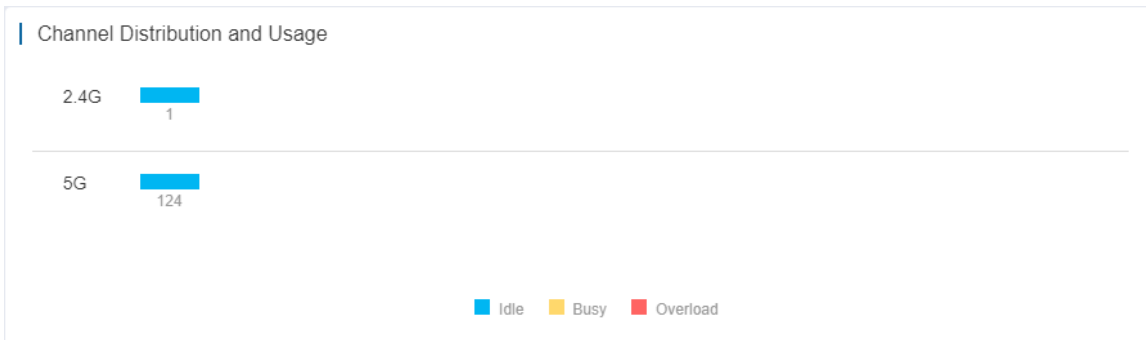
Click  to bind the network. In the **Unbound Network List**, you can drag a device to the map to bind the location; on map, you can drag a network to change its location, or click **Unbind** to unbind the location.

- 2.4G / 5G Clients

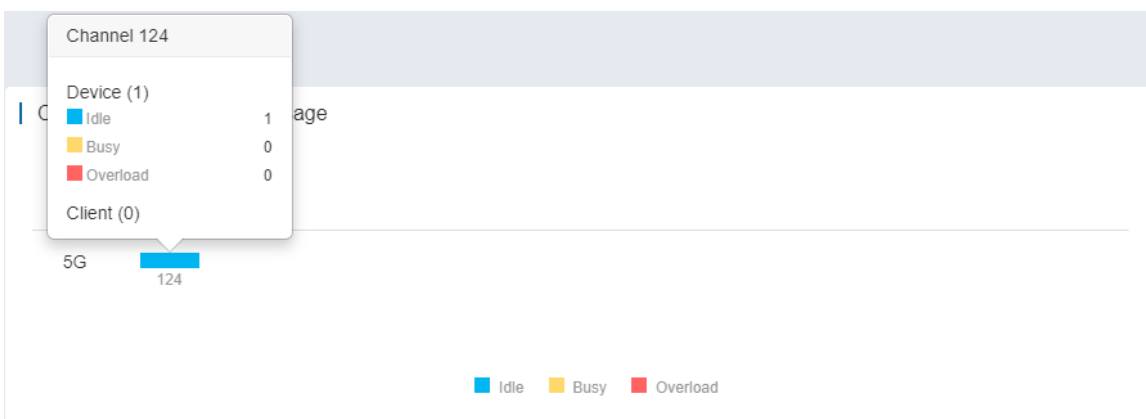


The chart displays the statistics of clients using 2.4G and 5G.

- Channel Distribution and Usage



The chart displays the channel statistics.



For more information, point to a channel. The channel usage is graded as:

**Idle:** 0% to 59%

**Busy:** 60% to 79%

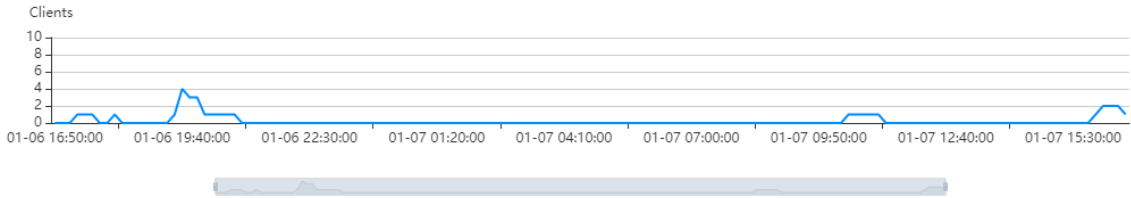
**Overload:** 80% to 100%

- WiFi Client Summary

Network Metrics

Last 24 Hours

WiFi Client Summary



The chart displays the trend of recent clients.

- Top 10 Networks by Traffic

Ranking	Network	Traffic	Clients
1	Nature	188.64M	125

The table displays the top 10 networks ranked by traffic.

- Top 10 WiFi Clients by Traffic

Top 10 WiFi Clients by Traffic



The chart displays the top 10 clients ranked by traffic.

- Top 10 APs by Traffic

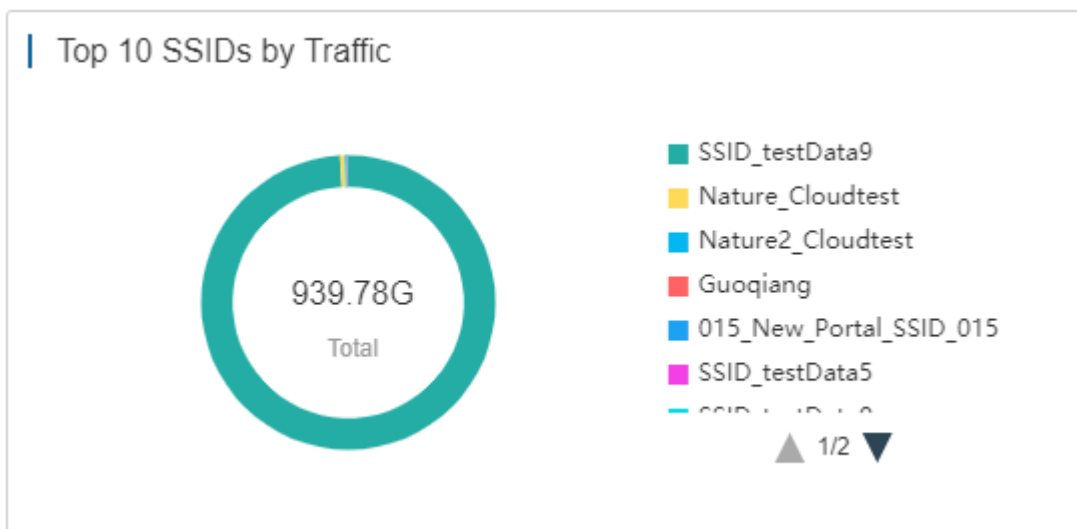


### Top 10 APs by Traffic

Ranking	AP	Traffic	Clients
1	G1KD9HH02861B	161.92M	11
2	G1KQB7F01872A	8.67K	1

The table displays the top 10 APs ranked by traffic.


- Top 10 SSIDs by Traffic



The chart displays the top 10 SSIDs ranked by traffic.

## 5.2 TOPOLOGY

**Topology** displays the network topology and device status, and offers the project report.



EG3250 [Detect New Device](#) [Management Password](#)  
Creation Time:2021-01-21 11:29:14 Uptime:0Days

Project Status: **Not Deliver-**

Online Clients: **0**

Alarms: **0**

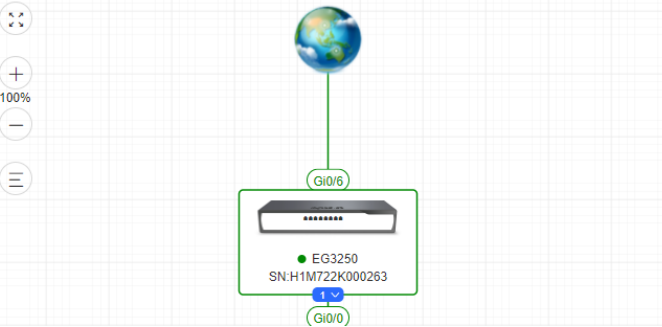
### Topology

Update Time: 2021-01-21 11:29:24 (Complete)

Search

Update Topology Horizontal Vertical

Gateway: 1/1 Switch: 1/1 AP: 1/1 AC: 0/0 WiFi Router: 0/0  
Wireless Bridge: 0/0 [Instruction](#)



EG3250  
SN:H1M722K000263

### Details

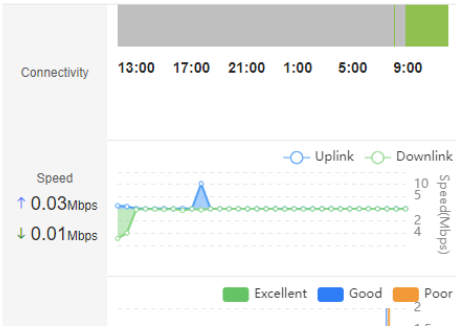
Device

To avoid risks, please start the diagnosis. [Start Diagnosis](#)

Status

Connectivity: 13:00 17:00 21:00 1:00 5:00 9:00

Speed: Uplink Downlink  
↑ 0.03Mbps ↓ 0.01Mbps




Excellent Good Poor

## 5.2.1 Data Monitoring

- **Basic Information**

Display the creation time, uptime, quantity of online clients and alarms.



EG3250 [Detect New Device](#) [Management Password](#)  
Creation Time:2021-01-21 11:29:14 Uptime:0Days

Project Status: **Not Deliver-**

Online Clients: **0**

Alarms: **0**

- **Network Topology**

The topology displays the device connection and status. Click a device, and its detailed information will be displayed on the right.

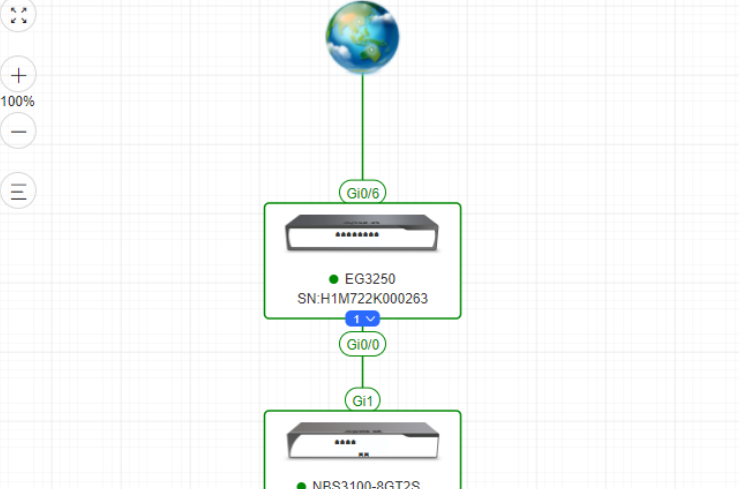
### Topology

Update Time: 2021-01-21 11:29:24 (Complete)

Search

Update Topology Horizontal Vertical

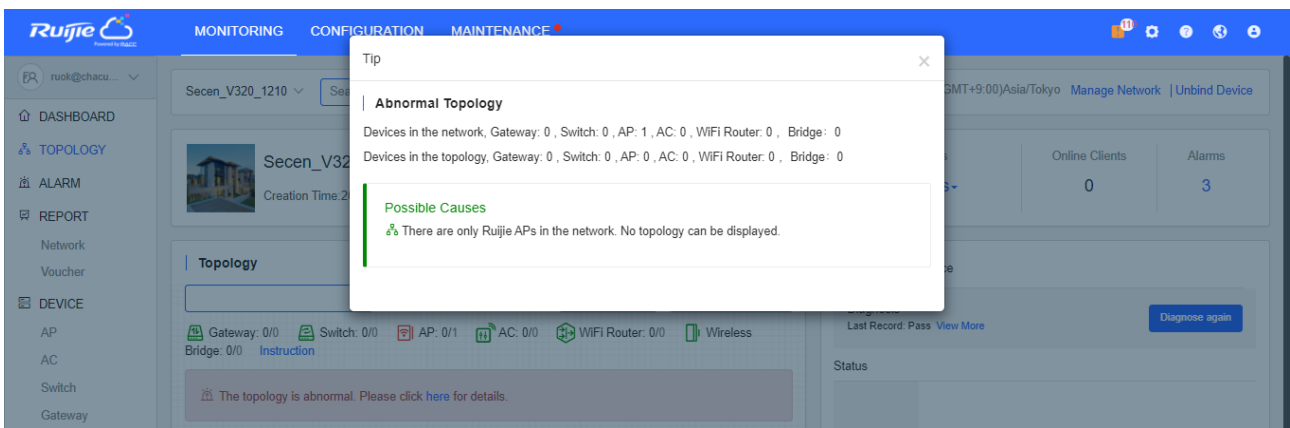
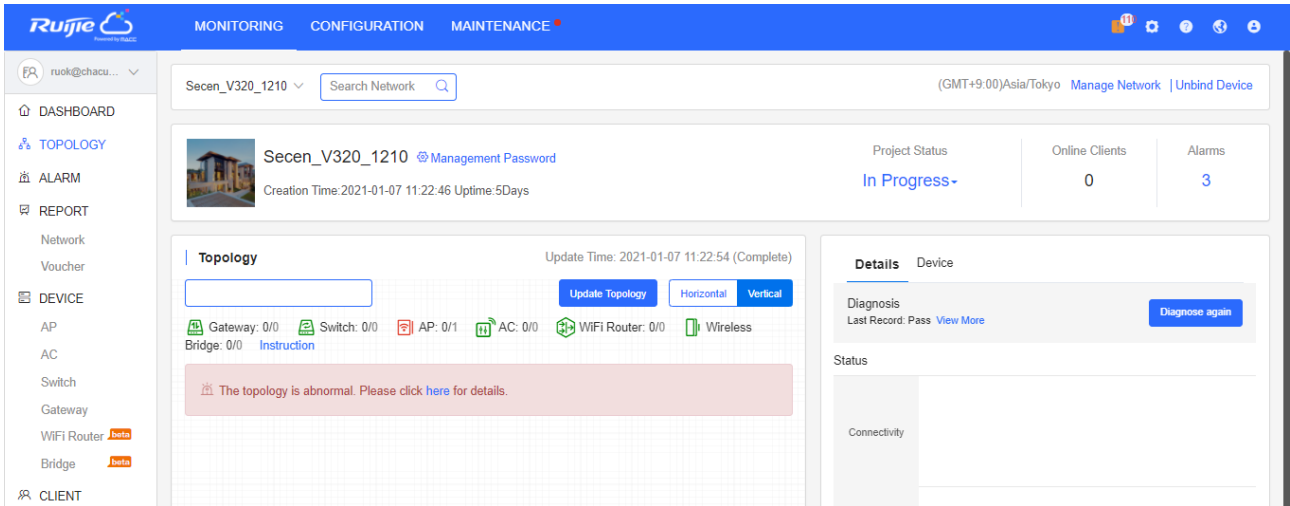
Gateway: 1/1 Switch: 1/1 AP: 1/1 AC: 0/0 WiFi Router: 0/0  
Wireless Bridge: 0/0 [Instruction](#)



EG3250  
SN:H1M722K000263

NBS3100-8GT2S...

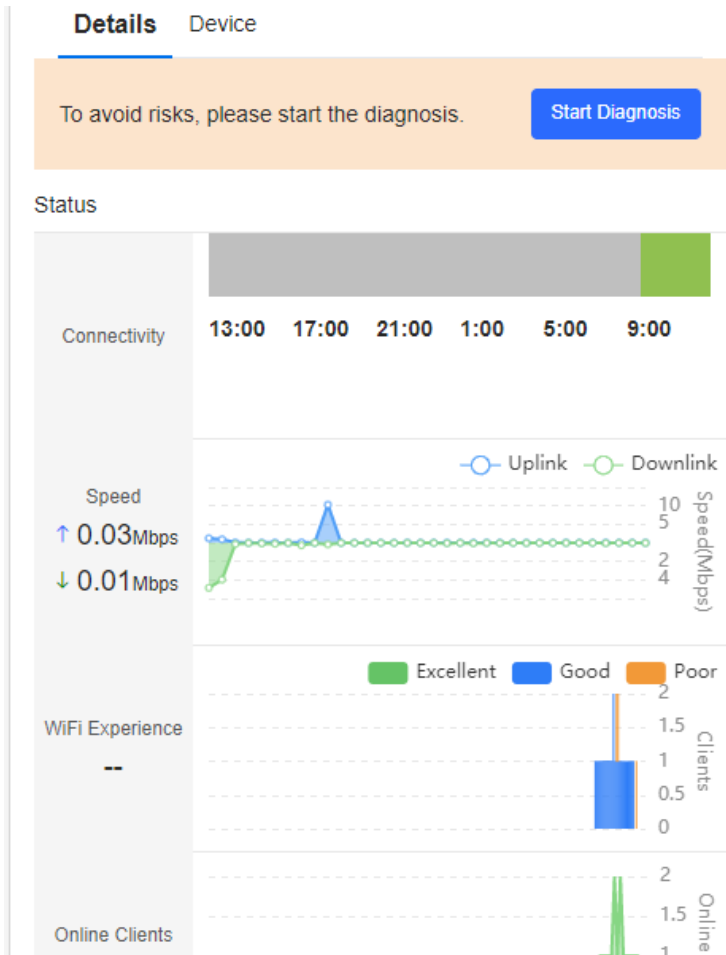
When the topology is abnormal, a note is displayed as shown below



- **Details and Device**

**Details** displays connectivity, network speed, WiFi experience, and number of online/active clients.

**Device** displays the information of different kinds of devices.



**Details** **Device**

Gateway **Switch** Cloud AP Fit AP AC

Router

**Ruijie** eWeb   
G1NWC1T000066   
Model: NBS3100-8GT2SFP-PIP: 192.168.1.3

### 5.2.2 Report

To view the network report, point to **Project Status**, and click **View Report**.

default Management Password   
Creation Time: Uptime:Days

Project Status: **In Progress**

Online Clients: 0   
Alarms: 0

**Topology**   
Update   
Update Topology Horizontal   
View Report   
View Report

Gateway: 0/0   
Switch: 0/0   
AP: 0/0   
AC: 0/0   
WiFi Router: 0/0   
Wireless Bridge: 0/0   
Instruction

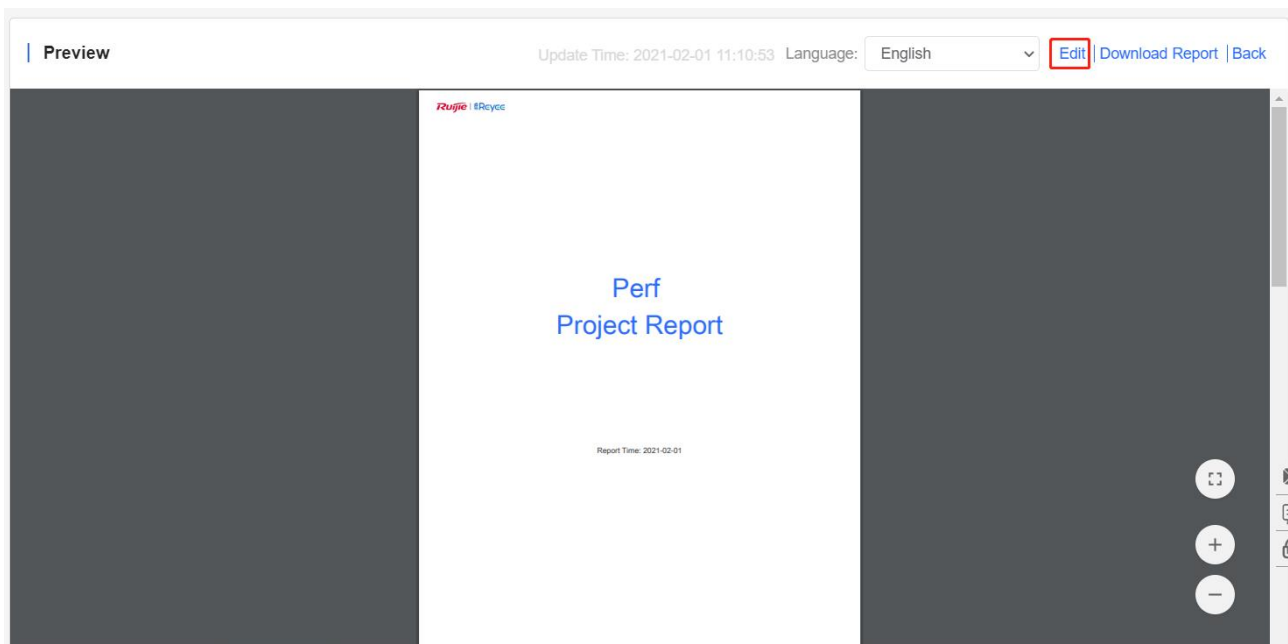
Delivery   
2020-12-09 02:14:01   
View Report   
Add Project   
2019-03-11 12:32:56

start the diagnosis. [Start Diagnosis](#)

The project delivery report can be exported into multi-languages.



To edit the report, click **Edit** on the upper right corner to customize the report.



You can edit:

- Title
- Cover
- Basic information
- Configuration
- Diagnosis data
- Device list
- Topology

default  (GMT+0:00)Africa/Abidjan [Manage Network](#) | [Unbind Device](#)

**Edit** Update Time: 2021-01-21 06:02:17 [Refresh](#) | [Preview](#) | [Download Config File](#) | [Download Report](#) | [Back](#)

**defaultReport**

**1. Cover**



**2. Basic Information**

LOGO: It is recommended to upload the image in the ratio of 4:3.  
Only support png, jpg, jpeg and bmp.  
The image should not exceed 1M.

- 1. Cover
- 2. Basic Information
- 3. Configuration
- 4. Diagnosis
- 5. Device
- 6. Topology

### 5.2.3 New Device

#### 5.2.3.1 Add New Device

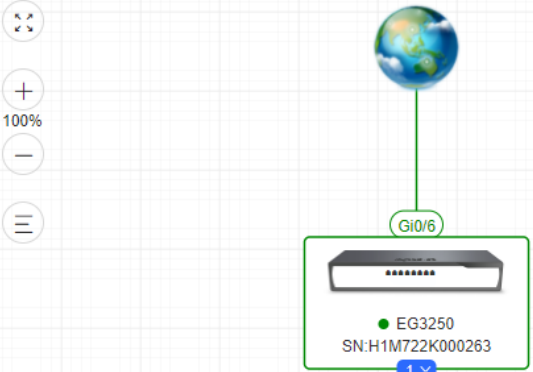
When you add a new device, Cloud will refresh the topology automatically. If Cloud fails to detect the new device, you can click **Detect New Device** to manually update the topology.

EG3250 [Detect New Device](#) [Management Password](#)  
Creation Time:2021-01-21 11:29:14 Uptime:0Days

**Topology** Update Time: 2021-01-21 11:29:24 (Complete)

[Update Topology](#) [Horizontal](#) [Vertical](#)

Gateway: 1/1 Switch: 1/1 AP: 1/1 AC: 0/0 WiFi Router: 0/0  
Wireless Bridge: 0/0 [Instruction](#)



EG3250  
SN:H1M722K000263

The new device can be added to the current network.

✕

**1 new device of other network is detected**

Detection Time: 2020-06-28 13:59:42 Detect again

---

**Secen\_egw\_eap\_245** Add to Network

EG105G-P	SN:MACCEG1689832	MAC: 00d0.f815.0844
----------	------------------	---------------------

### 5.2.3.2 Device Information

Click a device in the topology to check its configuration.

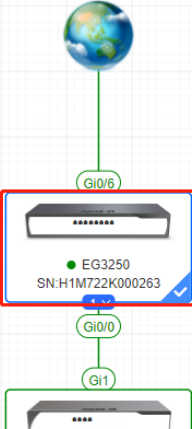
**Topology** Update Time: 2021-01-21 11:29:24 (Complete)

Search

Update Topology Horizontal Vertical


Gateway: 1/1   Switch: 1/1   AP: 1/1   AC: 0/0   WiFi Router: 0/0

Wireless Bridge: 0/0 [Instruction](#)



**Ruijie** ✕

[Instruction](#) Device Information | eWeb | Telnet



SN	Type	Model
H1M722K000263	Gateway	EG3250
MAC	Management IP	
0074.9cb5.1a75	192.168.118.59	

**Port** Configuration

Port	Access Type
Gi0/0	--
Gi0/6	dhcp

### 5.2.4 Diagnosis

The function diagnoses the network connectivity and link status. Click **Start Diagnosis** or **Diagnose again** on the right to start diagnosis.

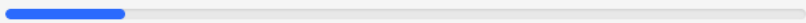
**Details** Device

To avoid risks, please start the diagnosis. Start Diagnosis

Status

Connectivity	<div style="background-color: #ccc; height: 15px; width: 100%; position: relative;"><div style="background-color: #00aaff; height: 15px; width: 10%; position: absolute; right: 0;"></div></div>
	<span>14:00</span> <span>18:00</span> <span>22:00</span> <span>2:00</span> <span>6:00</span> <span>10:00</span>

Diagnosing...15% Minimize



Layer 2 and 3 Connectivity ^

Address pool and VLAN test...checked.

Link Status ^

Port flow monitoring... 1/1 devices checked

Port negotiation rate and duplex test... 1/1 devices checked

Click **View More** to check the previous diagnosis results.

**Details** Device

Diagnosis  
Last Record: Pass View More Diagnose again

Pass Close

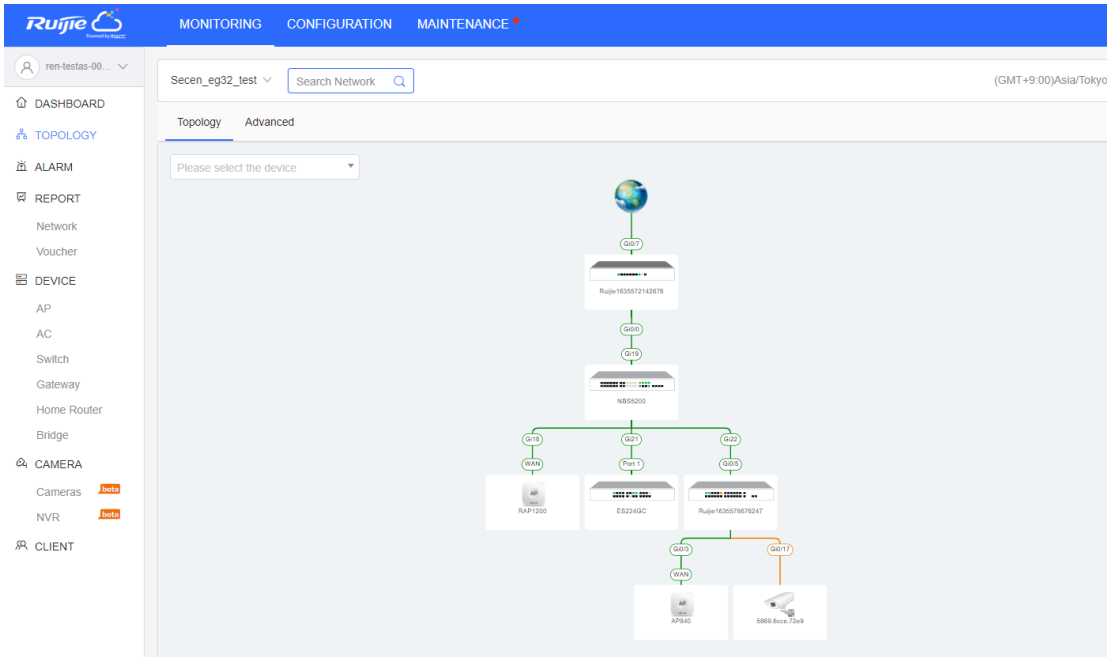
✔ Layer 2 and 3 Connectivity v

✔ Link Status v

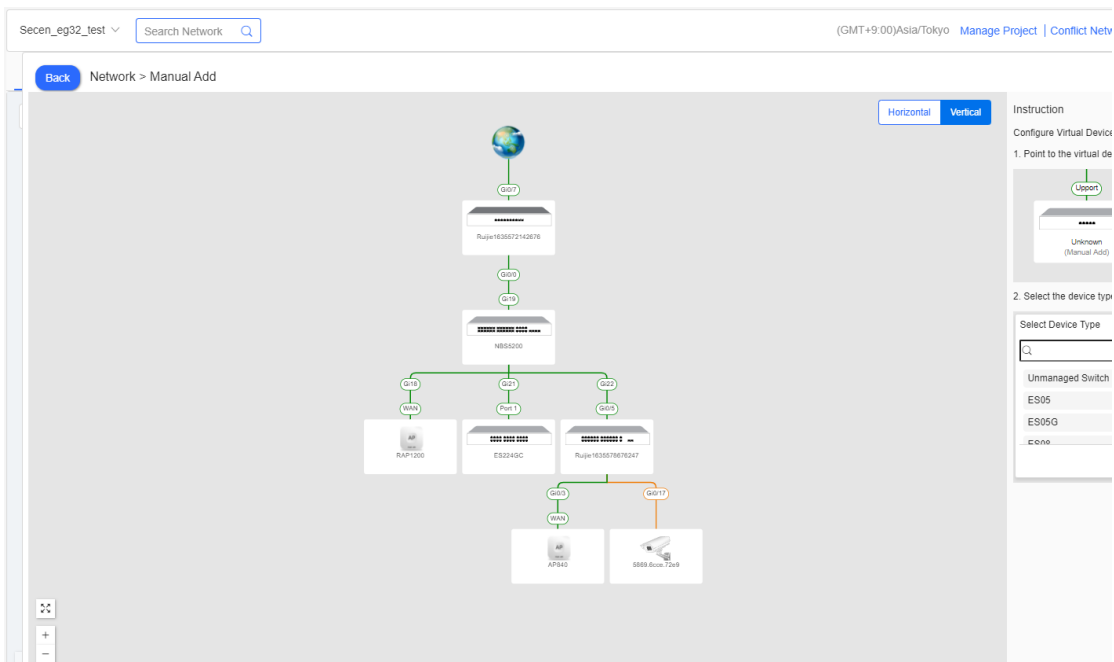
### 5.2.5 Virtual Device Complete on Topology

Select **MONITORING > TOPOLOGY**, and select a project to check its topology. When some device models can not be recognized, they will not be displayed on the topology. In this case, you can add the device manually.

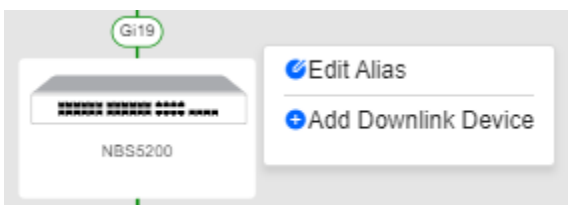




Click **More > Manual Add** on the upper right corner of topology.



Select a device in the topology to add a downlink device.



## 5.3 ALARM

### 5.3.1 Alarm List

By default, **Alarm List** displays the uncleared alarms. You can select alarm type, level and cleared status to filter alarms.

**Alarm List** supports the search based on AP serial number, alarm type, alarm source (network/device), and alarm generation time.



You can configure thresholds in **Alarm Settings**.

The following describes the conditions for generating alarms.

Type	Condition	Description
Device goes offline	An AP goes offline.	The AP is disconnected from the Cloud Service, or the AP is powered off.
Device goes online and offline continually	The online/offline change times of an AP exceeds the default threshold within two hours.	The connection between the AP and the system is unstable or the AP has a firmware or hardware fault.
All devices are offline	All APs in a network go offline.	N/A
High channel usage on AP	The RF channel utilization exceeds 80%.	RF channel utilization is high and interference is strong. It is recommended to change the channel.
System usage(CPU/memory usage) above threshold	The CPU or memory usage of AP/switch/gateway exceeds the threshold.	For AP, the default threshold for CUP usage is 85% and for memory usage is 85%. For switch, the default threshold for CUP usage is 50% and for memory usage is 65%. For gateway, the default threshold for CUP usage is 50% and for memory usage is 65%. Custom values are not supported.
Switch RLDP	A loop occurs on the switch.	N/A
Abnormal network access on gateway	The gateway port fails to ping the specified domain or IP for several times.	When the Ping test failed for the specified times, the alarm is sent. The times and domain/IP address can be configured manually.
High packet loss rate on gateway	The packet loss rate of gateway exceeds the threshold.	When the packet loss rate exceeds the specified percentage of threshold for several times in 5 minutes, the alarm is sent. The times and threshold can be configured manually.
Uplink rate above threshold on gateway	The uplink rate exceeds the specified percentage of threshold for several times.	When the uplink rate exceeds the specified percentage of threshold for several times, the alarm is sent. The threshold, times and percentage can be configured manually.
Downlink rate above threshold on gateway	The downlink rate exceeds the specified percentage of threshold for several times.	When the downlink rate exceeds the specified percentage of threshold for several times, the alarm is sent. The threshold, times and percentage can be configured manually.

SIM card traffic exceeds limit	SIM card traffic exceeds a default threshold.	Only MTFi devices support this alarm.
GPS signal is not found	GPS signal is not found.	Only MTFi devices support this alarm.
CPU usage is high	CPU usage exceeds a default threshold.	Only MTFi devices support this alarm.
Memory usage is high	Memory usage exceeds a default threshold.	Only MTFi devices support this alarm.
Disk space usage is high	Disk space usage exceeds a default threshold.	Only MTFi devices support this alarm.
Flash usage is high	Flash usage exceeds a default threshold.	Only MTFi devices support this alarm.
CPU temperature is high	CPU temperature exceeds a default threshold.	Only MTFi devices support this alarm.

### 5.3.2 Ignore Alarm

Select the alarm you want to ignore in the **Alarm List**, and click **Ignore Alarm**.

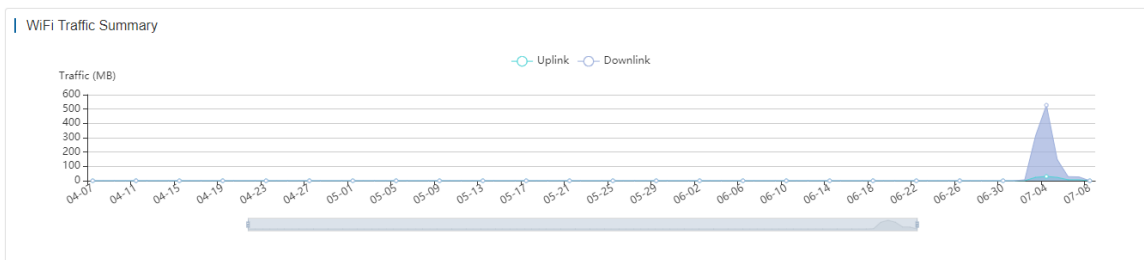
## 5.4 REPORT

### 5.4.1 Network

**Network** is divided into 3 parts: **Summary**, **Device** and **Client**. All charts support searching data in the last 94 days with the same query conditions, except the statistical charts with Real-time that display real-time data and **Client > Experience** chart that only displays data in the last 7 days. All charts automatically refresh every minute. Reports can be exported into CSV or PDF files, or sent by Email.

#### 5.4.1.1 Summary

- Summary > WiFi Traffic Summary

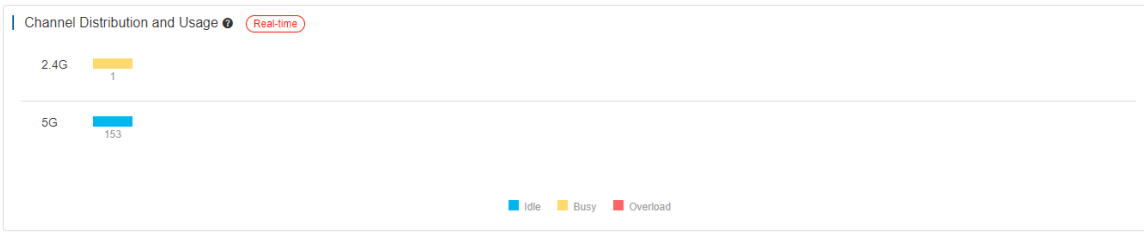


The uplink/downlink traffic summaries of the selected network during the specific period.

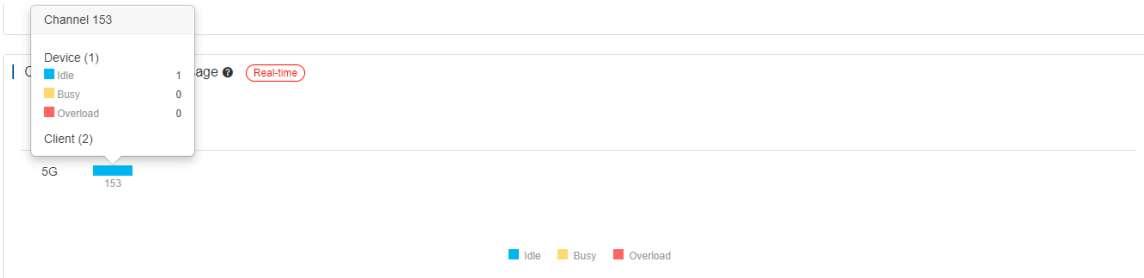
**Uplink:** Traffic directed from internal network to external network.

**Downlink:** Traffic directed from external network to internal network.

- Summary > Channel Distribution and Usage



The channel distribution and usage of the selected network.



For more details, point to a channel. The channel usage is graded as:

**Idle:** 0% to 59%

**Busy:** 60% to 79%

**Overload:** 80% to 100%

- Summary > SSIDs by Client

Ranking	SSID	Clients	Traffic
1	Nature_Cloudtest	10	770.35M
2	A_oneclick	9	21.48M
3	nature1	7	18.69K
4	A_voucher	7	2.55M
5	wang1	7	49.51K
6	A_oneclick123	6	23.38K
7	nature2	4	20.68K

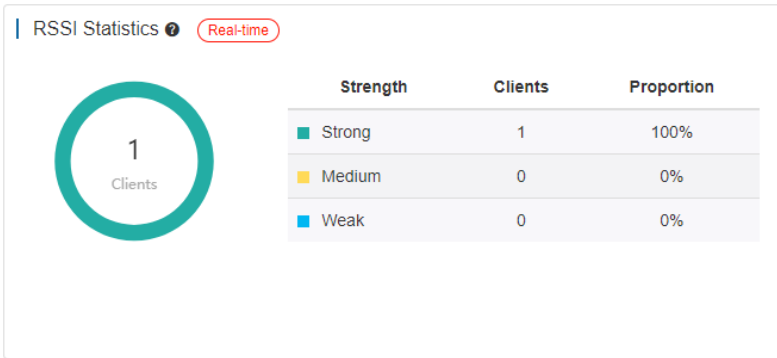
The SSIDs ranked by client number of the selected network during the specific period.

- Summary > SSIDs by Traffic

Ranking	SSID	Traffic	Clients
1	Nature_Cloudtest	770.35M	10
2	Venus_Cloudtest	181.04M	1
3	A_oneclick	21.48M	9
4	A_voucher	2.55M	7
5	wang1	49.51K	7
6	A_oneclick123	23.38K	6
7	nature2	20.68K	4

The SSIDs ranked by traffic of the selected network during the specific period.

- Summary > RSSI Statistics



The wireless signal strength of the selected network during the specific period. The signal intensity is defined below:

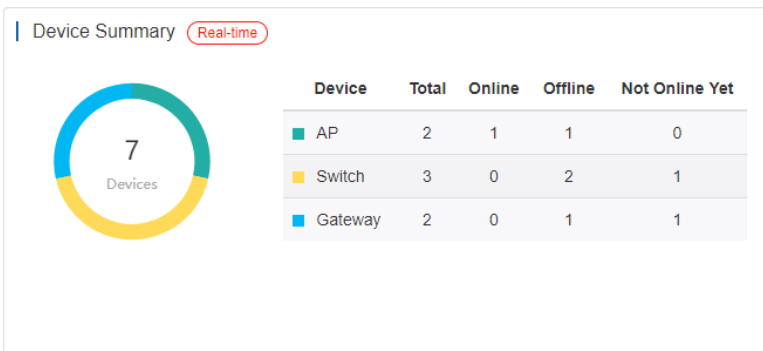
**Weak:** RSSI ≤ -80dB

**Medium:** -80dB < RSSI ≤ -70dB.

**Strong:** RSSI > -70dB

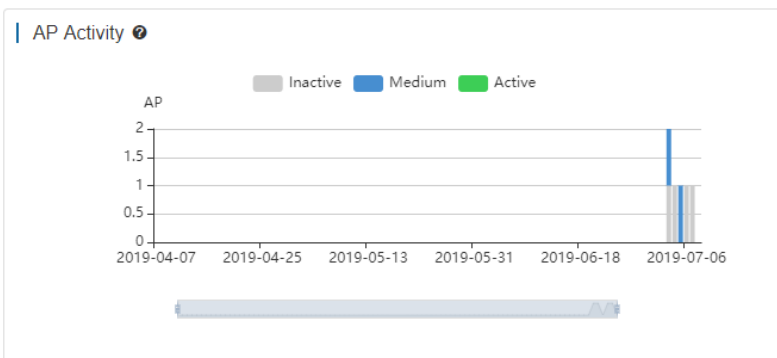
### 5.4.1.2 Device

- Device > Device Summary



The online status of devices of the selected network during the specific period.

- Device > AP Activity



The AP activity of the selected network during the specific period. The chart does not support searching data in the last 24 hours.

AP activity is evaluated based on the number of active clients accessing the AP in a day. APs not associated with any clients are not calculated.

**Inactive:** <5 active clients

**Medium:** 5-9 active clients

**Active:** ≥10 active clients.

- Device > Top 10 APs by Client

Top 10 APs by Client

Ranking	AP	Alias	Clients	Traffic
1	G1KD9HH02861B	520w2	37	794.53M
2	G1KQB7F01872A	Ruijie01	1	181.04M

The top 10 APs ranked by client number of the selected network during the specific period.

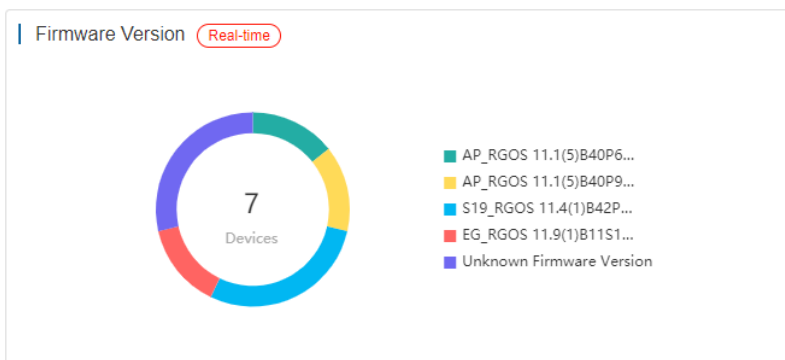
- Device > Top 10 APs by Traffic

Top 10 APs by Traffic

Ranking	AP	Alias	Traffic	Clients
1	G1KD9HH02861B	520w2	794.53M	37
2	G1KQB7F01872A	Ruijie01	181.04M	1

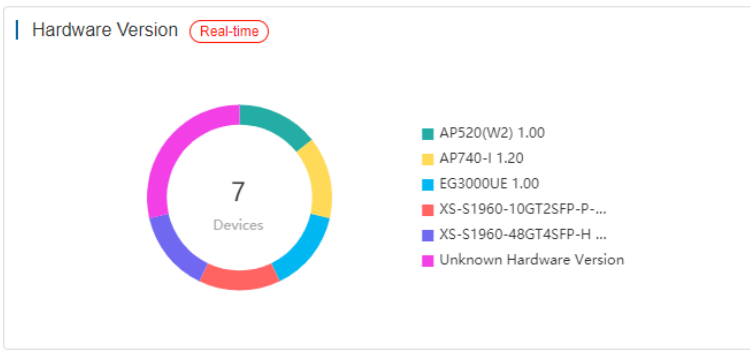
The top 10 APs ranked by traffic of the selected network during the specific period.

- Device > Firmware Version



The proportion of firmware versions of the selected network during the specific period.

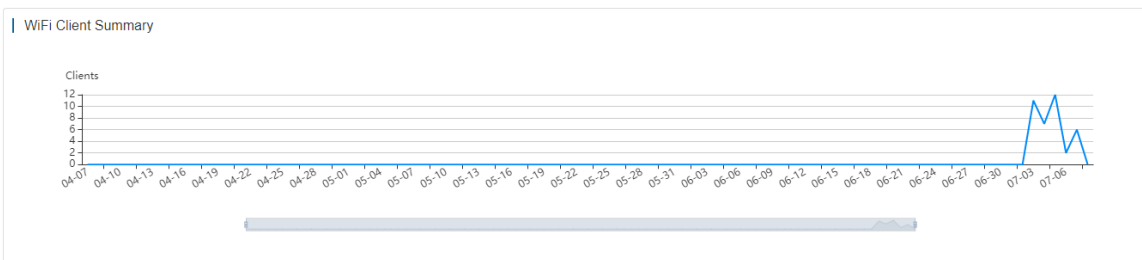
- Device > Hardware Version



The proportion of hardware versions of the selected network during the specific period.

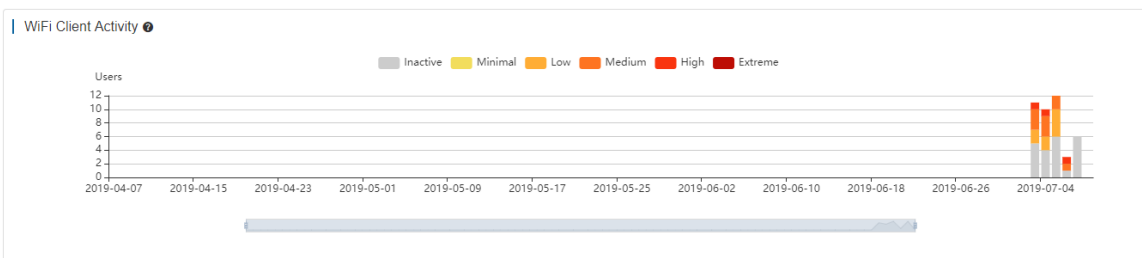
### 5.4.1.3 Client

- Client > WiFi Client Summary



The client summary of the selected network during the specific period.

- Client > WiFi Client Activity



The client activity of the selected network during the specific period. The chart does not support searching data in the last 24 hours.

Client activity is evaluated based on online duration and traffic volume (from highest to lowest):

**Inactive:** ≤100KB traffic

**Minimal:** Any time and 100KB traffic

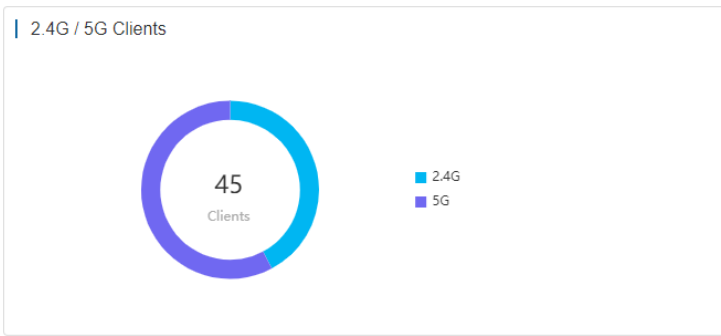
**Low:** 1h/d and 500K traffic

**Medium:** 2h/d time and 2M traffic

**High:** 4h/d time and 5MB traffic

**Extreme:** 8h/d time and 10MB traffic

- Client > 2.4G / 5G Clients



The proportion of STAs using 2.4G/5G of the selected network during the specific period.

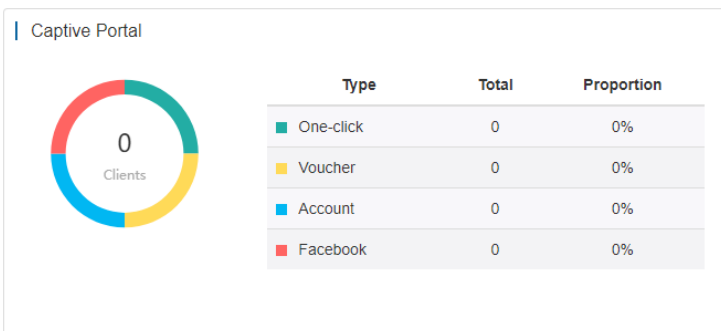
● Client > Top 10 WiFi Clients by Traffic

Top 10 WiFi Clients by Traffic

Ranking	MAC	Alias	Traffic	Uptime
1	64b0.a695.1ee4	Venus	472.79M	5h 32m 33s
2	a057.e32a.9203	-	395.83M	11h 59m 12s
3	3045.9609.0557	Nature	88.52M	4h 57m 0s
4	8c0d.7677.f87d	-	11.96M	28h 4m 53s
5	f018.9884.c16d	-	3.83M	1h 16m 4s
6	8c85.9090.0e7b	-	2.03M	0h 40m 46s
7	18f0.e4eb.6cbb	Venus	240.47K	0h 49m 52s

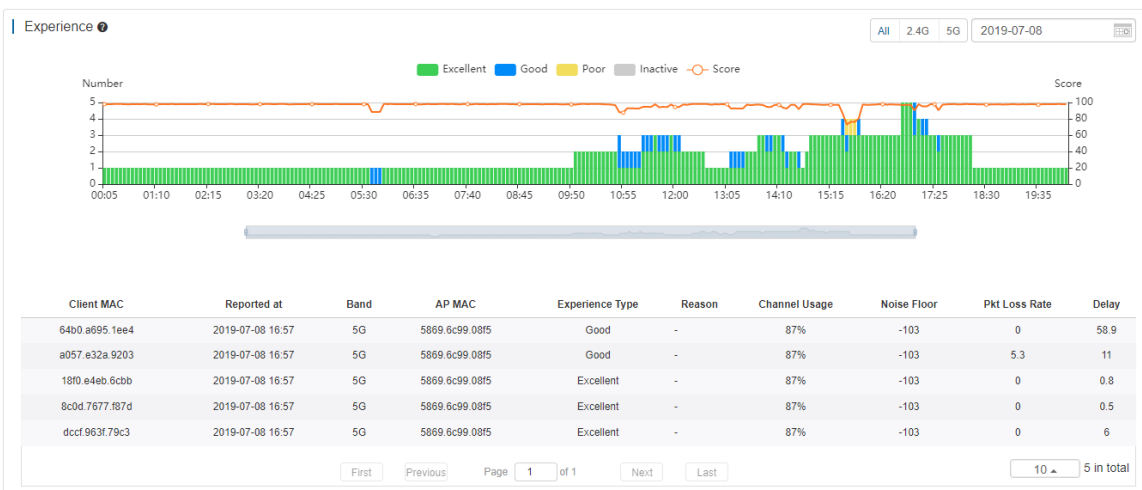
The top 10 clients ranked by traffic of the selected network during the specific period.

● Client > Captive Portal



The proportion of authentication types of the selected network during the specific period.

● Client > Experience





The experience status during the specified time and collects data every 5 minutes. You can switch between 2.4GHz and 5 GHz.

**Client information:** Click an indicator bar to display more information.

**Excellent:** HDV and internet game are available.

**Good:** communication application, Web page and VoIP are available.

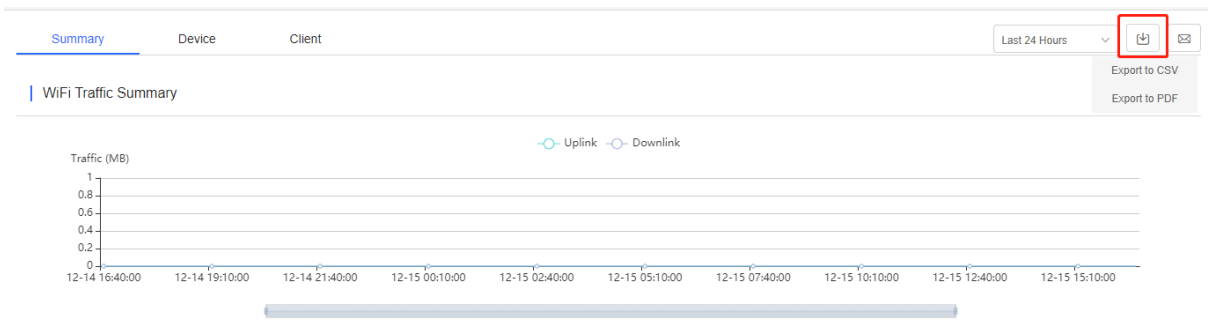
**Poor:** go offline frequently or hard to go online.


**Inactive:** check whether a client is inactive according to the traffic and power usage.

**Score:** Take the parameters of client delay, client packet loss, signal strength and so on as the reference, and then use the SVM algorithm to get the score.


### 5.4.1.4 Export

- Export to CSV/PDF



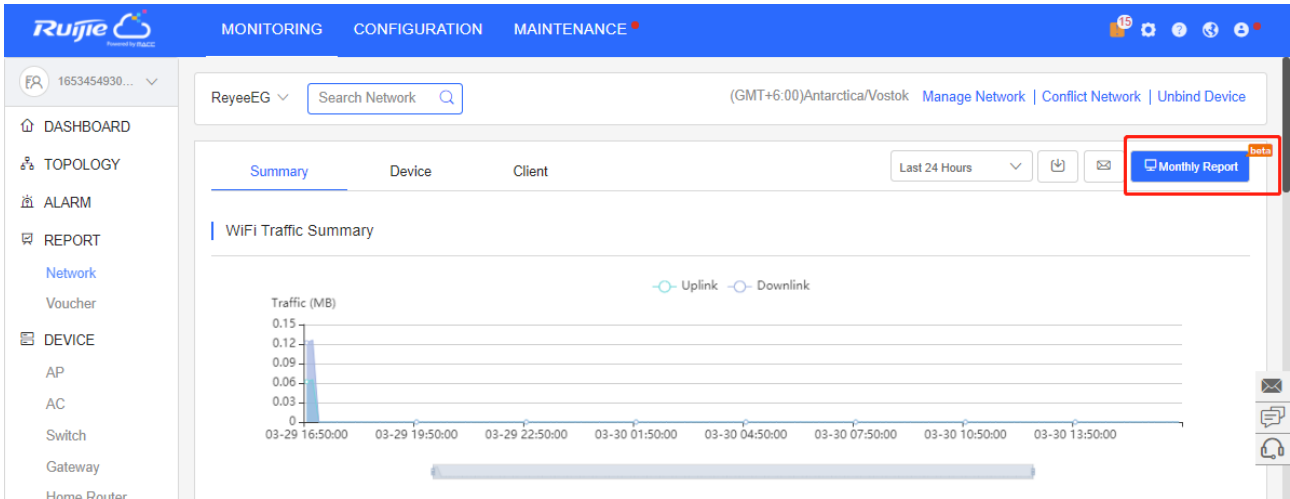
Point to  , and select **Export to CSV/PDF**.

- Mail

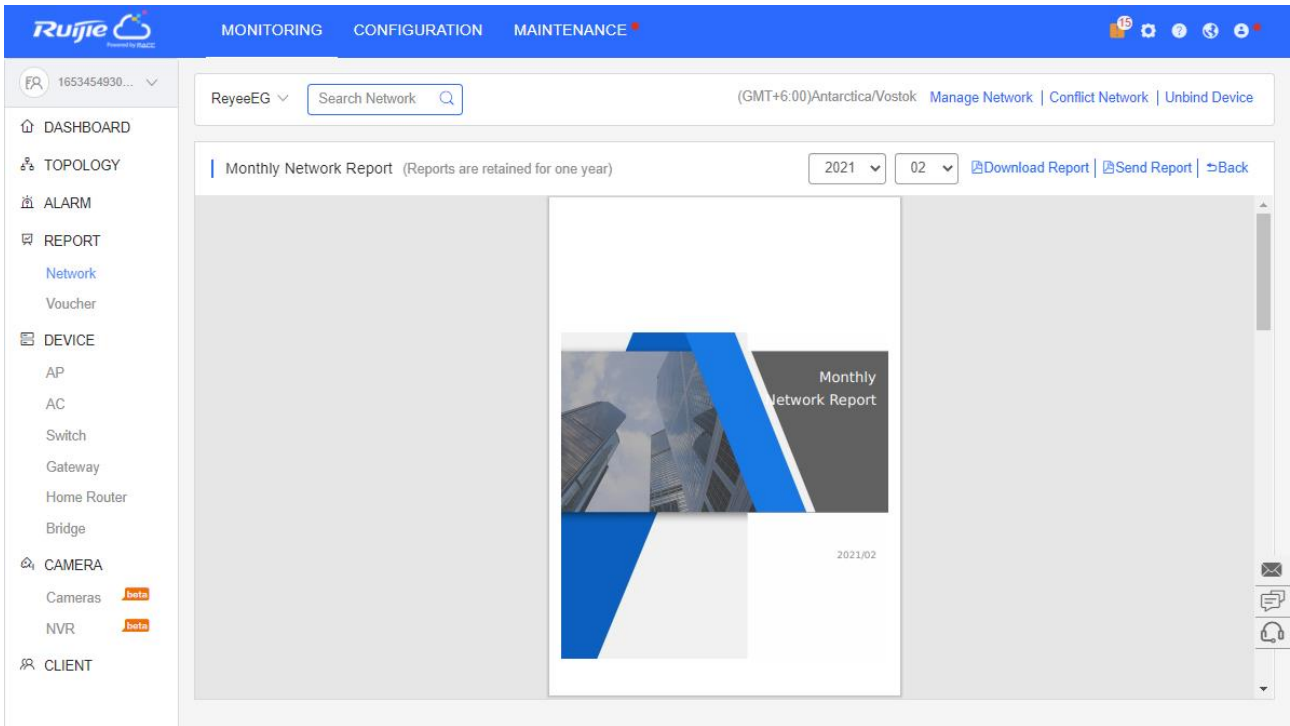
Click  , select the file type, enter Email addresses, and click OK.

### 5.4.1.5 Monthly Report

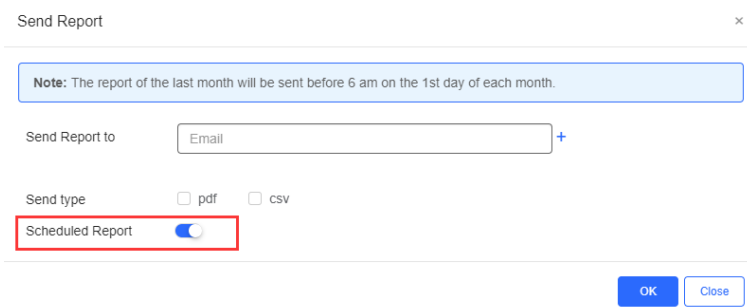
The monthly report displays the network monitoring data, including user and flow summaries.



You can send the report immediately to receivers, or enable **Scheduled Report** so that Cloud will send the report on the first day of each month automatically (beta function for partial users).



You can send the report in the format of PDF or CSV to the specified Emails. The report can be sent at fixed period.



### 5.4.2 Voucher

The **Voucher Report** records the sales of voucher during the specified period.

Voucher Report Last 1 Day Last 7 Days Last 30 Days Custom

No.	Package Name	Description	Price	Qty	Activated Accounts	Total Price
Total				0	0	0.00

Click to export the **Voucher Report** in PDF format.

**Qty:** Number of vouchers generated by each package in the specified period.

**Activated Accounts:** Number of vouchers activated by each package in the specified period.

**Total Price:** Total price of vouchers activated by each package in the specified period.

**Total:** Number of vouchers generated by all packages, number of vouchers activated by all packages and total amount of vouchers activated by all packages.

## 5.5 DEVICE

Select **MONITORING > DEVICE** to display the **Devices** page, and select a network on the top to filter devices.

### 5.5.1 AP

#### 5.5.1.1 AP List

AP List Auto Refresh:

Add Web CLI More ▾ 0 Selected SN, Alias, Description

<input type="checkbox"/>	Status	SN	Config Status	MAC	Alias	MGMT IP	Egress IP	Clients	Network	Firmware Version	Offline Time	Model	De
<input type="checkbox"/>	Online	<a href="#">G1PD38G025082</a>	Synchronized	300d.9e23.4b93	Ruijie	192.168.110.249	218.85.80.138	-	egtest	AP_3.0(1)B11P30_Release(07211302)	-	RAP1200(F)	
<input type="checkbox"/>	Online	<a href="#">G1PD05AM03222A</a>	Synchronized	300d.9e56.bfe9	Ruijie	192.168.110.10	218.85.80.138	-	Revee03	AP_3.0(1)B11P30_Release(07222401)	-	RAP2200(E)	
<input type="checkbox"/>	Online	<a href="#">MACCR12676715</a>	Synchronized	00d0.f8bd.ac8f	Ruijie1608013570483	192.168.118.168	218.85.80.138	-	1608013519762	RGOS 10.4(2B17)-SP2	-	AP820-L(V2)	Ruijie_Auto

First Previous Page  of 1 Next Last
 3 in total

The **AP List** displays basic device information, including the online/offline status, SN, config status, MAC, alias, management IP & public IP, clients, network, firmware version, offline time, model and description.

The **AP List** automatically refreshes every minute. Click Auto Refresh:  to enable/disable the auto refresh function.

Above the list is the **Add** function. Click More ▾ to display the **Move to**, **Delete**, and **Reboot** functions. For more information, refer to **Basic AP Operations**.

The **Search** function supports fuzzy queries based on the serial number, alias and description, and also supports queries based on online/offline status.

Click the record in the **Config Status** column to open the **Config Status** page. On this page, you can deliver one or all configurations.

Config Status(G1PD58H089294)



To synchronize all configurations to the AP, please click **Manually Deliver**. If a configuration fails to be synchronized, please click in the Action column to deliver it again.

Manually Deliver Refresh

Config	Status	Action
+ Wireless Blacklist/Whitelist Settings Based on SSID;	Synchronized	
+ Diagnosis Logging Settings;	Synchronized	
+ Indicator config;	Synchronized	
+ Network management password configuration;	Synchronized	
+ Time Zone Settings;	Synchronized	
+ Device Name Settings;	Synchronized	
+ RF Power Settings;	Synchronized	
+ Wireless Signal Settings;	Synchronized	
+ CWMP Interval Settings;	Synchronized	
+ SSID Settings;	Synchronized	
+ Log Settings;	Synchronized	
+ Custom CLI Settings;	Synchronized	

The number of devices which have available firmware for upgrade is displayed on the upper-left corner of the **AP List** page. Click **New Firmware** to display the **New Firmware List**. Then click **Go To Upgrade** to enter the **MAINTENANCE > UPGRADE > Upgrade** page.

New Firmware List



Model	Current Version	Hardware Version	Devices	Recommended Version	Action
AP520(W2)	AP_RGOS 11.1(5)B9, Release(03221722)	1.00	1	AP_RGOS 11.1(5)B40P9	<a href="#">Go To Upgrade</a>
RAP2200(E)	AP_3.0(1)B11P30,Release(07222401)	1.00	1	AP_3.0(1)B11P26,Release(07172301)	<a href="#">Go To Upgrade</a>
RAP1200(F)	AP_3.0(1)B11P32,Release(07240215)	1.00	1	AP_3.0(1)B11P26,Release(07172302)	<a href="#">Go To Upgrade</a>

First Previous Page 1 of 1 Next Last
10 3 in total

For more information, refer to **Device Details**.

### 5.5.1.2 Device Details

Click the **SN** in the **AP List** to open the details page for a single device. The page displays detailed device information, including basic information, performance data, traffic data, client data, online/offline status, RF information, and device logs.

The AP information is described as:

- AP Info

**AP Info**

---

Alias :	SN : G1KQAJ7016315	MAC : 3c80.aa00.1978
MGMT IP : 192.168.110.229	Model : AP520(W2)	Config Status : Synchronized
Hardware Version : 1.00	Firmware Version : AP_RGOS 11.1(5)B9, Release(03221722)	
Description :		
SSID : Binnyuuu, Kkgff, Hrllo		

The basic information includes serial number, MAC address, management IP address, device model, configuration status, firmware version, hardware version, alias, and description.

● Status

| Status

<p>✔ Online</p> <p>● Online Clients: 0</p> <p>● Clients with Weak Signal : 0</p>	<p>Memory Usage</p>	<p>CPU Usage</p>	<p>Alarms : 0</p>
--	---------------------	------------------	-------------------

The performance data includes the AP connection status, number of online clients, CPU usage, and memory usage.

● Connectivity

| Connectivity

Last 24 Hours Last 7 Days

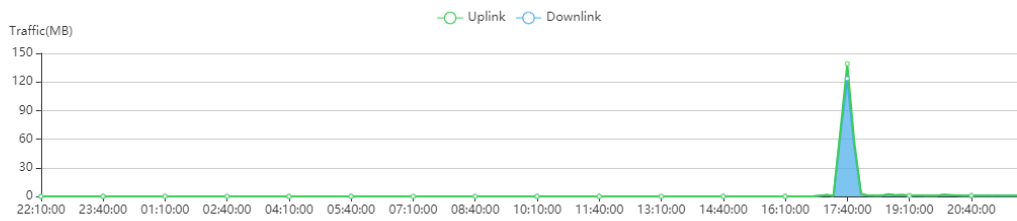


AP connectivity refers to the connectivity (online status) between AP and Cloud Service within a period (1 day or 7 days).

● Traffic Summary

| Traffic Summary

Last 24 Hours Last 7 Days



You can view the AP traffic statistics in the last 24 hours or the last 1 week.

● Radio List

| Radio List

Refresh Grid

RF Type	Channel	Power	Channel Width (MHz)	Channel Usage
5G	149	100%	40	32%
2.4G	1	100%	20	90%

The Radio List page displays the RF information, including the RF type, current channel, power (percentage), frequency bandwidth, and channel usage.

● Client List

| Client List

Refresh Copy Grid

IP	MAC	SSID	RSSI	AP Alias	Band	Traffic (MB)	Manufacturer	Online Time	Offline Time
192.168.1.3	dcct.963f.79c3	Test_shared	-64		5G	0.382	Samsung	2021-01-15 10:57:57	-

First Previous Page 1 of 1 Next Last

10 1 in total

The client list displays information about clients currently associated with the APs, including the IP address, MAC address, SSID, RSSI, traffic, online/offline status, and terminal type.

● Adjacent RF Signal

Adjacent RF Signal

Scan Adjacent RF

Start Time: 2021-01-15 15:51:49 End Time: 2021-01-15 16:08:12 Status: Complete

BSSID	Radio	Adjacent SSID	Adjacent Channel	RSSI	Adjacent SN	Adjacent MAC	Uploaded at
0674.9c61.bfdf	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	1	23	Unidentified	Unidentified	2021-01-15 16:08:13
0614.4b7c.a186	Radio2(5G)	ruijie-802.1x	157	19	Unidentified	Unidentified	2021-01-15 16:08:13
dcfe.18b3.4c09	Radio1(2.4G)	ylx	1	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a14.4b7c.a186	Radio2(5G)	ruijie-guest	157	18	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f0	Radio2(5G)		56	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a74.9c61.8767	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	18	Unidentified	Unidentified	2021-01-15 16:08:13
0e14.4b7c.a186	Radio2(5G)	rj-network	157	17	Unidentified	Unidentified	2021-01-15 16:08:13
0674.9c61.c713	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f3	Radio2(5G)	WLAN-61	56	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f4	Radio2(5G)	WLAN-31	56	17	Unidentified	Unidentified	2021-01-15 16:08:13

First Previous Page 5 of 10 Next Last

10 99 in total

The **Adjacent RF Signal** page displays the RF signals (scanned BSSID) emitted by adjacent APs. The **Radio**, **Adjacent Channel**, and **RSSI** in the list are scanned information. If a signal comes from the AP managed by the cloud controller, the adjacent AP SN and adjacent MAC address will be identified and displayed; otherwise, these two items are in an unidentified state.

● Scan Adjacent RF

The system provides the function of triggering APs to scan adjacent RF signals. With this function, identified and unidentified RF signals can be observed. There are two known scenarios:

1. Testing the number and strength of RF signals emitted by neighboring APs that are not managed by the system to predict a degree of RF interference.
2. Identifying RF signals emitted by neighboring APs managed by the system to diagnose the RF functions and powered-on status of neighboring APs.

On the device details page, an AP may be triggered to perform scanning and display the scanning result. The following steps describe the method for scanning the adjacent RF signals:

Click **Scan Adjacent RF** to trigger an AP to scan adjacent RF signals.

Adjacent RF Signal

Scan Adjacent RF

Start Time: 2021-01-15 15:51:49 End Time: 2021-01-15 16:08:12 Status: Complete

BSSID	Radio	Adjacent SSID	Adjacent Channel	RSSI	Adjacent SN	Adjacent MAC	Uploaded at
0674.9c61.bfdf	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	1	23	Unidentified	Unidentified	2021-01-15 16:08:13
0614.4b7c.a186	Radio2(5G)	ruijie-802.1x	157	19	Unidentified	Unidentified	2021-01-15 16:08:13
dcfe.18b3.4c09	Radio1(2.4G)	ylx	1	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a14.4b7c.a186	Radio2(5G)	ruijie-guest	157	18	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f0	Radio2(5G)		56	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a74.9c61.8767	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	18	Unidentified	Unidentified	2021-01-15 16:08:13
0e14.4b7c.a186	Radio2(5G)	rj-network	157	17	Unidentified	Unidentified	2021-01-15 16:08:13
0674.9c61.c713	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f3	Radio2(5G)	WLAN-61	56	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f4	Radio2(5G)	WLAN-31	56	17	Unidentified	Unidentified	2021-01-15 16:08:13

First Previous Page 5 of 10 Next Last

10 99 in total

Message

Are you sure you want to scan the neighboring device?

OK Cancel

After the AP is triggered, the trigger time, expected completion time, and status are displayed in the status bar. Then wait for the AP to finish scanning and send the results to the cloud controller.

Adjacent RF Signal

Scan Adjacent RF

Start Time: 2021-01-15 16:30:49 Expected Completion Time: 2021-01-15 16:50:49 Status: Initialization

BSSID	Radio	Adjacent SSID	Adjacent Channel	RSSI	Adjacent SN	Adjacent MAC	Uploaded at
0674.9c61.bfdf	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	1	23	Unidentified	Unidentified	2021-01-15 16:08:13
0614.4b7c.a186	Radio2(5G)	ruijie-802.1x	157	19	Unidentified	Unidentified	2021-01-15 16:08:13
dcfe.18b3.4c09	Radio1(2.4G)	ytx	1	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a14.4b7c.a186	Radio2(5G)	ruijie-guest	157	18	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f0	Radio2(5G)		56	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a74.9c61.8767	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	18	Unidentified	Unidentified	2021-01-15 16:08:13
0e14.4b7c.a186	Radio2(5G)	rj-network	157	17	Unidentified	Unidentified	2021-01-15 16:08:13
0674.9c61.c713	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f3	Radio2(5G)	WLAN-61	56	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f4	Radio2(5G)	WLAN-31	56	17	Unidentified	Unidentified	2021-01-15 16:08:13

First Previous Page 5 of 10 Next Last 10 99 in total

A list of RF signals scanned by the AP is displayed after the scanning. The list supports a filtering function based on the RF type (2.4 GHz/5 GHz).

Adjacent RF Signal

Scan Adjacent RF

Start Time: 2021-01-15 16:30:49 Expected Completion Time: 2021-01-15 16:50:49 Status: Initialization

BSSID	Radio	Adjacent SSID	Adjacent Channel	RSSI	Adjacent SN	Adjacent MAC	Uploaded at
0674.9c61.bfdf	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	1	23	Unidentified	Unidentified	2021-01-15 16:08:13
0614.4b7c.a186	Radio2(5G)	ruijie-802.1x	157	19	Unidentified	Unidentified	2021-01-15 16:08:13
dcfe.18b3.4c09	Radio1(2.4G)	ytx	1	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a14.4b7c.a186	Radio2(5G)	ruijie-guest	157	18	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f0	Radio2(5G)		56	18	Unidentified	Unidentified	2021-01-15 16:08:13
0a74.9c61.8767	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	18	Unidentified	Unidentified	2021-01-15 16:08:13
0e14.4b7c.a186	Radio2(5G)	rj-network	157	17	Unidentified	Unidentified	2021-01-15 16:08:13
0674.9c61.c713	Radio1(2.4G)	ZHONGYIPENGAO-HOTEL	6	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f3	Radio2(5G)	WLAN-61	56	17	Unidentified	Unidentified	2021-01-15 16:08:13
a008.6f99.13f4	Radio2(5G)	WLAN-31	56	17	Unidentified	Unidentified	2021-01-15 16:08:13

First Previous Page 5 of 10 Next Last 10 99 in total

- i** The system stores the latest scanning results, which overwrites earlier data.
- i** If the adjacent AP SN and MAC address are unidentified, it indicates that the RF source is not managed by the system; otherwise, the RF signal is emitted by an AP.

It displays the RSSI of SIM card by time. Green indicates a high RSSI, yellow indicates a medium RSSI, and red indicates a low RSSI. You can export the RSSI data.

● Device Log

Device Log

All Search

Type	Updated at	Content
Online/Offline	2021-01-05 19:14:56	Device goes online for the first time
Online/Offline	2021-01-03 21:45:44	Device online
Online/Offline	2021-01-03 21:41:07	Device offline. The final time when it sends packets to MACC is: 2021-01-03 21:41:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-30 10:55:30	Device online
Online/Offline	2020-12-30 10:54:07	Device offline. The final time when it sends packets to MACC is: 2020-12-30 10:54:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-30 10:49:15	Device goes online for the first time

First Previous Page 1 of 1 Next Last 10 6 in total

The device log records the historical operations, and currently supports the online/offline records, restart records, and upgrade records, and supports queries based on the log type and period.

### 5.5.1.3 Basic AP Operations

- Add

AP List New firmware available for 2 devices

Add Web CLI More 0 Selected


<input type="checkbox"/>	Status	SN	Config Status	MAC
<input type="checkbox"/>	Online	G1PD38G025082	Synchronized	300d.9e23.4b93
<input type="checkbox"/>	Online	G1PQ5AM03222A	Synchronized	300d.9e56.bfe9
<input type="checkbox"/>	Online	MACCR12676715	Synchronized	00d0.f8bd.ac8f

Select the network, and click **Add**. Both batch import and manual add are supported.

Click **Download Template** to download the template, enter AP information, and click **File** to import the template.

Add

Download and fill in the template.Up to 500 records can be imported



File Download Template

Add a Device Close

Click **Add a Device**, enter SN and alias of the AP, and click **OK**. Click **+** to add multiple APs.



Add ×

1 SN  Alias  🗑️ +

Batch Import OK Close

● Move to

AP List New firmware available for 1 devices

Add Web CLI More ▾ 0 Selected

		Config Status
<input type="checkbox"/>		
<input checked="" type="checkbox"/>	06997	Synchronized
<input type="checkbox"/>	913C	Synchronizing

Select one or multiple devices in the **AP List**, click **More > Move to**, select the new network and click **OK**.

Select Network ×

- default
- eg\_test
- egtest
- 1608010988081
- 

Unfold Fold Search  OK Cancel

● Delete

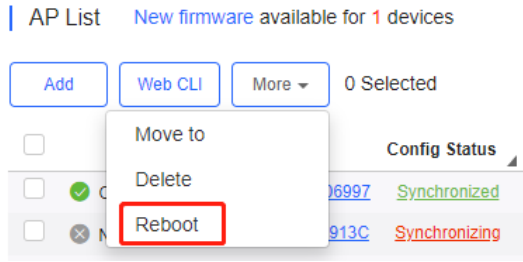
AP List New firmware available for 1 devices

Add Web CLI More ▾ 0 Selected

		Config Status
<input type="checkbox"/>		
<input checked="" type="checkbox"/>	06997	Synchronized
<input type="checkbox"/>	913C	Synchronizing

Select one or multiple devices in the **AP List**, click **More > Delete** and click **OK**.

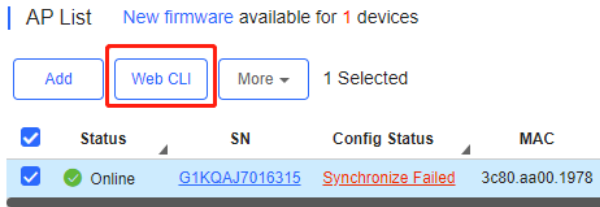
- Reboot



Select one or multiple devices in the **AP List**, and click **Reboot**.

### 5.5.1.4 Web CLI

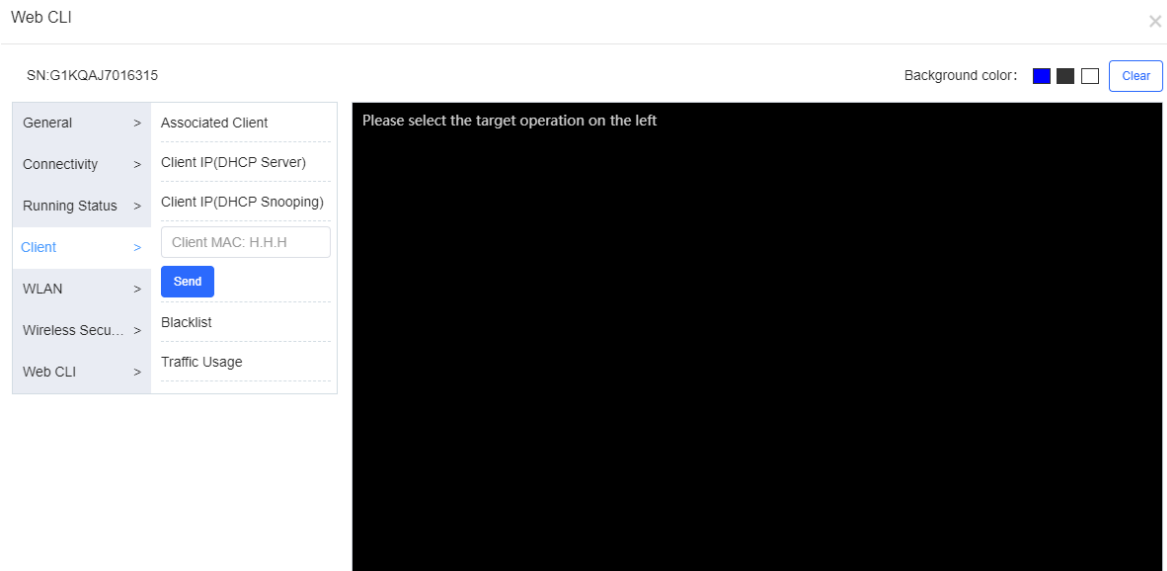
Select one or multiple devices in the **AP List**, and click **Web CLI**. The **Web CLI** dialog box is displayed, and device information can be queried via the menus in this dialog box. The menus vary with the products.



In the command entry box, the **TAB** key and question mark (?) both can complete a command.

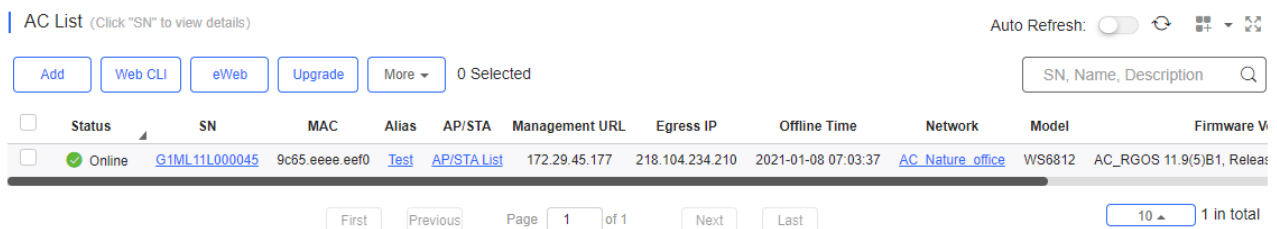


To kick off clients or add clients to blacklist, enter the MAC address in the format of "H.H.H" n **Client**.



## 5.5.2 AC

### 5.5.2.1 AC List



The **AC List** displays basic device information, including online/offline status, SN, alias, management IP, MAC, public IP, network, firmware version, offline time, model and description.

The **AC List** automatically refreshes every minute. Click **Auto Refresh** to enable/disable the auto refresh function.

Above the list are the **Add**, **Web CLI**, **eWeb** and **Upgrade** functions. Click **More** to display **Reboot**, **Export** and **Delete** functions. For more information, refer to **Basic AC Operations**.

The **Search** function supports fuzzy queries based on the serial number, alias and description.

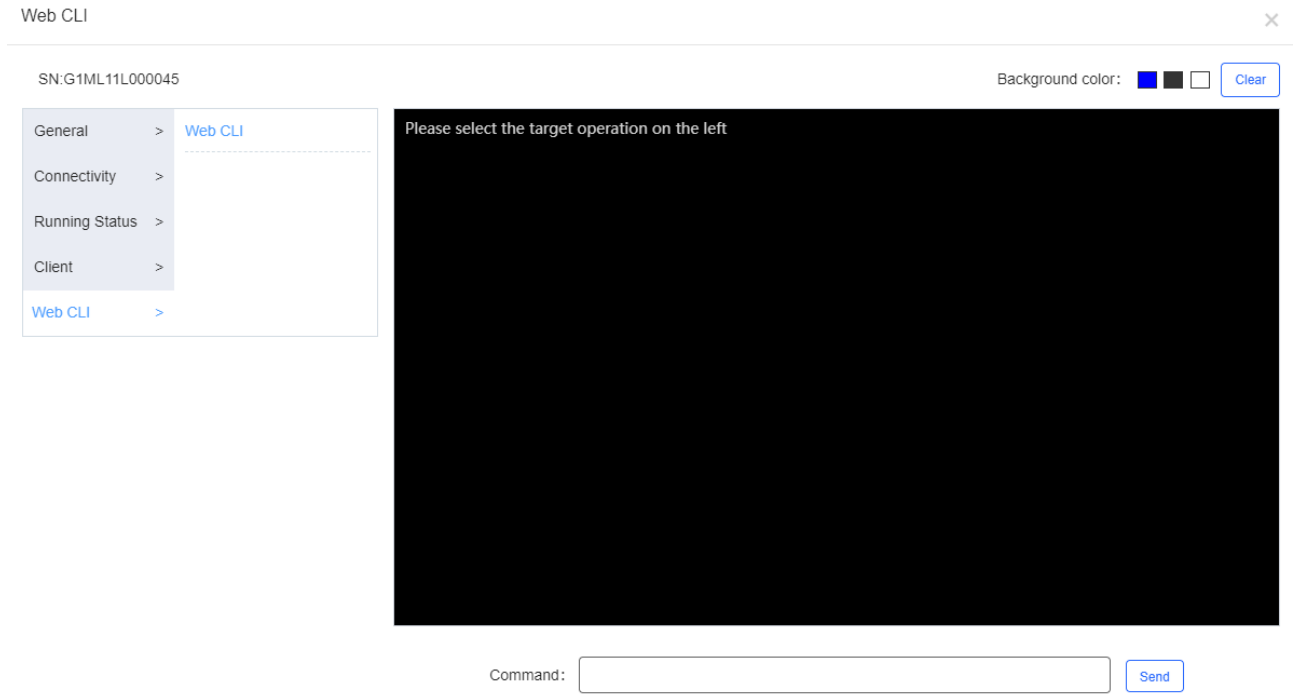
### 5.5.2.2 Device Details

Click the serial number in the device list to open the details page for a single device.

- Web CLI



Click **Web CLI**, and the **Web CLI** page is displayed. The **Web CLI** page provides commonly-used CLI commands on the left. Click the command, or manually enter the command and click **Send**.

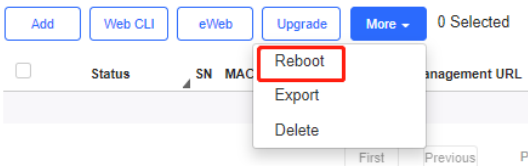


● eWeb



Click **eWeb** to open the eWeb system in a new window.


● More > Reboot



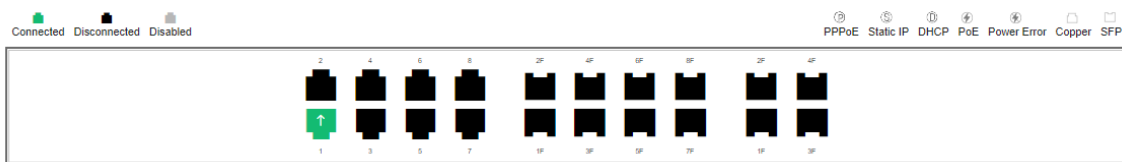
Click **More > Reboot** to reboot the AC.

● Refresh



Click  to refresh all data in the page.

● Port Panel



The port panel imitates the actual AC panel, displaying the port type and status.

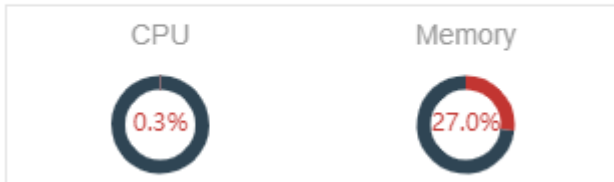
● Basic

<b>Basic</b>	
Alias:	ac177
MGMT Password:	*****
Model:	WS6812
SN:	G1ML11L000045
MAC:	9c65.eeee.eef0
Firmware Version:	AC_RGOS 11.9(5)B1, Release(06240613)
MGMT IP:	172.29.45.177
Description:	

Basic information displays the alias, model, SN and other information. Alias, MGMT password and description can be edited.

- Overview > CPU & Memory Usage

### CPU & Memory Usage



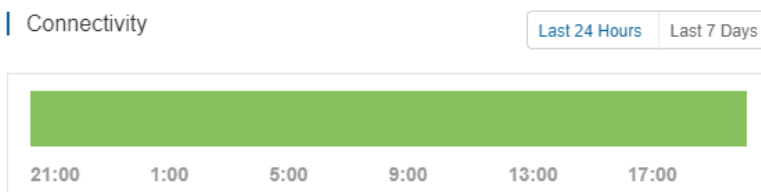
CPU & memory usage are displayed here.

- Overview > Device Status

<b>Device Status</b>	
Online Status	Online
Online Clients	0
Active Clients	0

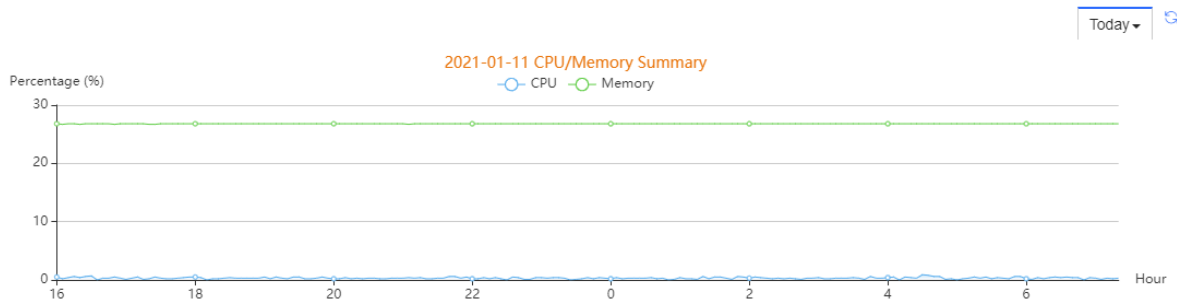
Device status displays online status, online clients and active clients.

- Overview > Connectivity



Connectivity refers to the connectivity (online status) between AC and Cloud Service within a period (1 day or 7 days).

- Overview > CPU/Memory Summary



CPU/memory summary over the 24 hours are displayed.

● Overview > Device Log

Log Record

Device Log (highlighted) Config Log

All Search Refresh View

Type	Updated at	Content
Online/Offline	2021-01-08 07:10:36	Device online
Reboot	2021-01-08 07:10:36	Device restart
Online/Offline	2021-01-08 07:03:37	Device offline by user restart
VLAN Change	2021-01-08 06:17:09	VLAN 120 is added to the device.;
Online/Offline	2020-12-28 02:21:54	Device online
Online/Offline	2020-12-27 02:47:07	Device offline. The final time when it sends packets to MACC is: 2020-12-27 02:47:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-21 03:24:36	Device online
Online/Offline	2020-12-21 01:29:07	Device offline. The final time when it sends packets to MACC is: 2020-12-21 01:29:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-16 12:09:46	Device goes online for the first time
Online/Offline	2020-12-16 12:06:23	Device goes online for the first time

First Previous Page 1 of 2 Next Last

10 11 in total

The device log records the historical operations, including online/offline, restart, upgrade and VLAN change, and supports queries based on log type and time.

● Overview > Config Log

Log Record

Device Log Config Log (highlighted)

Search Refresh View

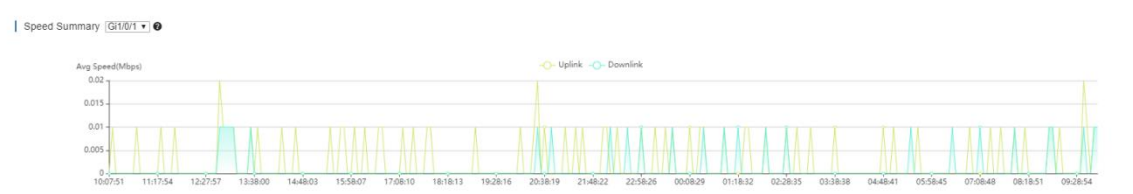
Operation Type	Started at	Ended at	Status	Description	Details
+ Batch deliver CLI command	2020-12-29 06:10	2020-12-29 06:10	Succeeded		
+ Batch deliver CLI command	2020-12-28 02:22	2020-12-28 02:22	Succeeded		


First Previous Page 1 of 1 Next Last

10 2 in total

The Config log records the historical configuration delivery, and supports queries based on status and time.

● Port > Speed Summary



Uplink & downlink speed of port are displayed. This page supports queries based on day, week and month. Click  to refresh the summary.

● Port > Port Status

| Port

Port Name	Admin Status	Status	Duplex Mode	Port Type	VLAN	PoE Status
Gi1/0/1	Enabled	Connected(1000M)	Full-duplex	Access	1	Unsupported
Te1/0/1	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Gi1/0/2	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Te1/0/2	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Gi1/0/3	Enabled	Connected(1000M)	Full-duplex	Access	120	Unsupported
Gi1/0/4	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Gi1/0/5	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Gi1/0/6	Enabled	Disconnected	Disconnected	Access	1	Unsupported
Gi1/0/7	Enabled	Disconnected	Disconnected	-	-	Unsupported
Gi1/0/8	Enabled	Disconnected	Disconnected	-	-	Unsupported

First Previous Page 1 of 1 Next Last 10 10 in total

Port information displays port name, VLAN etc.

● Config > AC Configuration Backup List

| Backup List

AC AP

Current Back up Download Restore Delete Compare 0 Selected

<input type="checkbox"/>	File Name	File Size	Time	Mode	MD5	Description	Action
<input type="checkbox"/>	G1ML11L000045_1610031963762.txt	6272		Auto	159f24bfa55132322ae9973e9fd6fb84	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609945564050.txt	6272		Auto	159f24bfa55132322ae9973e9fd6fb84	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609859163882.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609772764216.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609686363746.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609599964496.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609513562642.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609427163763.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609340765127.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609254363562.txt	6251		Auto	fe40d24a4c6f1319fa426b17c3856210	Add	Details

First Previous Page 1 of 3 Next Last 10 21 in total

The backup records include configuration file name, size, time, mode and MD5.

Click **Current** to display the current configuration. Click **Back up** in the **Config Details** page to back up the current configuration.

Config Details ✕

Building configuration...

Current configuration: 5378 bytes

version AC\_RGOS 11.9(5)B1, Release(06240613)

hostname ac177

!

wlan-config 1 ACtest1

ssid-code utf-8

wlan-based per-user-limit up-streams average-data-rate 200 burst-data-rate 200

wlan-based per-user-limit down-streams average-data-rate 200 burst-data-rate 200

Backup

Click **Back up** and then click **OK** in the message box to back up the current configuration.

Message ✕

Are you sure you want to back up the current configuration?

OK Cancel

Select one record, and click **Download** to download the configuration file.

Select one record, and click **Restore** to restore the current configuration.

Select one or multiple records, and click **Delete** to delete the backup record.

Select two records, and click **Compare** to compare the differences

Compare

G1ML11L000045\_1585753262845.txt

```
1151 web-auth template wifidog_1 wifidog
1200 ip 172.31.193.83
1221 nss-ip 1.2.3.4
1222 url http://172.31.193.83/auth/wifidogAuth
1223 redirect http
1246 !
1255 web-auth template wechat_0 wechat
1266 key ruijie
1277 service-url 5.5.5.5
1288 nss-ip 1.2.3.4
1299 redirect http
1360 !
1381 username admin password ruijie123
1332 username lyf web-auth password 123456
1393 !
1354 aaa new-model
1355 !
1366 aaa accounting network iportal_account start-stop none
1377 aaa authentication login default local
1388 aaa authentication iportal 1 local
1399 no identify-application enable
1400 !
1441 cmp
1442 acs url https://35-221-95-230/service/r-060service
1443 cpe inform interval 60
```

G1ML11L000045\_1586012511307.txt

```
1151 web-auth template wifidog_1 wifidog
1200 ip 172.31.193.83
1221 nss-ip 1.2.3.4
1222 url http://172.31.193.83/auth/wifidogAuth
1223 redirect http
1246 !
1255 web-auth template wechat_0 wechat
1266 key ruijie
1277 service-url 5.5.5.5
1288 nss-ip 1.2.3.4
1299 redirect http
1360 !
1381 username admin password ruijie123
1332 username lyf web-auth password 123456
1393 !
1354 aaa new-model
1355 !
1366 aaa accounting network iportal_account start-stop none
1377 aaa authentication login default local
1388 aaa authentication iportal 1 local
1399 no identify-application enable
1400 !
1441 cmp
1442 acs url http://cloudtest-as.ruijienetworks.com/service/acs/G1ML11L000045
1443 cpe inform interval 60
```

- Config > AP Configuration Backup List



Backup List

AC **AP**

Download Delete Compare 0 Selected

<input type="checkbox"/>	File Name	File Size	Time	Mode	MD5	Description	Action
<input type="checkbox"/>	G1ML11L000045_1610031966206.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609945565681.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609859166618.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609772765789.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609686365273.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_160959969361.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609513564367.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609427165702.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input checked="" type="checkbox"/>	G1ML11L000045_1609340766495.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details
<input type="checkbox"/>	G1ML11L000045_1609254364964.txt	983		Auto	bc52eb43ae4e675b0dc1beda4158f4b5	Add	Details

First Previous Page 1 of 3 Next Last 10 23 in total

The backup records include configuration file name, size, time, mode and MD5.

Select one record, and click **Download** to download the configuration file.

Select one or multiple records, and click **Delete** to delete the backup record.

Select two records, and click **Compare** to compare the differences

Compare

G1ML11L000045\_1585753262845.txt

```

119 web-auth template wifidog_1 wifidog
120 ip 172.31.193.83
121 nas-ip 1.2.3.4
122 url http://172.31.193.83/auth/wifidoghuth
123 redirect http
124 !
125 web-auth template wechat_0 wechat
126 key ruifje
127 service-url 5.5.5.5
128 nas-ip 1.2.3.4
129 redirect http
130 !
131 username admin password ruifje123
132 username lyf web-auth password 123456
133 !
134 aaa new-model
135 !
136 aaa accounting network iportal_account start-stop none
137 aaa authentication login default local
138 aaa authentication iportal 1 local
139 no identify-application enable
140 !
141 comp
142 acs url https://35-221-95-230/service/acs/069service
143 cpe inform interval 300

```

G1ML11L000045\_1586012511307.txt

```

119 web-auth template wifidog_1 wifidog
120 ip 172.31.193.83
121 nas-ip 1.2.3.4
122 url http://172.31.193.83/auth/wifidoghuth
123 redirect http
124 !
125 web-auth template wechat_0 wechat
126 key ruifje
127 service-url 5.5.5.5
128 nas-ip 1.2.3.4
129 redirect http
130 !
131 username admin password ruifje123
132 username lyf web-auth password 123456
133 !
134 aaa new-model
135 !
136 aaa accounting network iportal_account start-stop none
137 aaa authentication login default local
138 aaa authentication iportal 1 local
139 no identify-application enable
140 !
141 comp
142 acs url http://cloudtest-as.ruifjienetworks.com/service/acs/G1ML11L000045
143 cpe inform interval 60

```

● Tunnel > Create Tunnel

Create Tunnel

Type:

Select the tunnel type and click **Create Tunnel**. The tunnel types include Telnet, eWeb and SSH.

● Tunnel > Tunnel List

Tunnel List

Click Refresh to update the tunnel status. If the tunnel is unavailable, please close the tunnel and re-create it. If the re-created tunnel is still unavailable, please contact us for support.

Type	Host	Port	Destination Device	Expired at	Status	Action
Telnet	35.230.251.32	10066	Local	2020-04-07 13:48	Creating	
eWeb	34.04.133.148	10001	Local	2020-04-07 12:34	Connecting	Disable Go

First Previous Page 1 of 1 Next Last 10 2 in total

Tunnel information includes tunnel type, host, port, destination device, expiration time and status. Click **Re-create** in the **Action** column to re-create a tunnel. Click **Telnet/eWeb** in the **Action** column to open the corresponding page.

### 5.5.2.3 Basic AC Operations

- Add AC Network

Add Network → Add Network → Add Device → Finish

Basic

Enterprise / Office   Villa / Home   Hotel

CCTV   Factory / Warehouse   Retail Chain

Education   Shopping Center   Other

Time Zone: (GMT+8:00)Asia/Shanghai

Type:  Cloud + AP    AC + Fit AP

- Add

AC List (Click "SN" to view details)

Auto Refresh:

0 Selected

SN, Name, Description

Status	SN	MAC	Alias	AP/STA	Management URL	Egress IP	Offline Time	Network	Model	Firmware V
<input type="checkbox"/>	Online	G1ML11L000045	9c65.eeee.eef0	Test	AP/STA List	172.29.45.177	218.104.234.210	2021-01-08 07:03:37	AC Nature_office	WS6812 AC_RGOS 11.9(5)B1, Release

First Previous Page 1 of 1 Next Last

10 1 in total

Click **Add**, enter the SN and Alias, and click **OK** to add an AC to the network. Only one AC can be added to a network.

Add

SN:  Alias:

AC List (Click "SN" to view details)

Auto Refresh:

0 Selected

SN, Name, Description

Status	SN	MAC	Alias	AP/STA	Management URL	Egress IP	Offline Time	Network	Model	Firmware Version	Description	Action
<input type="checkbox"/>	Not Online Yet	1234567891111	test001	AP/STA List			-	AC Nature_office				<a href="#">Add</a> <input type="button" value="Delete"/>

First Previous Page 1 of 1 Next Last

10 1 in total

- Web CLI

AC List (Click "SN" to view details) Auto Refresh:

1 Selected SN, Name, Description

<input checked="" type="checkbox"/>	Status	SN	MAC	Alias	AP/STA	Management URL	Egress IP	Offline Time	Network	Model	Firmware V
<input checked="" type="checkbox"/>	Online	G1ML11L000045	9c65.eeee.eef0	Test	<a href="#">AP/STA List</a>	172.29.45.177	218.104.234.210	2021-01-08 07:03:37	<a href="#">AC Nature_office</a>	WS6812	AC_RGOS 11.9(5)B1, Release

Page  of 1    1 in total

Select the device to be managed by CLI command, click **Web CLI**. The **Web CLI** page provides commonly-used CLI commands on the left. Click the command, or manually enter the command and click **Send**. Only one AC can be configured at a time.

Web CLI X

SN:G1ML11L000045 Background color:

General > [Web CLI](#)

Connectivity >

Running Status >

Client >

[Web CLI](#) >

Please select the target operation on the left

Command:

● **eWeb**

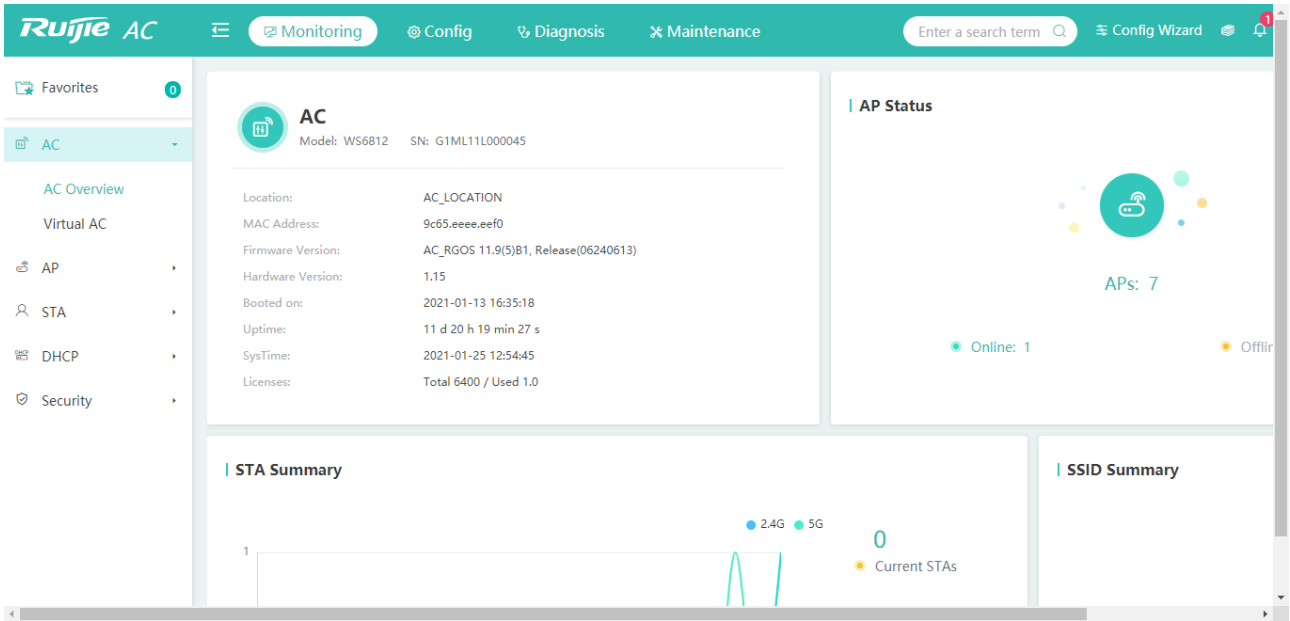
AC List (Click "SN" to view details) Auto Refresh:

0 Selected SN, Name, Description

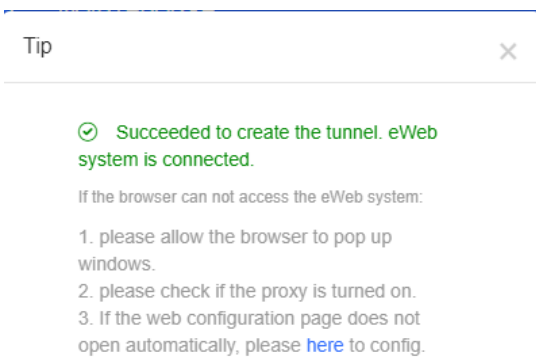
<input type="checkbox"/>	Status	SN	MAC	Alias	AP/STA	Management URL	Egress IP	Offline Time	Network	Model	Firmware V
<input type="checkbox"/>	Online	G1ML11L000045	9c65.eeee.eef0	Test	<a href="#">AP/STA List</a>	172.29.45.177	218.104.234.210	2021-01-08 07:03:37	<a href="#">AC Nature_office</a>	WS6812	AC_RGOS 11.9(5)B1, Release

Page  of 1    1 in total

Select the device and click **eWeb**. The system will connect to AC and automatically open the eWeb page in a new window.



If a tunnel is created successfully but the eWeb page does not automatically open, a message is displayed as below. The user can manually click the link to open the page.

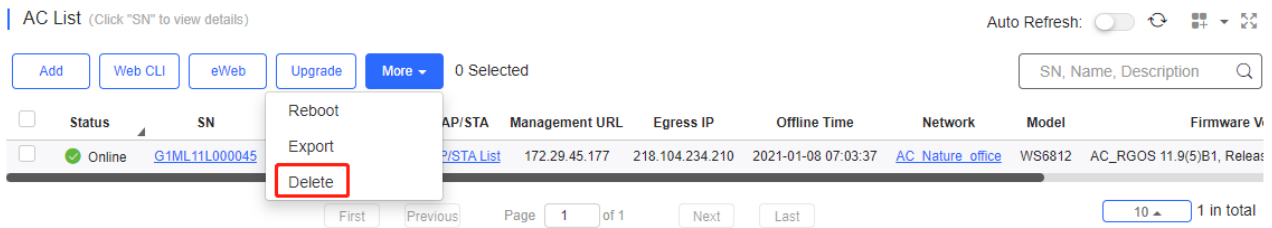


### ● Reboot



Select the device in the **AC List**, click **More > Reboot** and click **OK**.

### ● Delete



Select the device in the **AC List**, click **More > Delete** and click **OK**.

### 5.5.2.4 AP / STA List

Click **AP/STA List** to display the AP and STA list.

AC List (Click "SN" to view details) Auto Refresh:

1 Selected
 SN, Name, Description

<input checked="" type="checkbox"/>	Status	SN	MAC	Alias	AP/STA	Management URL	Egress IP	Offline Time	Network	Model	Firmware V
<input checked="" type="checkbox"/>	Online	<a href="#">G1ML11L000045</a>	9c65.eeee.eef0	Test	AP/STA List	172.29.45.177	218.104.234.210	2021-01-08 07:03:37	<a href="#">AC_Nature_office</a>	WS6812	AC_RGOS 11.9(5)B1, Release

Page  of 1
 

 1 in total

---

Fit AP List

Status	MAC	SN	IP	Alias	Firmware Version	Model	Network	Description
Offline	<a href="#">0074.9ca8.2d3a</a>			0074.9ca8.2d3a				
Offline	<a href="#">0074.9ca8.2e32</a>			0074.9ca8.2e32				
Offline	<a href="#">0074.9cbd.ad76</a>			0074.9cbd.ad76				
Offline	<a href="#">8005.8808.f0c6</a>			8005.8808.f0c6				
Offline	<a href="#">8005.8817.df1c</a>			8005.8817.df1c				

Page  of 1
 

 5 in total

0 Selected

---

STA List

<input type="checkbox"/>	IP	Client MAC	SSID	Online Time	Uplink Speed	Downlink Speed	Speed	Uplink Traffic	Downlink Traffic	Traffic	Band	RSSI	Auth Mode	Access Type	Channel	Uptime
No Data																

Page  of 0
 

 0 in total

0 Selected

## 5.5.3 Switch

### 5.5.3.1 Switch List

Switch List New firmware available for 1 devices Auto Refresh:

0 Selected
 SN, Alias, Description

<input type="checkbox"/>	Status	SN	MAC	Alias	MGMT IP	Egress IP	Offline Time	Network	Model	Firmware Version
<input type="checkbox"/>	Online	<a href="#">CAP70CA00054C</a>	300d.9ed0.b7c2	<a href="#">EsA</a>	192.168.110.57	125.77.81.217	-	<a href="#">Binnyuuu</a>	ES209GC-P	<a href="#">ESW_1.0(1)B1P3.Release(07200415</a>
<input type="checkbox"/>	Online	<a href="#">G1MV35M000029</a>	5869.6ccb.eb86	<a href="#">s2910cx</a>	192.168.118.43	125.77.81.217	-	<a href="#">Binnyuuu</a>	S2910C-24GT2XS-P-E	S29_RGOS 11.4(1)B74P1, Release(
<input type="checkbox"/>	Online	<a href="#">G1NWC1T000066</a>	5869.6cfb.22c5	<a href="#">Ruijie</a>	192.168.110.175	125.77.81.217	-	<a href="#">Binnyuuu</a>	NBS3100-8GT2SFP-P	SWITCH_3.0(1)B11P30.Release(072
<input type="checkbox"/>	Not Online Yet	<a href="#">CANL437000138</a>		<a href="#">Empty</a>			-	<a href="#">Binnygggg</a>	ES205GC-P	

Page  of 1
 

 4 in total

The **Switch List** displays basic device information, including the online/offline status, SN, MAC, alias, management IP & public IP, offline time, network, model, firmware version and description.

The **Switch List** automatically refreshes every minute. Click Auto Refresh:  to enable/disable the auto refresh function.

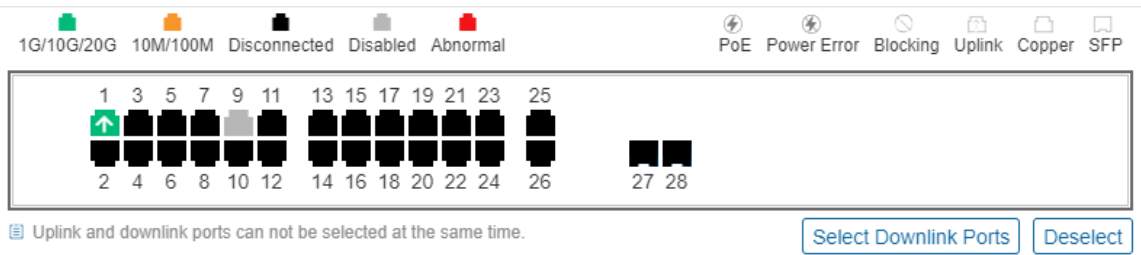
Above the list is the **Add** function. Click  to display the **Move to**, **Delete**, and **Reboot** functions. For more information, refer to **Basic Switch Operations**.

The **Search** function supports fuzzy queries based on the serial number, alias and description, and also supports queries based on online/offline status.

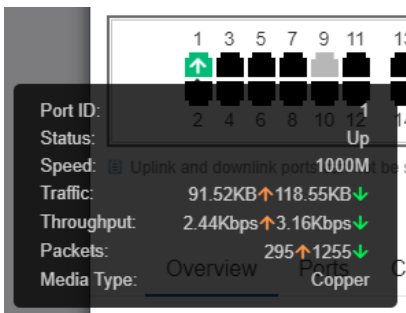
### 5.5.3.2 Device Details

Click the SN in the **Switch List** to open the details page of a single device. The page displays detailed device information, including the port panel, basic information, overview, ports, config, PoE and diagnosis.

- Port Panel

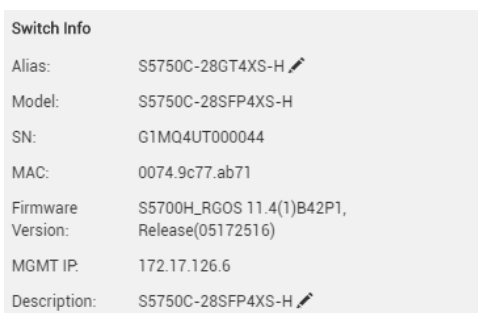


The port panel imitates the actual switch panel, displaying the port type, status and speed.



When you point to a port, the traffic, speed and other information of the port will be displayed.

- Switch Info



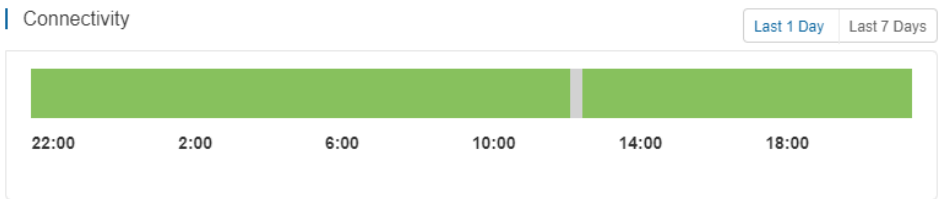
Switch information includes the alias, model, SN and other information. **Alias** and **Description** can be edited.

- Overview > CPU & Memory Usage

CPU & Memory Usage



● Overview > Connectivity



Connectivity refers to the connectivity (online status) between Switch and Cloud Service within a period (1 day or 7 days).

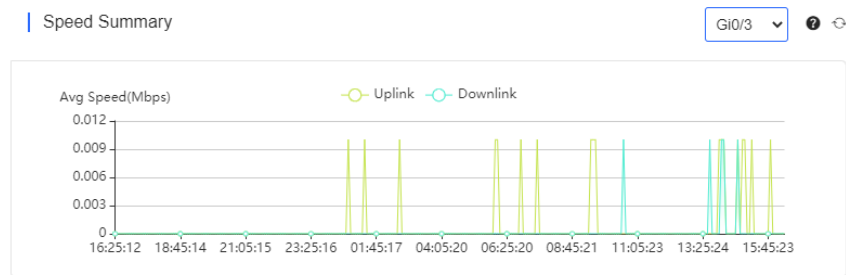
● Overview > Uplink

Uplink

Port	Gi0/1
Speed	1000M
Duplex	Full-duplex
Uplink/Downlink Speed	1.11Kbps ↑ 5.56Kbps ↓
Uplink/Downlink Traffic	41.52KB ↑ 208.65KB ↓

Uplink information includes the port, speed, duplex, uplink/downlink speed and uplink/downlink traffic.

● Overview > Speed Summary



Speed summary includes the uplink/downlink speed summary over the past 24 hours.

● Overview > Device Log

Log Record

Device Log Config Log Port Log

All Search

Type	Updated at	Content
Online/Offline	2021-01-05 19:42:15	Device goes online for the first time
Online/Offline	2021-01-04 17:35:16	Device online
Online/Offline	2021-01-04 17:35:07	Device offline. The final time when it sends packets to MACC is: 2021-01-04 17:35:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-28 10:19:00	Device online
Online/Offline	2020-12-27 10:48:07	Device offline. The final time when it sends packets to MACC is: 2020-12-27 10:48:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-21 16:38:06	Device goes online for the first time
Online/Offline	2020-12-21 11:24:35	Device online
Online/Offline	2020-12-21 09:29:07	Device offline. The final time when it sends packets to MACC is: 2020-12-21 09:29:07(It is an estimated value. The deviation is 1 minute.)
VLAN Change	2020-12-16 11:25:58	VLAN 3 is deleted from the device.;
VLAN Change	2020-12-16 11:23:53	VLAN 3 is added to the device.;

First Previous Page 1 of 2 Next Last

10 17 in total

The device log records the historical operations, including online/offline, restart, upgrade, and VLAN change, and supports queries based on log type and time.

● Overview > Config Log

Log Record

Device Log **Config Log** Port Log

Q Search

Operation Type	Started at	Ended at	Status	Description	Details
+ Switch config	2021-01-08 15:07	2021-01-08 15:07	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/13];W...	
+ Switch config	2021-01-08 14:54	2021-01-08 14:54	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/15];P...	
+ Switch config	2021-01-08 14:46	2021-01-08 14:46	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/13];P...	
+ Switch config	2021-01-08 14:37	2021-01-08 14:37	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/24];P...	
+ Switch config	2021-01-08 14:04	2021-01-08 14:04	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/2];Wh...	
+ Switch config	2021-01-08 14:02	2021-01-08 14:03	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/2];Wh...	
+ Switch config	2021-01-08 14:02	2021-01-08 14:02	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/2];Por...	
+ Switch device group	2021-01-08 13:57	2021-01-08 13:57	Succeeded	Device: G1MV35M000029; Group is changed ...	
+ Configure device name	2021-01-08 13:57	2021-01-08 13:57	Succeeded		Device name is set to [s2910cx]
+ Switch config	2021-01-08 09:32	2021-01-08 09:32	Succeeded	Device: G1MV35M000029;Port ID: [Gi0/11];Po...	

First Previous Page 1 of 3 Next Last 10 27 in total

The config log records the historical configuration delivery, and supports queries based on status and time.

● Overview > Port Log

Log Record

Device Log Config Log **Port Log**

Port 2021-01-08 Q Search

Port	Updated at	Content
Gi0/3	2021-01-08 16:09:15	The neighboring device of port Gi0/3 is changed.
Gi0/13	2021-01-08 15:07:56	The L3 interface switch of port Gi0/13 is changed to Power Off.; The VLAN of port Gi0/13 is changed from Null to 1
Gi0/15	2021-01-08 14:54:54	The L3 interface switch of port Gi0/15 is changed to Power On.
Gi0/13	2021-01-08 14:46:36	The L3 interface switch of port Gi0/13 is changed to Power On.
Gi0/24	2021-01-08 14:37:12	The L3 interface switch of port Gi0/24 is changed to Power On.
Gi0/2	2021-01-08 14:05:00	The L3 interface switch of port Gi0/2 is changed to Power Off.
Gi0/2	2021-01-08 14:04:51	The VLAN of port Gi0/2 is changed from Null to 1
Gi0/2	2021-01-08 14:03:13	The L3 IP of port Gi0/2 is changed from none/0.0.0.0/0.0.0.0 to dhcp/0.0.0.0/0.0.0.0.
Gi0/2	2021-01-08 14:03:03	The L3 IP of port Gi0/2 is changed from static/1.1.1.1/255.255.255.0 to none/0.0.0.0/0.0.0.0.
Gi0/2	2021-01-08 14:02:21	The L3 IP of port Gi0/2 is changed from none/0.0.0.0/0.0.0.0 to static/1.1.1.1/255.255.255.0.

First Previous Page 1 of 2 Next Last 10 13 in total

The port log records the changes of port configuration, and supports queries based on port ID and time.

● Ports > Port Settings

Port Settings Port: Gi0/5

Admin Status	Enabled	Routed Port	<input type="checkbox"/>
Duplex Mode	Auto-negotiation	Type	Access
Speed	Auto	VLAN ID	1
Description			
PoE-Capable	On		
Media Type	Unsupported		

Save



Select one or multiple ports in the port panel to display and edit the port configuration, including admin status, duplex mode and speed.

● Ports > Port List

Port List

Port	Admin Status	Status	Duplex Mode	Port Type	VLAN ID	PoE Status
Gi0/1	Enabled	Connected(1000M)	Full-duplex	Access	1	Off
Gi0/2	Enabled	Disconnected	Disconnected	Access	1	Off
Gi0/3	Enabled	Connected(1000M)	Full-duplex	Access	1	Off
Gi0/4	Enabled	Disconnected	Disconnected	Access	1	Off
Gi0/5	Enabled	Connected(100M)	Full-duplex	Access	1	On
Gi0/6	Enabled	Disconnected	Disconnected	Access	1	Off
Gi0/7	Enabled	Connected(1000M)	Full-duplex	Access	1	Off
Gi0/8	Disabled	Disconnected	Disconnected	Access	1	On
Gi0/9	Disabled	Disconnected	Disconnected	Access	1	Unsupported
Gi0/10	Enabled	Disconnected	Disconnected	Access	1	Unsupported

First Previous Page 1 of 1 Next Last 10 10 in total

Port list includes the information of all ports, including port ID, admin status, port status, duplex mode, port type, VLAN ID and PoE status, and support queries based on admin status, port type and PoE status.

● Config > VLAN List

VLAN List

Add

VLAN ID	Port	Action
1	Gi0/1, Gi0/2, Gi0/3, Gi0/4, Gi0/5, Gi0/7, Gi0/8, Gi0/9, Gi0/10, Gi0/12, Gi0/14, Gi0/16, Gi0/17, Gi0/18, Gi0/19, Gi0/20, Gi0/21, Gi0/22, Gi0/23, Te0/25, Te0/26	
2	Gi0/1	
10	Gi0/1	
109	Gi0/1	
150	Gi0/1	
164	Gi0/1	
171	Gi0/1	
221	Gi0/1	
3191	Gi0/1	
4094	Gi0/1, Gi0/6	

First Previous Page 1 of 1 Next Last 10 10 in total

VLAN list includes the VLAN ID and the correspondingly ports.

● Config > SVI & DHCP

SVI&DHCP

Add

VLAN ID	SVI	DHCP Pool Name	Action
150	192.168.150.1	vlan150	<a href="#">Edit</a> <a href="#">Delete SVI</a> <a href="#">Delete DHCP</a>
164	192.168.164.1	-	<a href="#">Edit</a> <a href="#">Delete SVI</a>
171	192.168.171.1	-	<a href="#">Edit</a> <a href="#">Delete SVI</a>

First Previous Page 1 of 1 Next Last 10 3 in total

SVI & DHCP information includes VLAN ID, SVI and DHCP pool name. You can add, edit or delete the SVI or DHCP configuration.

SVI&DHCP Configuration✕

---

VLAN ID  \*

IP  \*

Subnet Mask  \*

DHCP Service

---

Name  \*

IP Segment  \*

Subnet Mask  \*

Gateway  \*

[Advanced](#) ^

Lease Time  Minutes ▼

Excluded Address   +

DNS Server

Click **Add** to configure the IP and subnet mask of a VLAN, and configure the name, IP segment, subnet mask and gateway of DHCP service.

● Config > DHCP

DHCP Snooping

DHCP Snooping Status

Trust the selected ports (The uplink port is selected by default)

Selected Unselected Non-configurable

Uplink  Copper  SFP

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

Tip: The uplink port is selected by default if it is not a layer-3 interface. If the port connecting to the DHCP server is not an uplink port, please select it manually. Click to select or deselect the port.

Please click Save after configuration.

Enable **DHCP Snooping Status**, select ports and click **Save**. The uplink port is selected by default if it is not routed port. If the port connecting to the DHCP server is not an uplink port, please select it manually.

● Config > RLDP

RLDP

Status

Auto Config

Warning Warning and Block Warning and Shutdown Shutdown SVI Unavailable Detection Disabled Uplink Copper SFP

Tip: Click to select or deselect the port.

Select All Deselect Refresh

Config Port: Gi0/5

Type: Loop Detection Troubleshooting: Warning

Save

Enable **Status**, select one or multiple ports, choose the troubleshooting method for a loop, and click **Save**. The troubleshooting methods include **Detection Disabled**, **Warning**, **Block**, **Shutdown-port** and **Shutdown-SVI**. If **Warning** is chosen, the **Switch loop** alarm should be enabled in the **Alarm Settings** page.

Alarm Settings

Type	Status
Device offline alarm	<input checked="" type="checkbox"/>
Device goes online/offline frequently	<input checked="" type="checkbox"/>
All device offline	<input checked="" type="checkbox"/>
Channel utilization	<input checked="" type="checkbox"/>
Device configuration changes	<input checked="" type="checkbox"/>
System indicator (CPU, memory usage, etc.) beyond threshold	<input checked="" type="checkbox"/>
Switch loop	<input checked="" type="checkbox"/>
Switch port status	<input checked="" type="checkbox"/>

Click **Auto Config** to enable the default configuration.

Message

The uplink ports of this switch is Gi0/1

Recommended Config: Detect the loop on all ports except uplink and non-configurable ports. The troubleshooting policy is warning (for aggregate port: shutdown-port).

You can click Cancel to manually select ports and customize the policy.

OK Cancel

● Config > Service List

Service List

Service	Admin Status	Value
eWeb	<input checked="" type="checkbox"/>	Login Password <input type="text"/>

First Previous Page 1 of 1 Next Last

10 1 in total

Configure the admin status and login password of the eWeb service.

● Config > Configuration Backup List

| Configuration Backup List

Current Backup Download Restore Delete Compare 0 Selected

<input type="checkbox"/>	File Name	File Size	Time	Mode	MD5	Description	Action
<input type="checkbox"/>	G1MV35M000029_1610118364316	2.58K	2021-01-08 23:06:02	Auto	d470e97fe3019fb45540557b344d16ab	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1609859164904	2.50K	2021-01-05 23:06:02	Auto	d4485d4f04e54da8c64cc363b35f4907	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1608649563277	2.50K	2020-12-22 23:06:02	Auto	690d6ccb6fb2485755f70c28d0542a85	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1608563182184	2.48K	2020-12-21 23:06:01	Auto	385e8abe677abe6fa6a45c5349bb1d96	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1608131166475	2.49K	2020-12-16 23:06:02	Auto	501814a12ffa9d077f2e1a3f13df92b4	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1608044763338	2.07K	2020-12-15 23:06:02	Auto	6cf5cd79eb8cce3ffddecc5c53e7fe3	Empty	<a href="#">Details</a>
<input type="checkbox"/>	G1MV35M000029_1607958370750	1.99K	2020-12-14 23:06:01	Auto	6f2d6f91d6581a180178e13a02655654	Empty	<a href="#">Details</a>

First Previous Page 1 of 1 Next Last 10 7 in total

The backup records include configuration file name, size, time, mode and MD5.

Click **Current** to display the current configuration. Click **Backup** in the **Config Details** page to back up the current configuration.

Config Details

```
Building configuration.
Current configuration: 2913 bytes

version S19_RGOS 11.4(1)B41P2, Release(05241922)
hostname XS-S1920-26GT2SFP-LP-E
!
rldp enable
ip dhcp snooping
!
cwmp
acs url http://35.234.108.108/service/tr069servlet
cpe inform interval 180
timer cpe-timeout 90
!
```

Backup

Select one record, and click **Download** to download the configuration file.

Select one record, and click **Restore** to restore the current configuration.

Select one or multiple records, and click **Delete** to delete the backup record.

Select two records, and click **Compare** to compare the differences.

Compare Config

```
G1LA0L3001227_1554152405697.txt
3 !
4 rldp enable
5 ip dhcp snooping
6 !
7 cwmp
8 acs url http://35.234.108.108/service/tr069servlet
9 cpe inform interval 180
10 timer cpe-timeout 90
11 !
12 install 0 XS-S1920-26GT2SFP-LP-E
13 !
14 ip name-server 8.8.8.8
15 !
16 enable service web-server http
17 webmaster level 0 username admin password 7 051902330a21444074
18 ip default-gateway 172.17.126.1
19 !
20 no service password-encryption
21 logging monitor informational
22 enable secret 5 $1$7eyy$E0DDq50y7xq7vEx3
23 !
24 vlan 20
25 name 20
26 !
27 vlan range 1-2,4-5,32-36,44,65,120,2000,2333,4093-4094

G1LA0L3001227_1554757205077.txt
3 !
4 rldp enable
5 ip dhcp snooping
6 !
7 cwmp
8 acs url http://35.234.108.108/service/tr069servlet
9 cpe inform interval 180
10 timer cpe-timeout 90
11 !
12 install 0 XS-S1920-26GT2SFP-LP-E
13 !
14 ip name-server 8.8.8.8
15 !
16 enable service web-server http
17 webmaster level 0 username admin password 7 051902330a21444074
18 ip default-gateway 172.17.126.1
19 !
20 no service password-encryption
21 logging monitor informational
22 enable secret 5 $1$7eyy$E0DDq50y7xq7vEx3
23 !
24 vlan 20
25 name 20
26 !
27 vlan range 1-2,4-5,32-36,2000,4093-4094
```

**Description** can be edited. Click **Details** in the **Action** column to check the backup configuration.

Description

4f97fd8687e36578 Empty [Details](#)

● PoE > PoE Port List

PoE Port List

Total Power:370.0 W, Current Power:13.0 W, Time:2021-01-15 17:33:23

Port	PoE-capable	PoE Status	Power	PD class	Description
Gi0/1	Disable	Off	0.0 W	NA	-
Gi0/2	Enable	Off	0.0 W	NA	-
Gi0/3	Enable	Off	0.0 W	NA	-
Gi0/4	Enable	Off	0.0 W	NA	-
Gi0/5	Enable	On	5.0 W	4(30W)	-
Gi0/6	Enable	Off	0.0 W	NA	-
Gi0/7	Enable	On	3.5 W	4(30W)	-
Gi0/8	Enable	Off	0.0 W	NA	-
Gi0/9	Enable	Off	0.0 W	NA	-
Gi0/10	Enable	Off	0.0 W	NA	-

First Previous Page 1 of 3 Next Last 10 ▲ 24 in total

PoE statistics are displayed above **PoE Port List**, including the total power, current power and time.

PoE configuration includes the port, PoE-capable, PoE status, power, PD class and description.

● Diagnose > Fault Diagnosis

Fault Diagnosis

Type

Port

Disabled Enabled Abnormal Not Supported Uplink Copper SFP

There are two types of fault diagnosis: **PoE Power Supply** and **SFP Port**. Select a port in the panel, click **Diagnose**, and the diagnosis procedure is displayed as below.

Procedure [History>>](#)

19:48:15 Complete  
Result: No exception detected

Advice: Please contact our after-sales personnel

19:48:15 Complete  
Result: No exception detected

Advice: Please contact our after-sales personnel

19:48:08 Port Gi0/3 Starting...

Click **History**, and the diagnosis history is displayed.

History [Procedure>>](#)

Status	Result	Advice	PoE-capable	PoE Status	PD Class	Voltage	Remaining Power	Start at
Complete	Cable exception detected	Please check the cable connection or peer device	Enable	off	N/A	0.0V	361.0 W	2021-01-15 17:41:56
Complete	Cable exception detected	Please check the cable connection or peer device	Enable	off	N/A	0.0V	366.0 W	2021-01-11 11:02:06

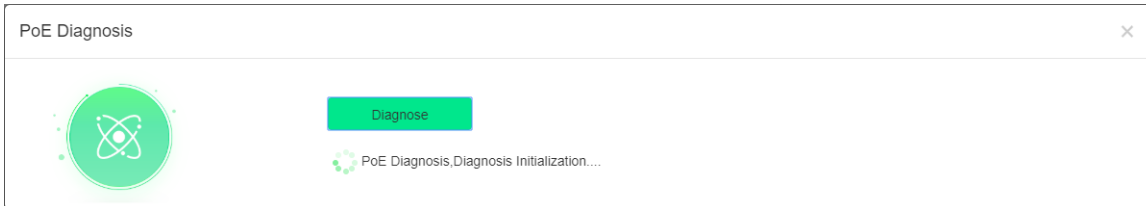
Page  of 1
 

10 ▲ 2 in total

Select a port in the panel, click **Deep Diagnose**, and click **Diagnose** in the **PoE Diagnosis** page.

Normal diagnosis: The Cloud server delivers CLI commands to collect the switch information, and the diagnosis occurs on the Cloud server.

Deep diagnosis: The diagnosis occurs on the switch, and the results are reported to the Cloud server.



### 5.5.3.3 Basic Switch Operations

#### ● Add

Switch List New firmware available for 5 devices

0 Selected

<input type="checkbox"/>	Status	SN	MAC
<input type="checkbox"/>	Online	G1PT5JY000371	300d.9e5f.1397
<input type="checkbox"/>	Offline	G1K91BE002942	5869.6cde.866a

Select the network, and click **Add**. Both batch import and manual add are supported.

Click **Download Template** to download the template, enter switch information, and click **'.xls' File** to import the template.


Add ×

Download and fill in the template. Up to 500 records can be imported

Click **Add a Device**, enter SN and alias of the switch, and click **OK**. Click **+** to add multiple switches.

Add ×

Download and fill in the template.Up to 500 records can be imported



---

● **Move to**

Switch List New firmware available

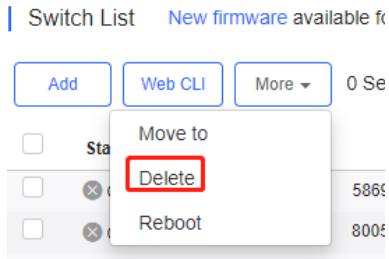
<input type="button" value="Add"/>	<input type="button" value="Web CLI"/>	<input type="button" value="More ▾"/>	0 5
<input type="checkbox"/>	Sta	<b>Move to</b>	
<input type="checkbox"/>	⊗	Delete	58
<input type="checkbox"/>	⊗	Reboot	80

Select one or multiple devices in the **Switch List**, click **More > Move to**, select the new network and click **OK**.

Select Network ×

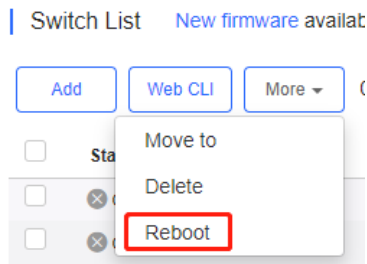
- 
- 
- 
- 

● **Delete**



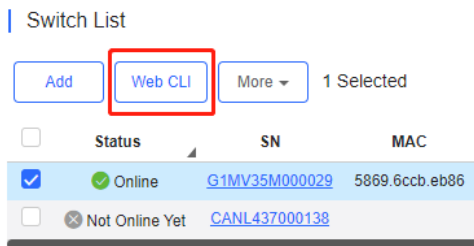
Select one or multiple devices in the **Switch List**, click **More > Delete** and click **OK**.

● **Reboot**



Select one or multiple devices in the **Switch List**, and click **Reboot**.

● **Web CLI**



Select one or multiple devices in the **Switch List**, and click **Web CLI**. The **Web CLI** dialog box is displayed, and device information can be queried via the menus in this dialog box. The menus vary with the products.





In addition, in the command entry box, the **TAB** key and question mark (?) both can complete a command.



## 5.5.4 Gateway

### 5.5.4.1 Gateway List

Gateway List New firmware available for 1 devices Auto Refresh:

0 Selected
 SN, Alias, Description

<input type="checkbox"/>	Status	SN	Alias	MGMT IP	MAC	Egress IP	Network	Firmware Version
<input type="checkbox"/>	Online	<a href="#">CAP70CB007243</a>	<a href="#">ewebnotice1607309236189</a>	192.168.1.132	300d.9ed0.d244	222.79.16.50	<a href="#">MaCc1607592320807</a>	EG_3.0(1)B11P30.Release(07222901)
<input type="checkbox"/>	Online	<a href="#">H1NTCF2074251</a>	<a href="#">Ruijie</a>	172.16.13.7	8005.88f4.7cea	114.251.56.237	<a href="#">elsa</a>	EG_3.0(1)B11P20.Release(07161803)
<input type="checkbox"/>	Online	<a href="#">H1PT6F2030356</a>	<a href="#">RuijieEG105G</a>	192.168.100.6	300d.9e6e.9cae	222.79.16.50	<a href="#">ReveeEG</a>	EG_3.0(1)B11P32.Release(08130612)
<input type="checkbox"/>	Offline	<a href="#">H1M722K000263</a>	<a href="#">Ruijie1605765213326</a>	172.30.83.31	0074.9cb5.1a75	218.85.80.138	<a href="#">uptest</a>	<a href="#">EG_RGOS 11.9(1)B11S3</a>
<input type="checkbox"/>	Offline	<a href="#">H1K90RR000172</a>	<a href="#">Ruijie</a>	192.168.3.4	00d0.f822.3574	125.77.81.217	<a href="#">RM</a>	EG_RGOS 11.9(1)B11S2.Release(06241115)
<input type="checkbox"/>	Offline	<a href="#">H1LR11F00047C</a>	<a href="#">EG2000CE</a>	172.17.186.99	5869.6cb9.0467	111.204.215.181	<a href="#">IBD_Test123</a>	EG_RGOS 11.9(1)B11S1.Release(06152822)
<input type="checkbox"/>	Offline	<a href="#">H1MQ8W8006802</a>	<a href="#">Ruijie</a>	192.168.199.219	0074.9cdf.8f1b	218.104.234.210	<a href="#">mixSceneeeee</a>	EG_3.0(1)B11P30.Release(07211401)
<input type="checkbox"/>	Offline	<a href="#">H1P600K001010</a>	<a href="#">EG3230</a>	10.0.98.60	300d.9e80.ad13	222.79.16.207	<a href="#">Secen_eg32_msw</a>	EG_RGOS 11.9(1)B11S3.Release(07202023)
<input type="checkbox"/>	Offline	<a href="#">H1P601K00241C</a>	<a href="#">EG2100-F</a>	172.26.5.48	300d.9e7e.eef5	120.35.11.195	<a href="#">Daisy</a>	EG_RGOS 11.9(1)B11S3.Release(07160218)
<input type="checkbox"/>	Offline	<a href="#">MACC276454602</a>	<a href="#">EG105G-V2</a>	220.250.41.24	001a.f94c.4f02	220.250.41.24	<a href="#">yti_123</a>	EG_3.0(1)B11P37.Release(07242115)

Page 1 of 2


10 19 in total

The **Gateway List** displays basic device information, including the online/offline status, SN, alias, management IP, MAC, public IP, network, firmware version, offline time, model and description.

The **Gateway List** automatically refreshes every minute. Click Auto Refresh:  to enable/disable the auto refresh function.

Above the list are the **Add**, **Web CLI** and **eWeb** functions. Click  to display the **Move to**, **Reboot**, and **Delete** functions. For more information, refer to **Basic Gateway Operations**.

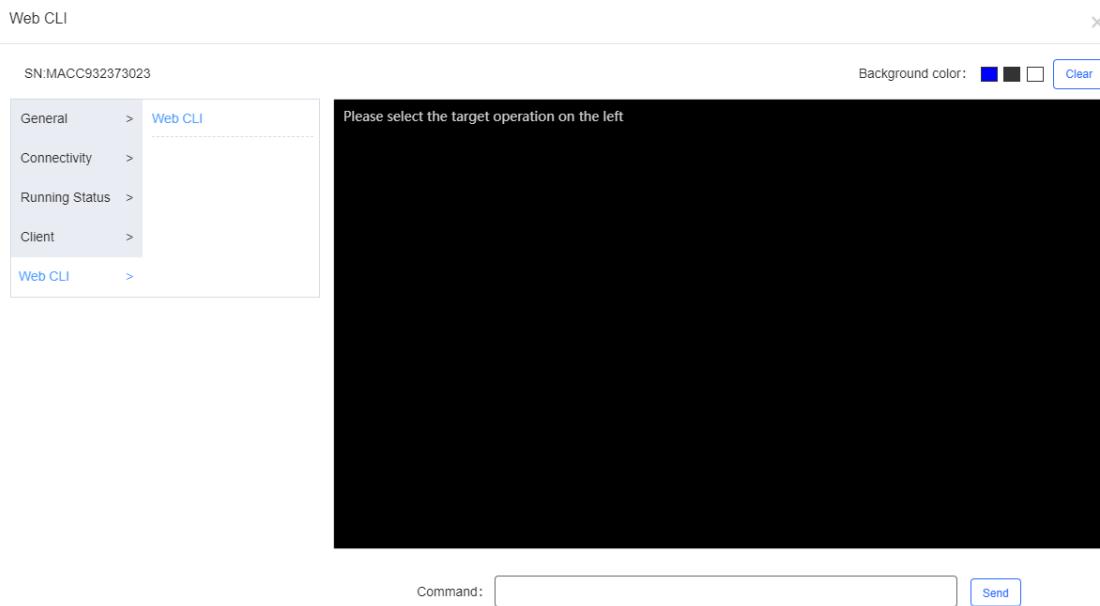
The **Search** function supports fuzzy queries based on the serial number, alias and description, and also supports queries based on online/offline status.

### 5.5.4.2 Device Details

- Web CLI



Click **Web CLI**, and the **Web CLI** page is displayed. The **Web CLI** page provides commonly-used CLI commands on the left. Click the command, or manually enter the command and click **Send**.



- eWeb

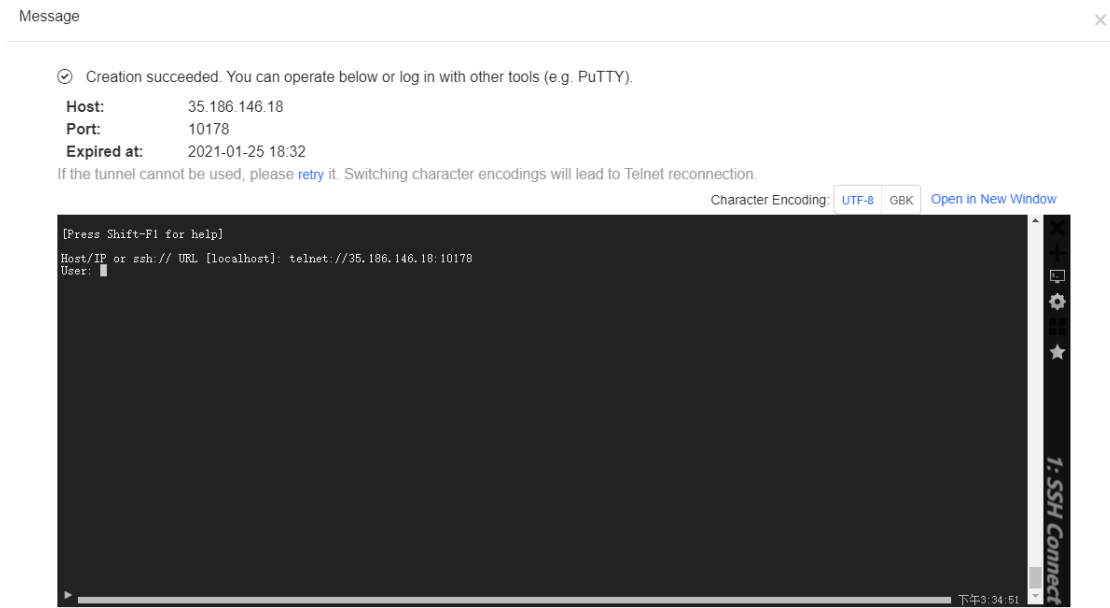


Click **eWeb** to open the eWeb system in a new window.

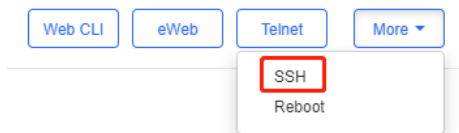
- Telnet



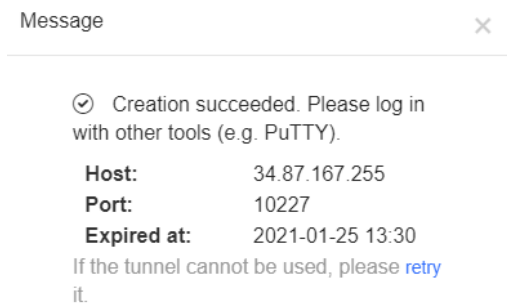
Click **Telnet**, and a window is opened to connect to the gateway by Telnet protocol. Enter CLI commands to configure the gateway.



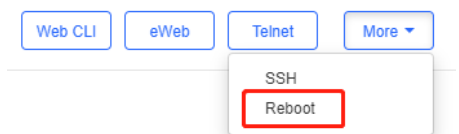
● More > SSH



Click **More > SSH**, and a window is opened to connect to the gateway by SSH protocol. Use other SSH tools to connect to the gateway.



● More > Reboot



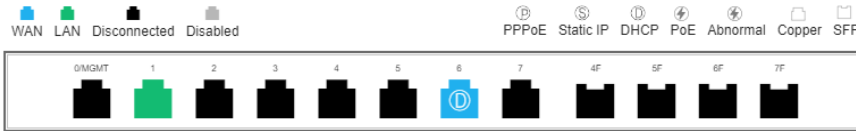
Click **More > Reboot** to reboot the gateway.

● Refresh



Click to refresh all data in the page.

● Port Panel



The port panel imitates the actual gateway panel, displaying the port type and status.

● Basic

**Basic**

Alias: EG2000G\_01

MGMT Password: \*\*\*\*\*

Model: EG2000GE

SN: MACC932373023

MAC: 0046.4c33.3333

Firmware Version: EG\_RGOS 11.9(0)B28P1

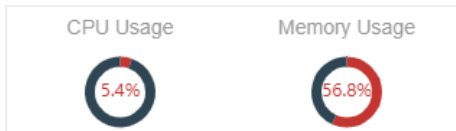
MGMT IP: 172.30.82.16

Description:

Basic information includes the alias, model, SN and other information. **Alias**, **MGMT Password** and **Description** can be edited.

● Overview > CPU & Memory Usage

| CPU & Memory Usage



CPU & memory usage are displayed here.

● Overview > Device Status

| Device Status

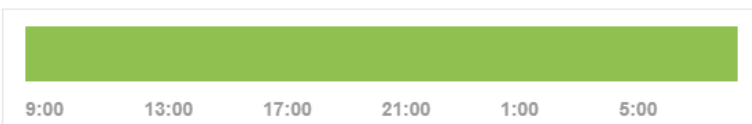
Online Status	Online
Online Clients	5
Sessions	835

Device status includes online status, online clients and sessions.

● Overview > Connectivity

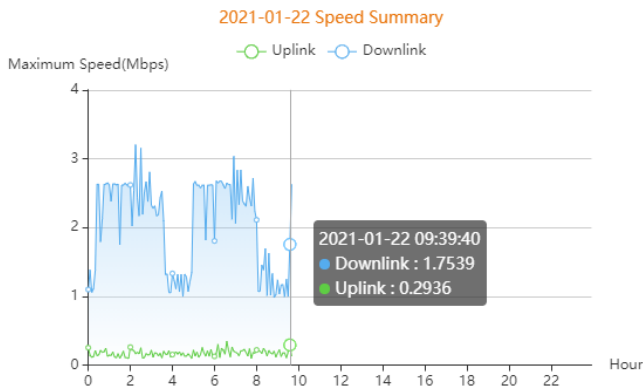
| Connectivity

Last 24 Hours Last 7 Days



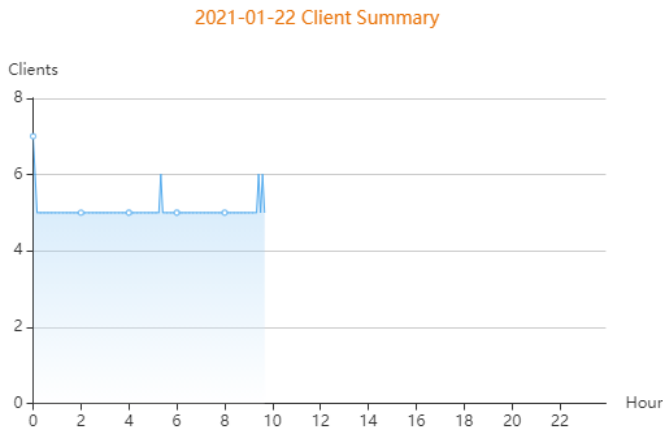
Connectivity refers to the connectivity (online status) between Gateway and Cloud Service within a period (1 day or 7 days).

- Overview > Speed Summary



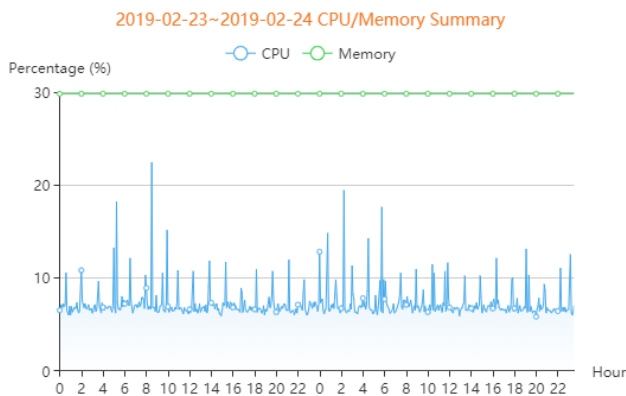
The uplink/downlink speed summary over the 24 hours is displayed.

- Overview > Client Summary



The client statistics over the 24 hours are displayed.

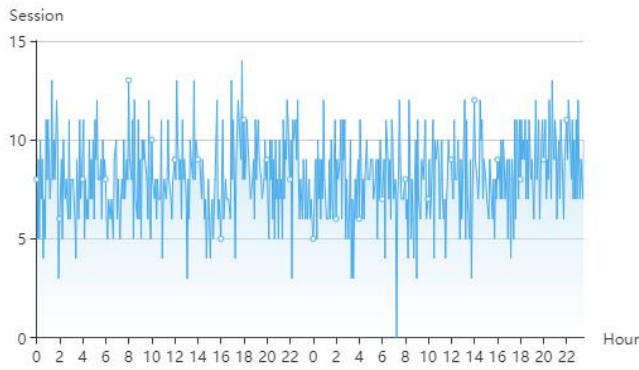
- Overview > CPU/Memory Summary



CPU/memory summary over the 24 hours are displayed.

- Overview > Session Summary

2019-02-23~2019-02-24 Session Summary



Session summary over the 24 hours is displayed.

- Overview > Top 10 Applications by Traffic

Top 10 Applications by Traffic

No.	Application	Traffic
1	HTTP-BROWSE	2.17 KB ↓ /2.81 KB ↑
2	SYN_ACK	240.00 B ↓ /456.00 B ↑
3	UDP-COMMUTE	81.00 B ↓ /75.00 B ↑
4	LOOKMYPC	25.00 B ↓ /75.00 B ↑
5	DNS	0.00 B ↓ /0.00 B ↑

Top 10 applications by downlink traffic are displayed.

- Overview > Top 10 Users by Traffic

Top 10 Users by Traffic

No.	Username	Traffic
1	10.10.12.2	1.88 KB ↓ /1.76 KB ↑
2	10.10.12.1	639.00 B ↓ /1.65 KB ↑

Top 10 users by downlink traffic are displayed.

- Overview > Device Log

Log Record

[Device Log](#) [Config Log](#)


All

Type	Updated at	Content
Online/Offline	2021-01-19 18:43:46	Device online
Online/Offline	2021-01-18 16:39:07	Device offline. The final time when it sends packets to MACC is: 2021-01-18 16:39:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2021-01-18 13:57:44	Device goes online for the first time
Online/Offline	2021-01-18 09:21:29	Device goes online for the first time
Online/Offline	2021-01-18 09:09:24	Device goes online for the first time

First Previous Page 1 of 1 Next Last

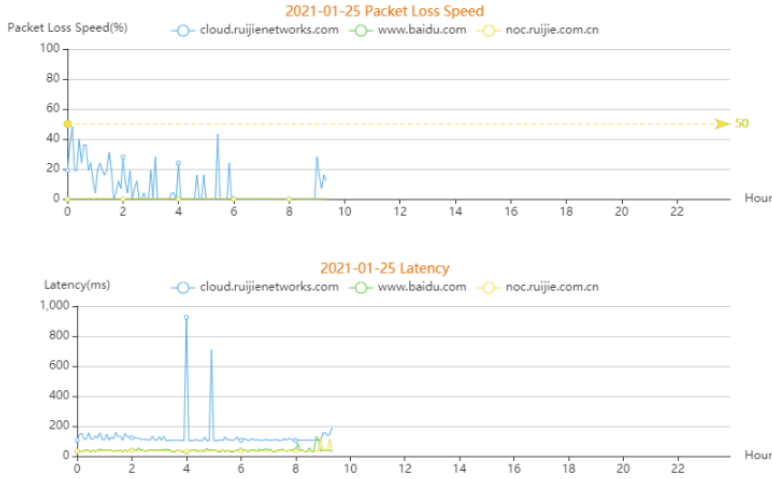
10 5 in total



Uplink & downlink rate of WAN port are displayed. This page supports queries based on day, week and month. Click  to refresh the summary.

● WAN > Port Status

Port Status(Only daily summary is supported)



Packet loss rate and latency summary are displayed. This page supports queries based on day, week and month. Click



to refresh the summary.

● LAN > Port

Port  (This port belongs to Gi0/2)

Select a LAN port to display the corresponding information of its switch port, routed port and subinterface.

● LAN > Switch Port

Switch Port  
Duplex: Full  
Speed: 1000M

Switch port information includes the switch port, including duplex and speed.

● LAN > Routed Port

Routed Port (Gi0/4)  
IP : 99.99.99.99  
Subnet Mask: 255.255.255.0  
LAN: --  
Description: djashdcsfhc9iae...

Routed port information includes the IP address, subnet mask, LAN and description.

● LAN > Subinterface

Subinterface information includes the name, IP address, and VLAN.

● Config > Configuration Backup List



Configuration Backup List

[Current](#) [Back up](#) [Download](#) [Restore](#) [Delete](#) [Compare](#)



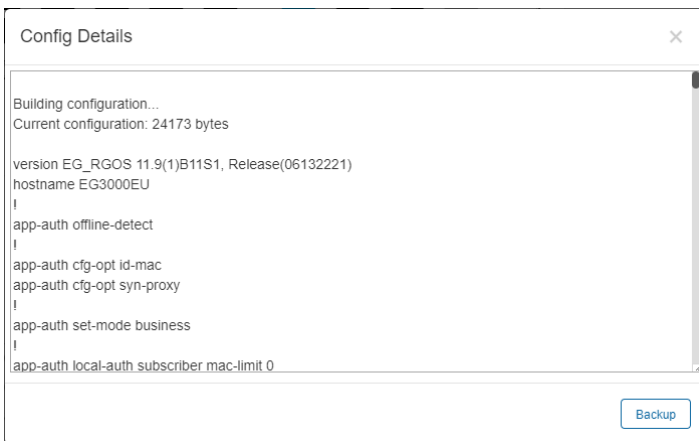
<input type="checkbox"/>	File Name	File Size	Time	Mode	MD5	Description	Action
<input type="checkbox"/>	H1M722K000263_1605084718753	12.28K	2020-11-11 16:51:57	Auto	8ffea47da55439552689c1fd60e20885	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605079949894	12.28K	2020-11-11 15:32:28	Auto	075599ea7b7fba6f85de13c1c8dacca1	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605070423662	12.28K	2020-11-11 12:53:40	Auto	7704b8df488b8d9bbd07356b61d9a3fb	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605066702598	12.28K	2020-11-11 11:51:39	Auto	6a81baeb5792ba6d0d69c67ef40d38ce	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605066252827	12.28K	2020-11-11 11:44:09	Auto	ad225d97e65acee014cc8523f7171d6d	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605064893907	12.28K	2020-11-11 11:20:00	Auto	e87f1a4b672c46b4ccb72c64f73d8922	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605063800778	13.33K	2020-11-11 11:03:20	Auto	2fc9d3e12660036a3c72e42a4467281b	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605057697512	13.33K	2020-11-11 09:21:36	Auto	c8bc60ce5837c45071d6c1332200a109	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605054742092	13.33K	2020-11-11 08:32:21	Auto	f430a02a556a449ebc8b90c6416820e4	Empty	<a href="#">Details</a>
<input type="checkbox"/>	H1M722K000263_1605053012908	13.33K	2020-11-11 08:03:32	Auto	d8a426ef640ca23fa714285a74e8f33b	Empty	<a href="#">Details</a>

[First](#) [Previous](#) Page  of 4 [Next](#) [Last](#)

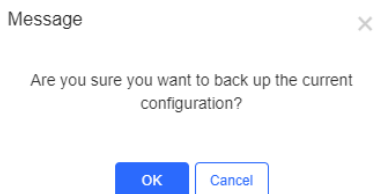
33 in total

The backup records include configuration file name, size, time, mode and MD5.

Click **Current** to display the current configuration. Click **Backup** in the **Config Details** page to back up the current configuration.



Click **Back up** and then click **OK** in the message box to back up the current configuration.



Select one record, and click **Download** to download the configuration file.

Select one record, and click **Restore** to restore the current configuration.

Select one or multiple records, and click **Delete** to delete the backup record.

Select two records, and click **Compare** to compare the differences

Compare Config ✕

<p>H1L70BT00003A_1550802034374.txt</p> <pre style="font-family: monospace; font-size: 0.9em; margin: 0;"> 674 ip nat pool nat_pool prefix-length 24 675 address interface GigabitEthernet 0/1 match interface GigabitEthernet 676 address interface GigabitEthernet 0/3.1 match interface GigabitEthernet 677 address 1.1.1.1 1.1.1.1 match interface GigabitEthernet 0/3.2 678 address interface dialer 1 match interface dialer 1 679 ! 680 ip nat inside source static tcp 10.10.100.10 port-range 22 443 interface 681 ip nat inside source list 4 interface dialer 4 682 ip nat inside source list 1 interface dialer 1 683 ip nat inside source list 2 interface dialer 2 684 ip nat application source list 1 destination udp 0.0.0.0 53 dest-char 685 ! 686 ip route 0.0.0.0 0.0.0.0 172.17.126.1 687 ip route 0.0.0.0 0.0.0.0 dialer 1 688 ip route 0.0.0.0 0.0.0.0 dialer 4 689 ip route 0.0.0.0 0.0.0.0 dialer 2 690 ! 691 line console 0 692 line vty 0 4 693 login 694 password admin123 695 ! 696 end 697</pre>	<p>H1L70BT00003A_1550872825113.txt</p> <pre style="font-family: monospace; font-size: 0.9em; margin: 0;"> 674 ip nat pool nat_pool prefix-length 24 675 address interface GigabitEthernet 0/1 match interface GigabitEthernet 676 address interface GigabitEthernet 0/3.1 match interface GigabitEthernet 677 address 1.1.1.1 1.1.1.1 match interface GigabitEthernet 0/3.2 678 address interface dialer 1 match interface dialer 1 679 ! 680 ip nat inside source static tcp 10.10.100.10 port-range 22 443 interface 681 ip nat inside source list 4 interface dialer 4 682 ip nat inside source list 1 interface dialer 1 683 ip nat inside source list 2 interface dialer 2 684 ip nat application source list 1 destination udp 0.0.0.0 53 dest-char 685 ! 686 ip route 0.0.0.0 0.0.0.0 172.17.126.1 687 ip route 0.0.0.0 0.0.0.0 dialer 1 688 ip route 0.0.0.0 0.0.0.0 dialer 4 689 ip route 0.0.0.0 0.0.0.0 dialer 2 690 ! 691 line console 0 692 line vty 0 4 693 no login 694 password admin123 695 ! 696 end 697</pre>
---	--

**Description** can be edited. Click **Details** in the **Action** column to check the backup configuration.

Description

552689c1fd60e20885
Empty
Details

● PoE > PoE List

Port	Physical Port	PoE-capable	PoE Status	Power	PD class
port0	Gi0/0	Disable	Off	0.0W	Unknown
port1	Gi0/1	Enable	Off	0.0W	Unknown
port2	LAN 2	Enable	Off	0.0W	Unknown
port3	LAN 3	Enable	Off	0.0W	Unknown
port4	LAN 4	Enable	On	4.2W	3
port5	LAN 5	Enable	Off	0.0W	Unknown
port6	LAN 6	Enable	On	4.8W	4
port7	LAN 7	Enable	On	3.3W	3

Page

of 1

8 in total


PoE configuration includes the port, physical port, PoE-capable, PoE status, power and PD class.

● Alarm

Alarm

To configure alarm settings, [click here](#). To apply the configuration to other devices, [click here](#).

Type	Rule
------	------

Threshold 

Egress Channel Width (The values are automatically retrieved. If incorrect, please modify the value manually, and the system will not automatically fetch values any more)

GI0/7	Uplink Channel Width	<input type="text" value="997"/>	M	Downlink Channel Width	<input type="text" value="100"/>	M
REMOTE_CONF_7	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M
REMOTE_CONF_8	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M

If the bandwidth exceeds  % of threshold for  times, the alarm is sent.

Port Status/Packet Loss Speed

Test:

Domain or IP Address

If the Ping test failed for  times, the alarm is sent.

If the packet loss speed exceeds  % of threshold for  times in 5 mins, the alarm is sent.

Insufficient bandwidth: When the bandwidth exceeds the specified percentage of threshold for several times, the alarm is sent. The threshold, times and percentage can be configured manually.

Ping failure: When the Ping test failed for the specified times, the alarm is sent. The times and domain/IP address can be configured manually.

High packet loss rate: When the packet loss rate exceeds the specified percentage of threshold for several times in 5 minutes, the alarm is sent. The times and threshold can be configured manually.

Besides, the corresponding alarm should be enabled in the **Alarm Settings** page. For insufficient bandwidth, the alarm types are **GW port downlink rate beyond threshold** and **GW port uplink rate beyond threshold**; for Ping failure, the alarm type is **Abnormal path on the device WAN port**; and for high packet loss rate, the alarm type is **High packet loss rate on the device WAN port**.

### Alarm Settings

Type	Status
Device offline alarm	<input checked="" type="checkbox"/>
Device goes online/offline frequently	<input checked="" type="checkbox"/>
All device offline	<input checked="" type="checkbox"/>
Channel utilization	<input checked="" type="checkbox"/>
Device configuration changes	<input checked="" type="checkbox"/>
System indicator (CPU, memory usage, etc.) beyond threshold	<input checked="" type="checkbox"/>
Switch loop	<input checked="" type="checkbox"/>
Switch port status	<input checked="" type="checkbox"/>
Switch PoE exception	<input checked="" type="checkbox"/>
Port uplink/downlink rate beyond threshold	<input checked="" type="checkbox"/>
No traffic on switch port	<input checked="" type="checkbox"/>
Switch port traffic beyond threshold	<input checked="" type="checkbox"/>
High packet loss rate on switch port	<input checked="" type="checkbox"/>
Switch port duplex mode	<input checked="" type="checkbox"/>
Switch port rate	<input checked="" type="checkbox"/>
Switch PoE is disrupted.	<input checked="" type="checkbox"/>
A new device is detected on the Reyee network.	<input checked="" type="checkbox"/>
Network loop occurs	<input checked="" type="checkbox"/>
DHCP server exception	<input checked="" type="checkbox"/>
External network link exception	<input checked="" type="checkbox"/>
Abnormal path on the device WAN port	<input checked="" type="checkbox"/>
High packet loss rate on the device WAN port	<input checked="" type="checkbox"/>
GW port uplink rate beyond threshold	<input checked="" type="checkbox"/>
GW port downlink rate beyond threshold	<input checked="" type="checkbox"/>
Gateway interface down	<input checked="" type="checkbox"/>

After changing the configuration, click **Save** below.

### Alarm

To configure alarm settings, [click here](#). To apply the configuration to other devices, [click here](#).

Type	Rule																					
Threshold	<p>Egress Channel Width (The values are automatically retrieved. If incorrect, please modify the value manually, and the system will not automatically fetch values any more)</p> <table border="1"><tr><td>Gi0/7</td><td>Uplink Channel Width</td><td><input type="text" value="10"/></td><td>M</td><td>Downlink Channel Width</td><td><input type="text" value="10"/></td><td>M</td></tr><tr><td>REMOTE_CONF_7</td><td>Uplink Channel Width</td><td><input type="text" value="1000"/></td><td>M</td><td>Downlink Channel Width</td><td><input type="text" value="1000"/></td><td>M</td></tr><tr><td>REMOTE_CONF_8</td><td>Uplink Channel Width</td><td><input type="text" value="1000"/></td><td>M</td><td>Downlink Channel Width</td><td><input type="text" value="1000"/></td><td>M</td></tr></table> <p>If the bandwidth exceeds <input type="text" value="80"/> % of threshold for <input type="text" value="5"/> times, the alarm is sent.</p>	Gi0/7	Uplink Channel Width	<input type="text" value="10"/>	M	Downlink Channel Width	<input type="text" value="10"/>	M	REMOTE_CONF_7	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M	REMOTE_CONF_8	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M
Gi0/7	Uplink Channel Width	<input type="text" value="10"/>	M	Downlink Channel Width	<input type="text" value="10"/>	M																
REMOTE_CONF_7	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M																
REMOTE_CONF_8	Uplink Channel Width	<input type="text" value="1000"/>	M	Downlink Channel Width	<input type="text" value="1000"/>	M																
Port Status/Packet Loss Speed	<p>Test: <input checked="" type="checkbox"/></p> <p>Domain or IP Address <input type="text" value="cloud.rujiennetwork.com"/> <input type="text" value="noc.ruijie.com.cn"/> <input type="text" value="www.baidu.com"/></p> <p>If the Ping test failed for <input type="text" value="3"/> times, the alarm is sent.</p> <p>If the packet loss speed exceeds <input type="text" value="50"/> % of threshold for <input type="text" value="3"/> times in 5 mins, the alarm is sent.</p>																					

When the modified bandwidth and the actual bandwidth do not match, click **Fetch Channel Width** to check the actual bandwidth which will then be set as the threshold.

Alarm

To configure alarm settings, [click here](#). To apply the configuration to other devices, [click here](#).

Type Rule

Threshold ⓘ Egress Channel Width (The values are automatically retrieved. If incorrect, please modify the value manually, and the system will not automatically fetch values any more) Fetch Channel Width ⓘ

Gi0/7	Uplink Channel Width	997	M Downlink Channel Width	100	M
REMOTE_CONF_7	Uplink Channel Width	1000	M Downlink Channel Width	1000	M
REMOTE_CONF_8	Uplink Channel Width	1000	M Downlink Channel Width	1000	M

If the bandwidth exceeds  % of threshold for  times, the alarm is sent.

---

Port Status/Packet Loss Speed Test:

Domain or IP Address

If the Ping test failed for  times, the alarm is sent.

If the packet loss speed exceeds  % of threshold for  times in 5 mins, the alarm is sent.

● Tunnel > Create Tunnel

Create Tunnel

Type:

Select the tunnel type and click **Create Tunnel**. The tunnel types include **Telnet**, **eWeb** and **SSH**.

● Tunnel > Tunnel List

Tunnel List

If the tunnel is unavailable, please re-create it or contact us for support.



Type	Host	Port	Destination Device	Destination Port	Expired at	Status	Action
Telnet	35.186.146.18	10108	Local	--	2020-11-20 03:08	Abnormal	<a href="#">Re-create</a>
eWeb	35.186.146.18	10107	Local	80	2020-11-20 03:02	Abnormal	<a href="#">Re-create</a>
Telnet	35.186.146.18	10087	Local	--	2020-11-19 22:38	Abnormal	<a href="#">Re-create</a>
eWeb	35.186.146.18	10085	Local	80	2020-11-19 22:31	Abnormal	<a href="#">Re-create</a>
Telnet	35.186.146.18	10062	Local	--	2020-11-19 16:54	Abnormal	<a href="#">Re-create</a>
eWeb	35.186.146.18	10061	Local	80	2020-11-19 16:54	Abnormal	<a href="#">Re-create</a>
Telnet	35.186.146.18	10060	Local	--	2020-11-19 16:53	Abnormal	<a href="#">Re-create</a>
eWeb	35.186.146.18	10059	Local	80	2020-11-19 16:52	Abnormal	<a href="#">Re-create</a>
eWeb	35.186.146.18	10105	Local	80	2020-11-11 13:51	Disabled	<a href="#">Re-create</a>
eWeb	35.186.146.18	10095	Local	80	2020-11-10 23:52	Disabled	<a href="#">Re-create</a>

Page  of 4

37 in total

Tunnel information includes tunnel type, host, port, destination device, expiration time and status. Click **Re-create** in the **Action** column to re-create a tunnel. Click **Telnet/SSH** in the **Action** column to open the corresponding page.

### 5.5.4.3 Basic Gateway Operations

● Add

Gateway List New firmware available for 1 devices

Add    0 Selected

Click **Add**, enter the SN, Alias and Web Password, and click **OK** to add a gateway to the network. Only one gateway can be added to a network.

Add Gateway ×

---

SN  Alias

---

Tip: Please enter the password of admin account of the eWeb system to authorize Ruijie Cloud to manage this device. You can skip this step now, and authorize the password and check the results in MONITORING > Device > Gateway.

Password

---

Unauthorized Gateway List ↻ 🔍

SN  Alias

SN	Alias	Status	Network	Added at	Action
FFFFFFFFHHHHHH		Waiting for device to go online	Lab_1	2020-08-28 19:43:10	<a href="#">Re-authorize</a> <a href="#">Delete</a>

First Previous Page 1 of 1 Next Last

1 in total

Before a gateway is authorized, it is displayed in the **Unauthorized Gateway List**. If authorization fails, you can click **Re-authorize** in the **Action** column to re-enter the Web password to re-authorize the device.

Message ×

Note: Password verification needs to interact with the device. If the device is offline, the system needs to wait for it to go online. If the password of admin account is the default password, please change the password first.

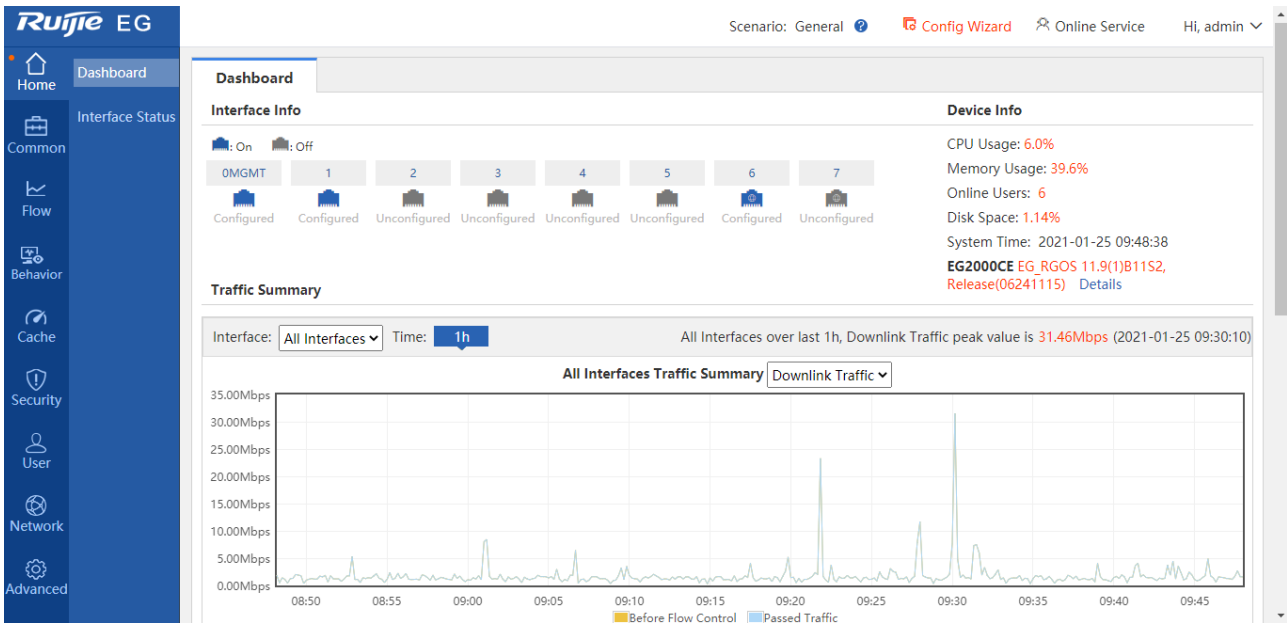
Password:

● **eWeb**

Gateway List New firmware available for 1 devices

0 Selected

Select the device to be managed by eWeb, and click **eWeb**. The system will try to connect the gateway and automatically open the eWeb page in a new window.



If a tunnel is created successfully but the eWeb page does not automatically open, the system will pop up a message. The user can manually click the link to open the page.

Tip

✔ Succeeded to create the tunnel. eWeb system is connected.

If the browser can not access the eWeb system:

1. please allow the browser to pop up windows.
2. please check if the proxy is turned on.
3. If the web configuration page does not open automatically, please [here](#) to config.

● **Move to**

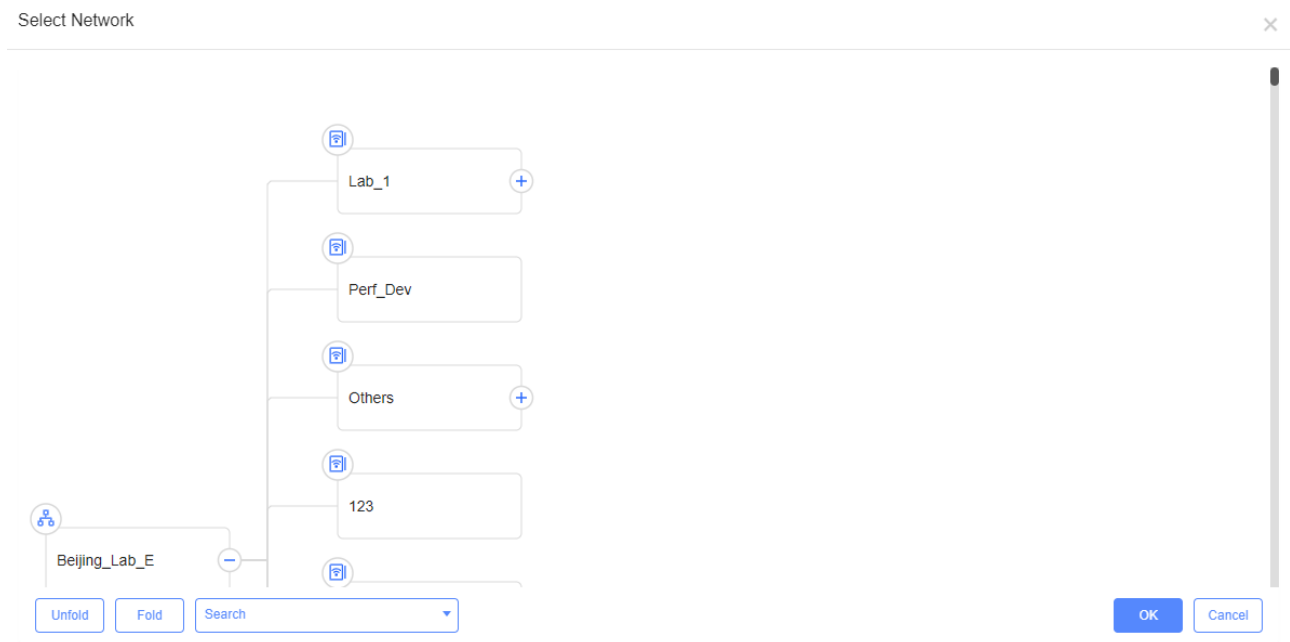
Gateway List New firmware available for 1 devices

Buttons: Add, Web CLI, eWeb, More (1 Selected)

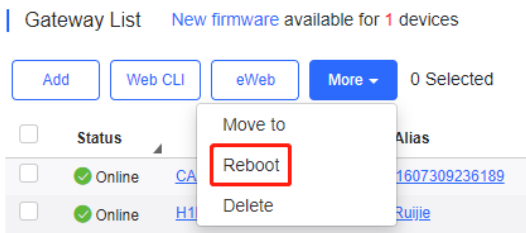
Status	Alias
Online CA	1607309236189
Online H1	Ruijie

Dropdown menu for 'More': Move to, Reboot, Delete

Select the device in the **Gateway List**, click **More > Move to**, select the new network and click **OK**. Only one gateway can be moved at a time.

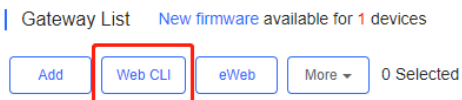


● **Reboot**



Select the device in the **Gateway List**, click **More > Reboot** and click **OK**.

● **Web CLI**



Select the device to be managed by CLI command, click **Web CLI**. The **Web CLI** page provides commonly-used CLI commands on the left. Click the command, or manually enter the command and click **Send**. Only one gateway can be configured at a time.



Web CLI ×

SN:H1MSC0M000172 Background color:    Clear

General > [Web CLI](#)

Connectivity >

Running Status >

Client >

[Web CLI](#) >

Please select the target operation on the left

Command:  Send

● **Delete**

Gateway List New firmware available for 1 devices

Add Web CLI eWeb More ▾ 0 Selected

<input type="checkbox"/>	Status	CA	Alias
<input type="checkbox"/>	Online	CA	1607309236189
<input type="checkbox"/>	Online	H1	Ruijie

Move to

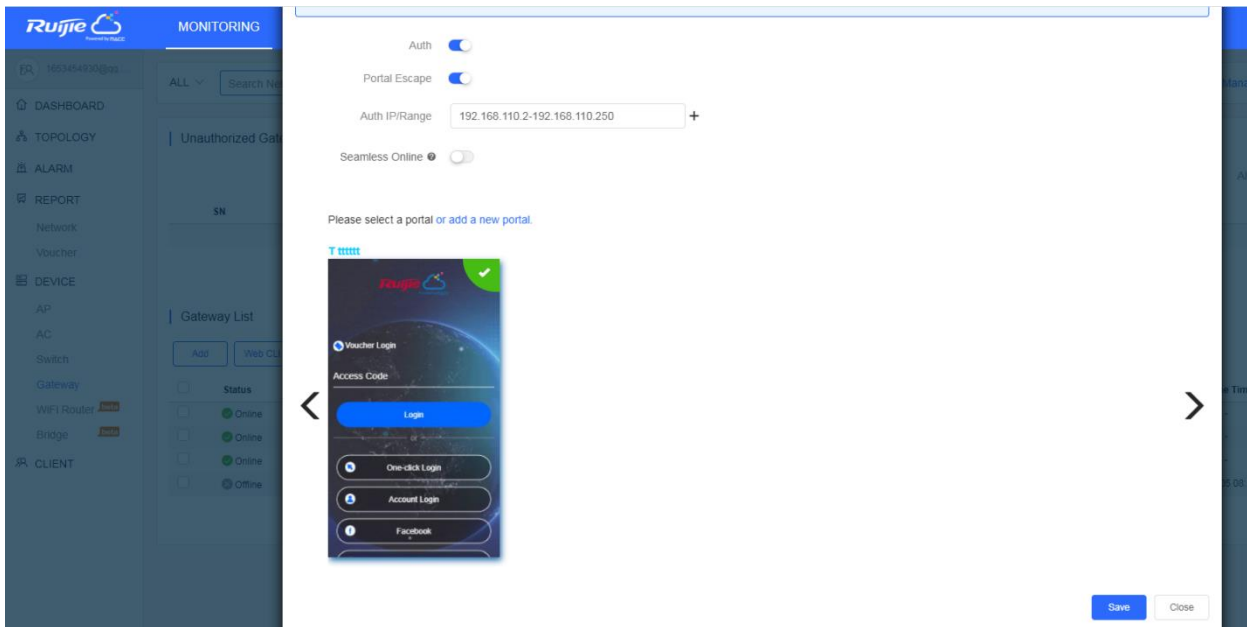
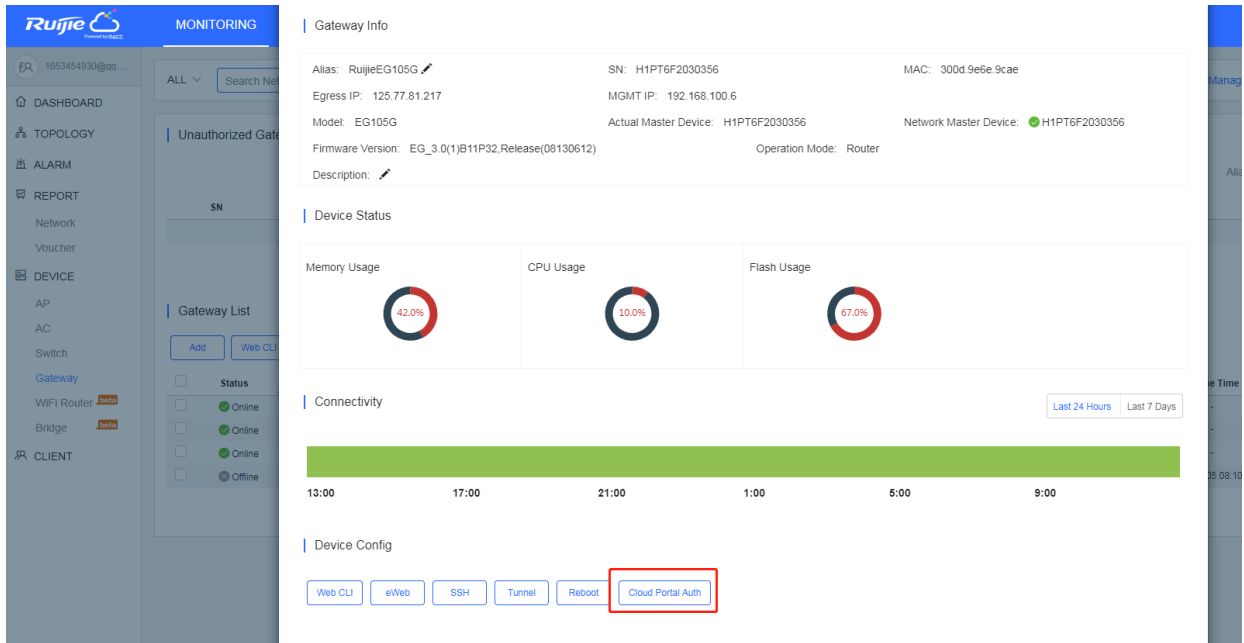
Reboot

Delete

Select the device in the **Gateway List**, click **More > Delete** and click **OK**.

### 5.5.4.4 Cloud Portal Auth

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



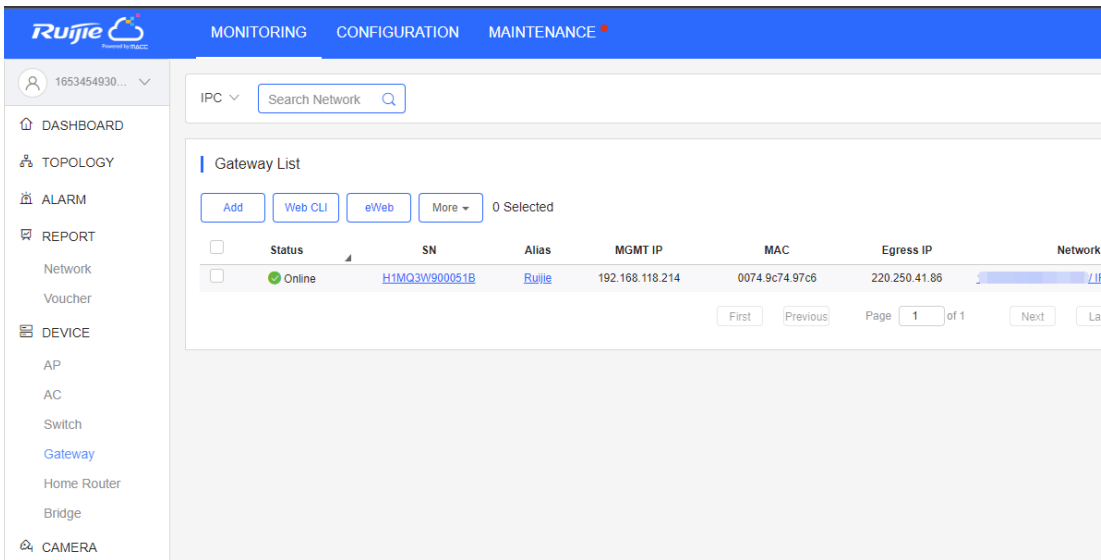
### 5.5.4.5 IPTV

When ISP link provides 2-3 VLANs for Internet, IPTV and IP phone, you can configure the VLAN in **Device Details** > **IPTV** for different services (only supported on Reyee device with the R55 or a higher version).

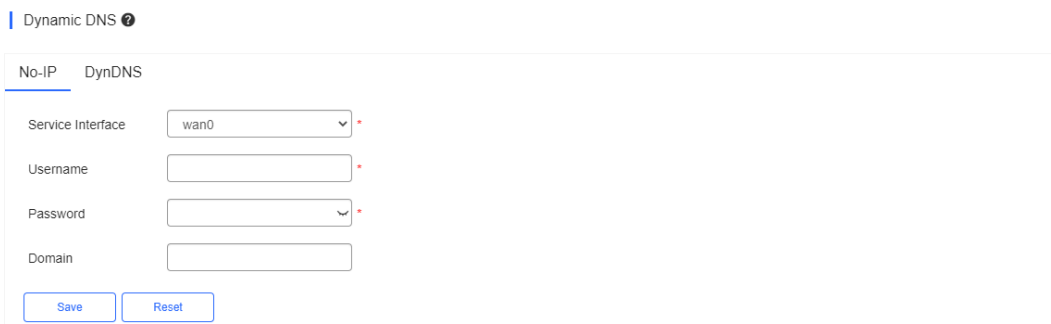


### 5.5.4.6 DynDNS Configuration

You can connect to a device through a customized domain name. This function is supported on partial models of gateways and home routers.



Click the **SN** of device to open the **Device Details** page. If the device supports DynDNS, you can configure No-IP or DynDNS on the **Dynamic DNS** tab according to your requirements. Please note that the domain is required when configuring DynDNS.



After configuration, please wait until the connection succeeds. The real-time progress is displayed in the **Connection Status**.

No-IP DynDNS

Service Interface: wan0

Username: freelancedxb

Password: .....

Domain: ruijiedemo.dyndns.org

Connection Status: Connecting...

Buttons: Save, Reset

Dynamic DNS ?

No-IP DynDNS

Service Interface: wan0

Username: freelancedxb

Password: .....

Domain: ruijiedemo.dyndns.org

Connection Status: Connection succeeded.

Buttons: Save, Reset

### 5.5.5 Home Router

#### 5.5.5.1 Home Router List

Home Router List (Click "SN" to view details) Auto Refresh:

Buttons: Add, Web CLI, Upgrade, More, 0 Selected Search: SN, alias and description

Radio buttons: Basic (selected), RF, Model

Online Status	SN	Sync	Alias	MAC	Management IP	Egress IP	Clients	Network	Firmware Version	Last Offline	Model
Online	G1PD3QN00073C	Synced	Ruijie	300d.9e48.8139	192.168.2.12	220.250.41.86	-	EW1200Ge	ReyeeOS 1.55.1901 <a href="#">Latest</a>	2021-07-05 09:46:07	EW1200G-PRO
Online	G1PT3QH000032	Synced	ewebnotice1625465440037	64ee.b796.cae6	192.168.110.78	220.250.41.86	-	MaCc1625464971095	ReyeeOS 1.55.1829 <a href="#">Latest</a>	-	EW1200
Offline	G1QH4VJ000156	Synced	EW1800	ecb9.7012.8ed2	192.168.2.9	220.250.41.86	-	EG105GW_Auto	ReyeeOS 1.62.1830 <a href="#">Latest</a>	2021-07-01 11:02:07	EW1800GX-PRO
Offline	MACC8023000002	Synced	EW1200GPRO	00d0.f880.5690	192.168.2.2	120.35.11.195	-	小炸蛋1200	ReyeeOS 1.55.1817 <a href="#">Latest</a>	2021-06-25 14:21:07	EW1200G-PRO
Never Online	123456780Q5X5	Waiting	Add					noeg			
Never Online	G1PD3QN000628	Waiting	112					ew111			

The **Home Router List** displays basic device information, including the online/offline status, SN, MAC, alias, management IP & public IP, offline time, network, model, firmware version and description.

The **Home Router List** automatically refreshes every minute. Click Auto Refresh:  to enable/disable the auto refresh function.

Above the list is the **Add** function. Click More to display the **Move to**, **Delete**, **Export**, and **Reboot** functions. For more information, refer to **Basic Router Operations**.

The **Search** function supports fuzzy queries based on the serial number, alias and description, and also supports queries based on online/offline status.

Click the record in the **Sync** column to open the **Config Status** page. On this page, you can deliver one or all configurations.

Config Status(G1KQB7F01872A)

To synchronize all configurations to the AP, please click Manually Deliver. If a configuration fails to be synchronized, please click in the Action column to deliver it again.

Manually Deliver Refresh

Config	Status	Action
Whitelist Settings(Free Uri)	Synced	
Device Name Settings	Synced	
Wireless Signal Settings	Synced	
Bluetooth Settings	Synced	
CWMP Interval Settings	Synced	
NAT Address Pool Settings	Synced	
SSID Rate Limit Settings	Synced	
5G-Prior Access	Synced	
Wireless Security Settings	Synced	
Wireless Location Settings	Synced	
Country Code and Bandwidth Settings	Synced	
Access Control Settings	Synced	
Global Radio Settings	Synced	
Diagnosis Logging Settings	Synced	
Log Settings	Synced	
RF Parameter Settings	Synced	
Custom CLI Settings	Synced	

The number of devices which have available firmware for upgrade is displayed on the upper-left corner of the **AP List** page. Click **New Firmware** to display the **New Firmware List**. Then click **Go To Upgrade** to enter the **MAINTENANCE > UPGRADE > Upgrade** page.

Top Versions

- SWITCH\_3.0(1)B11P20,...
- SWITCH\_3.0(1)B11P20,...
- AP\_3.0(1)B11P30,Relea...
- EG\_3.0(1)B11P30,Relea...
- other

Firmware Version List

Firmware Version

Firmware Version	Devices
UNKNOWN	12
EG_3.0(1)B11P30,Release(07182301)	2
EW_3.0(1)B11P30,Release(07180823)	2
SWITCH_3.0(1)B11P20,Release(07170803)	2
AP_3.0(1)B11P30,Release(07182006)	1

Previous Page 1 of 3 Next

Device List

[Upgrade](#) [Upgrade All](#) 0 Selected

SN, Alias, Description  Advanced Search

Key  Model  Current Version  [Reset](#) [Search](#)

Status	SN	Network	Alias	Model	Hardware Version	Current Version	Recommended Version	Description	Action
Online	H1NW5JK071016	ESW	EWR	EG105GW	1.00	EG_3.0(1)B11P30,Release(07182301)	EG_3.0(1)B11P26,Release(07172304)		<a href="#">Upgrade</a>

First Previous Page 1 of 1 Next Last 10 1 in total

For more information, refer to **Device Details**.

### 5.5.5.2 Device Details

Click the serial number in the device list to open the details page for a single device. The page displays detailed device information, including basic information, performance data, speed data, client data, online/offline status, and device logs.

Router information is described as:

- Router Info

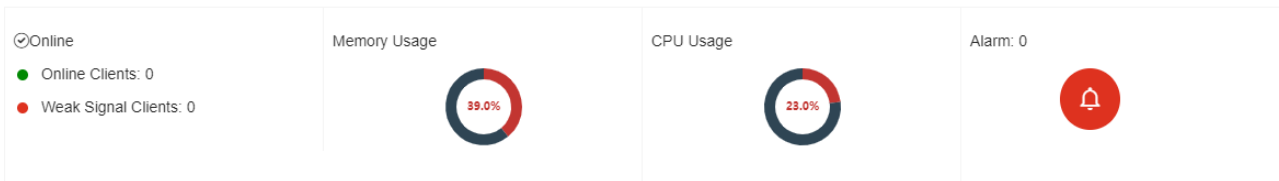
Router Info

Alias: EHR-Route	SN: G1PD3QN000628	MAC: 00d0.f880.5680
Management IP: 10.0.98.4	Type: EW1200G-PRO	Sync: Synchronized
Hardware Version: 1.00	Actual Master Device: G1PD3QN000628	
Firmware Version: EW_3.0(1)B11P30,Release(07180823)		
Description: EHR-Route-1		
SSID Password: *****		
SSID: @@@@-EHR-Route		

The basic information includes serial number, MAC address, management IP address, device model, configuration status, firmware version, hardware version, alias, and description.

Status

Status



The performance data includes the router connection status, online client count, CPU usage, and memory usage.

Connectivity

Connectivity

Last 24 Hours Last 7 days

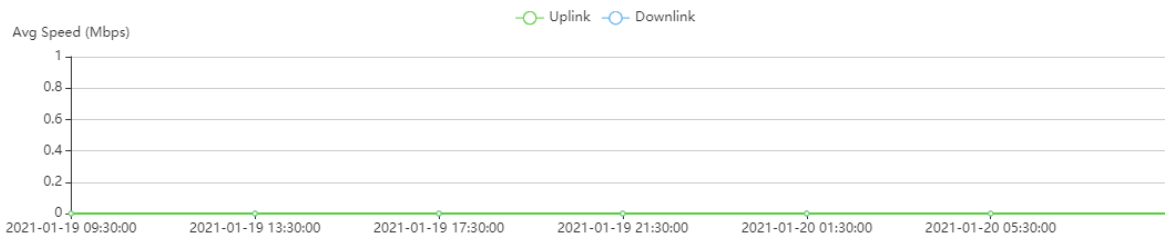


Router connectivity refers to the connectivity (online status) between router and Cloud Service within a period (1 day or 7 days).

Speed Summary

Speed Summary

Last 24 Hours Last 7 days



You can choose to view the router speed statistics in the last 24 hours or the last 1 week.

Device Log

Log Record

Device Log Config Log

All QSearch

Type	Updated at	Content
Online/Offline	2020-12-16 11:51:07	Device offline. The final time when it sends packets to MACC is: 2020-12-16 11:51:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-15 20:46:19	Device online
Online/Offline	2020-12-15 10:40:07	Device offline. The final time when it sends packets to MACC is: 2020-12-15 10:40:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-15 10:30:13	Device goes online for the first time
Online/Offline	2020-12-15 07:59:42	Device online
Online/Offline	2020-12-15 07:58:07	Device offline. The final time when it sends packets to MACC is: 2020-12-15 07:58:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-15 07:41:09	Device online
Online/Offline	2020-12-15 07:37:07	Device offline. The final time when it sends packets to MACC is: 2020-12-15 07:37:07(It is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-15 07:08:46	Device online
Online/Offline	2020-12-15 07:07:07	Device offline. The final time when it sends packets to MACC is: 2020-12-15 07:07:07(It is an estimated value. The deviation is 1 minute.)

First Previous Page 1 of 4 Next Last 10 33 in total

The device log records the historical operations, including online/offline, restart and upgrade records, and supports queries based on the log type and period.

### 5.5.5.3 Basic Router Operations

- Add

Home Router List (Click "SN" to view details)


Add Web CLI Upgrade More 0 Selected

Select the network, and click **Add**. Both batch import and manual add are supported.

Click **Download Template** to download the template, enter router information, and click **File** to import the template.

Add

Download and fill in the template. Up to 500 records can be imported



File Download Template

Add a Device Close

Click **Add a Device**, enter SN and alias of the AP, and click **OK**. Click **+** to add multiple APs.

The 'Add' dialog box contains three rows for adding devices. Each row has a '1 SN' field, an 'Alias' field, and a trash icon. The third row also includes a plus sign icon. At the bottom, there are 'Batch Import', 'OK', and 'Close' buttons.

● **Move to**

Home Router List (Click "SN" to view details)

The interface shows a toolbar with 'Add', 'Web CLI', 'Upgrade', and 'More' buttons. Below are radio buttons for 'Basic', 'RF', and 'Model'. A table lists devices with columns for 'Online Status' and device names like 'G1PD30'. A 'More' dropdown menu is open, showing options: 'Move to', 'Delete', 'Export', and 'Reboot'. The 'Move to' option is highlighted with a red box.

Select one or multiple devices in the **Home Router List**, click **More > Move to**, select the new network and click **OK**.

The 'Select Network' dialog box displays a tree structure of networks. The root node is 'EAP\_EGW', which branches into 'EGW\_NBS\_EAP' and 'EGW\_ESW\_EA...'. 'EGW\_NBS\_EAP' further branches into 'TEST' and 'test2'. A search bar at the bottom contains the text 'jok'. 'OK' and 'Cancel' buttons are at the bottom right.

● **Delete**

Home Router List (Click "SN" to view details)

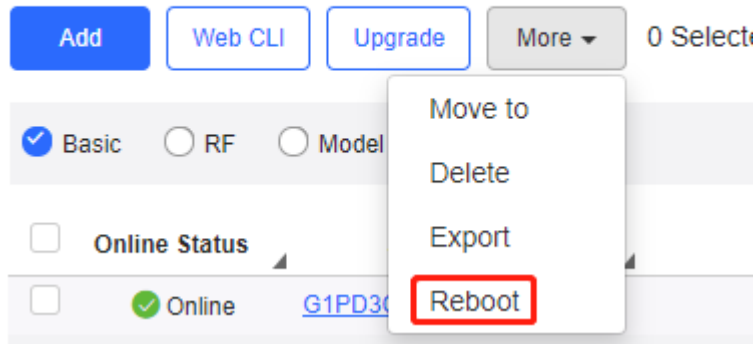
The interface is identical to the previous screenshot, but the 'Delete' option in the 'More' dropdown menu is highlighted with a red box.



Select one or multiple devices in the **Home Router List**, click **More > Delete** and click **OK**.

● **Reboot**

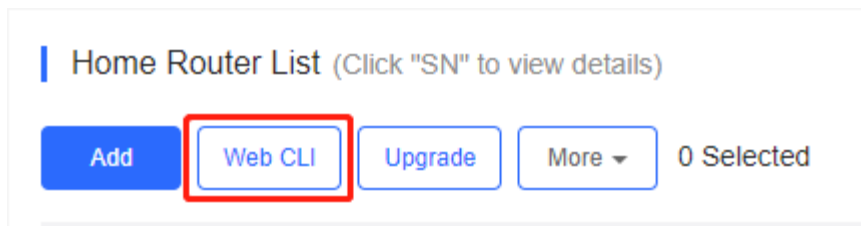
**Home Router List** (Click "SN" to view details)



Select one or multiple devices in the **WiFi Router List**, and click **Reboot**.

### 5.5.5.4 Web CLI

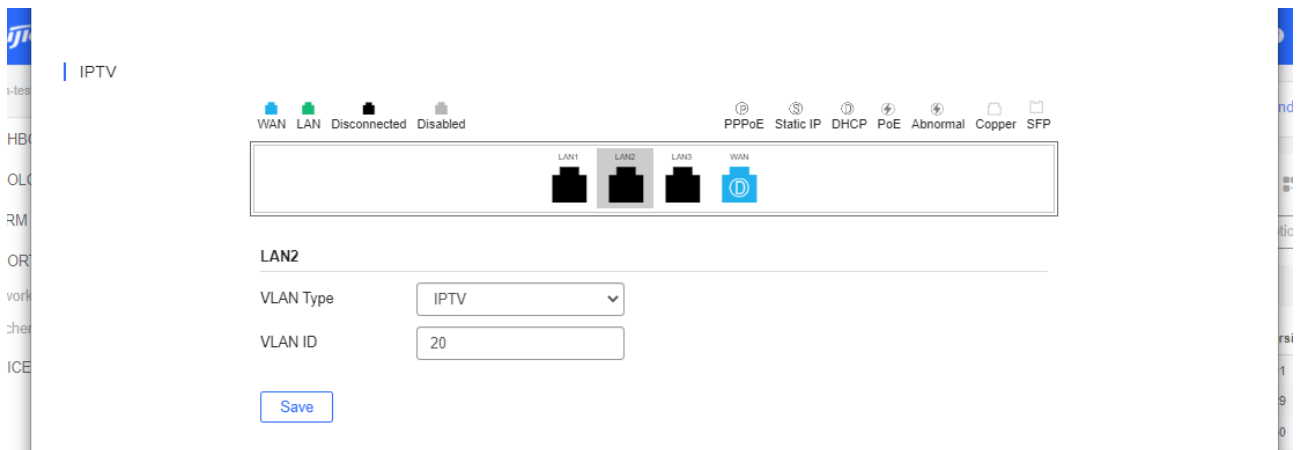
Select one or multiple devices in the **Home Router List**, and click **Web CLI**. The **Web CLI** dialog box is displayed, and device information can be queried via the menus in this dialog box. The menus vary with the products.



In the command entry box, the **TAB** key and question mark (?) both can complete a command.

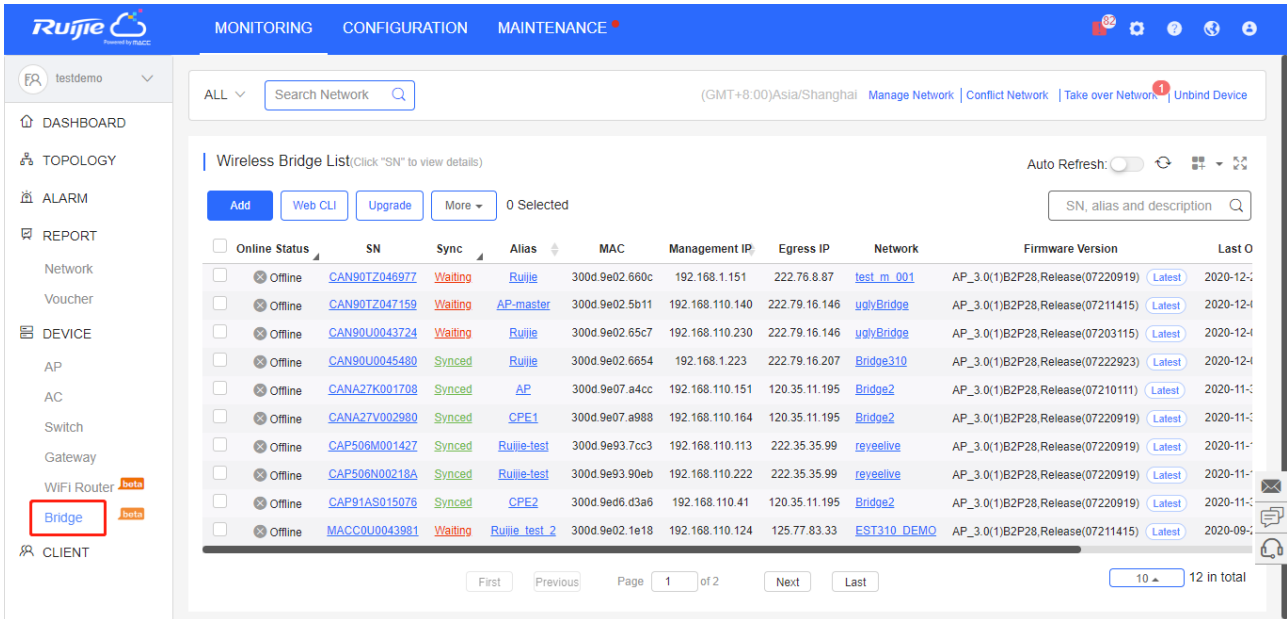
### 5.5.5.5 IPTV

When ISP link provides 2-3 VLANs for Internet, IPTV and IP phone, you can configure the VLAN in **Device Details > IPTV** for different services (only supported on Reyee device with the R55 or a higher version).



## 5.5.6 Wireless Bridge

### 5.5.6.1 Wireless Bridge List



The **Wireless Bridge List** displays basic device information, including the online/offline status, SN, MAC, alias, management IP & public IP, offline time, network, model, firmware version and description.

The **Wireless Bridge List** automatically refreshes every minute. Click **Auto Refresh:**  to enable/disable the auto refresh function.

Above the list is the **Add** function. Click **More** to display the **Move to**, **Delete**, **Export**, and **Reboot** functions. For more information, refer to **Basic Bridge Operations**.

The **Search** function supports fuzzy queries based on the serial number, alias and description, and also supports queries based on online/offline status.

### 5.5.6.2 Device Details

Click the serial number in the device list to open the details page for a single device. The page displays detailed device information, including basic information, connectivity, diagnosis, neighbor devices, and device logs.

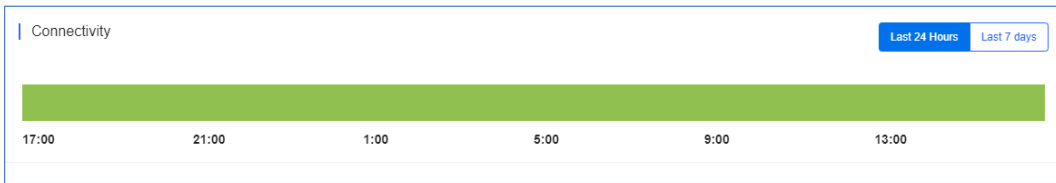
- Device Information

| Device Information

Alias: Ruijie	SN: CAN90T2046977	MAC: 300d.9e02.660c
Management IP: 192.168.1.151	Type: EST310	Sync: Synchronizing
Hardware Version: 1.00		
Firmware Version: AP_3.0(1)B2P28,Release(07220919)		
Description:		

The basic information includes serial number, MAC address, management IP address, device model, synchronization status, firmware version, hardware version, alias, and description.

- Connectivity



Refers to the connectivity (online status) between wireless bridge and Cloud within a period (1 day or 7 days).

- Neighbor Device List

The interface shows a table with the following columns: Network, Account, Discovered at, and Action. The table currently contains no data, indicated by 'No Data' in the center. A 'Neighbor Discovery' button and a refresh icon are located at the top left and right respectively.

You can discover other wireless bridges in the same LAN.

- Device Log

The interface shows a table with columns: Type, Updated at, and Content. It includes a search bar, a refresh button, and a 'Device Log' button highlighted with a red box. The table contains three entries:

Type	Updated at	Content
Online/Offline	2020-12-24 09:34:07	Device offline. The final time when it sends packets to MACC is: 2020-12-24 09:34:07(it is an estimated value. The deviation is 1 minute.)
Online/Offline	2020-12-24 09:27:23	Device goes online for the first time
Online/Offline	2020-12-21 06:51:03	Device online

Navigation controls at the bottom include 'First', 'Previous', 'Page 1 of 1', 'Next', 'Last', and a '10' items per page selector with '3 in total' items.

The device log records the historical operations, including online/offline, restart and upgrade records, and supports queries based on the log type and period.

### 5.5.6.3 Basic Bridge Operations

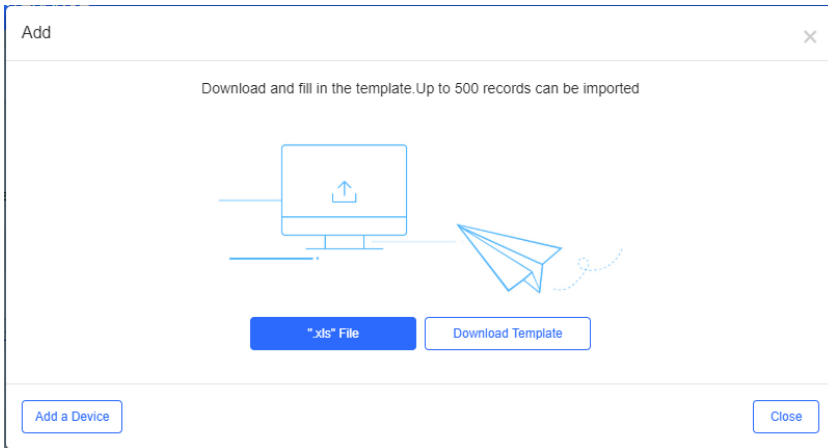
- Add (Recommend to use Ruijie Cloud App)

The interface shows a table with columns: Online Status, SN, Sync, Alias, and MAC. It includes an 'Add' button, 'Web CLI', 'Upgrade', and 'More' options, and a '0 Selected' indicator. The table contains two entries:

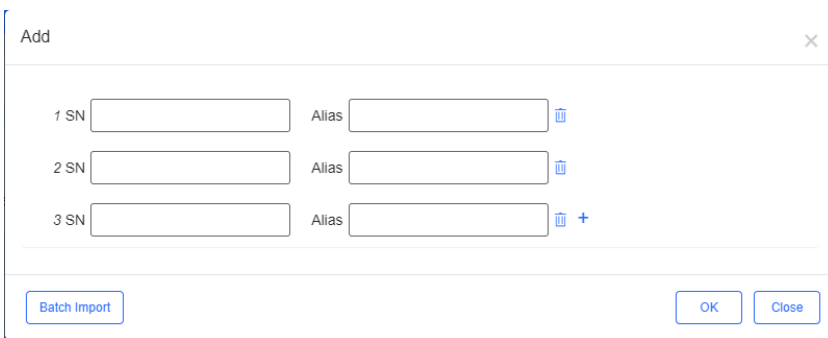
Online Status	SN	Sync	Alias	MAC
<input type="checkbox"/> Online	<a href="#">MACC0T2047281</a>	Synced	Ruijie	300d.9e02.63ed
<input type="checkbox"/> Online	<a href="#">MACC0U0043981</a>	Synced	Ruijie	300d.9e02.1e18

Select the network, and click **Add**. Both batch import and manual add are supported.

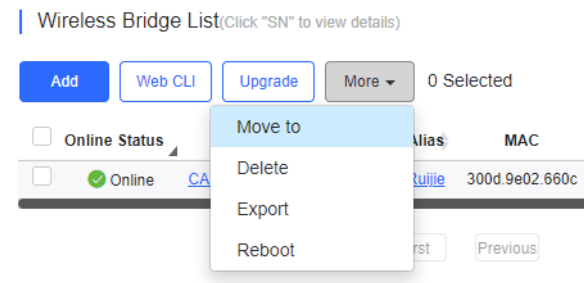
Click **Download Template** to download the template, enter wireless bridge information, and click **' .xls' File** to import the template.



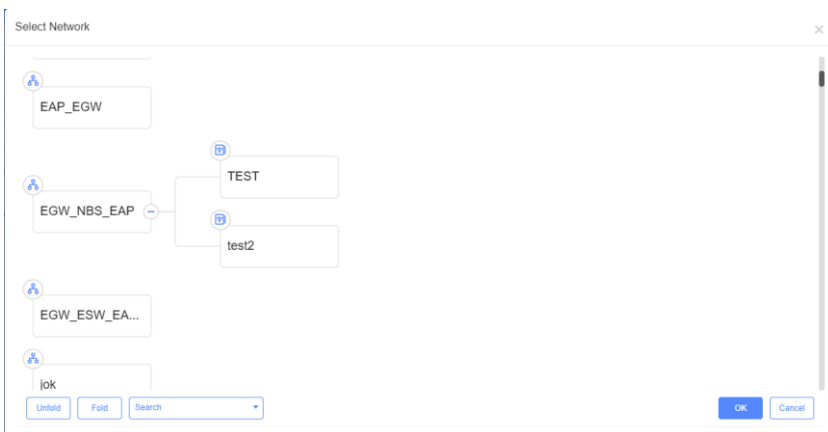
Click **Add a Device**, enter SN and alias of the wireless bridge, and click **OK**. Click **+** to add multiple APs.



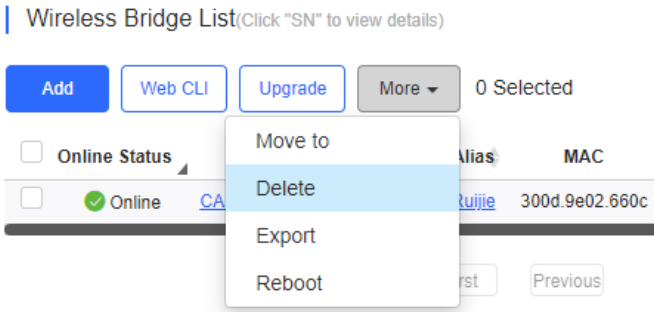
● **Move to**



Select one or multiple devices in the **Wireless Bridge List**, click **More > Move to**, select the new network and click **OK**.

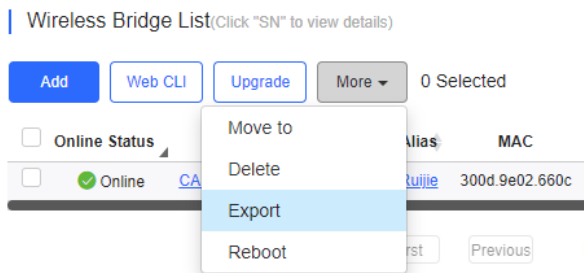


● **Delete**



Select one or multiple devices in the **Wireless Bridge List**, click **More > Delete** and click **OK**.

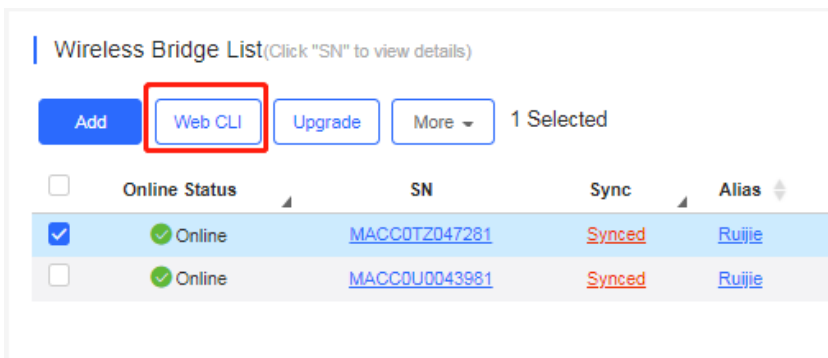
- **Export**



Click **More > Export** to export all wireless bridges, or select one or multiple devices to export.

### 5.5.6.4 Web CLI

Select one or multiple devices in the **Wireless Bridge List**, and click **Web CLI**. The **Web CLI** dialog box is displayed, and device information can be queried via the menus in this dialog box. The menus vary with the products.

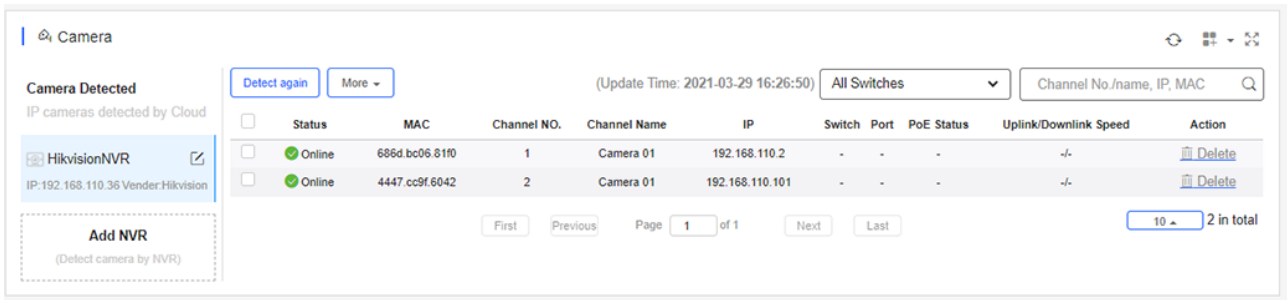


## 5.6 CAMERA

### 5.6.1 Cameras

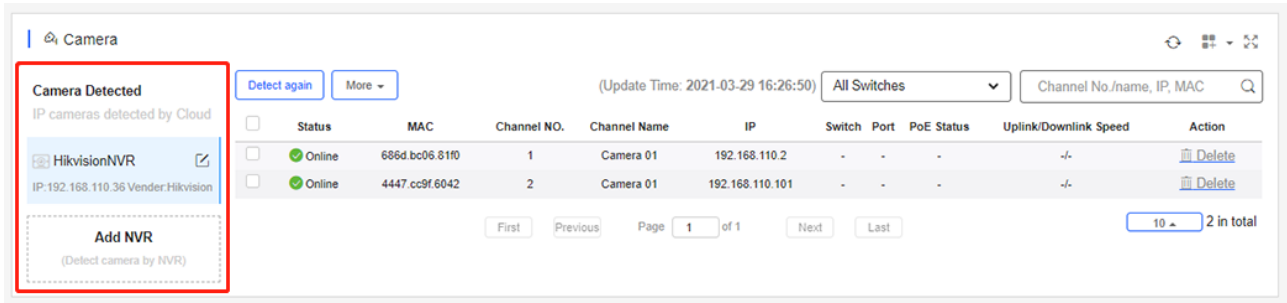
- **Camera List**

The **Camera List** displays the camera information, and you can filter cameras based on switch.

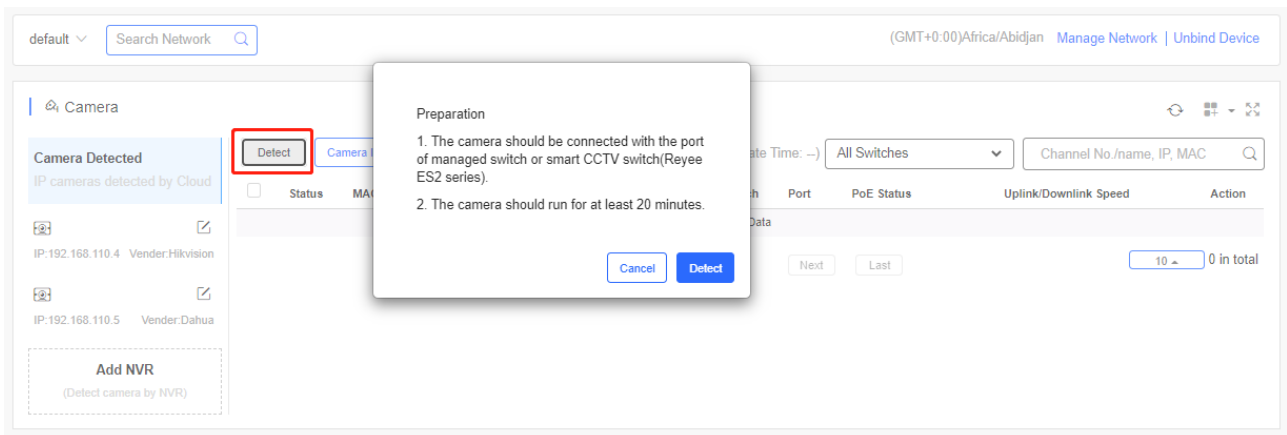


● Detect

Cameras can be detected by Ruijie Cloud or NVR.

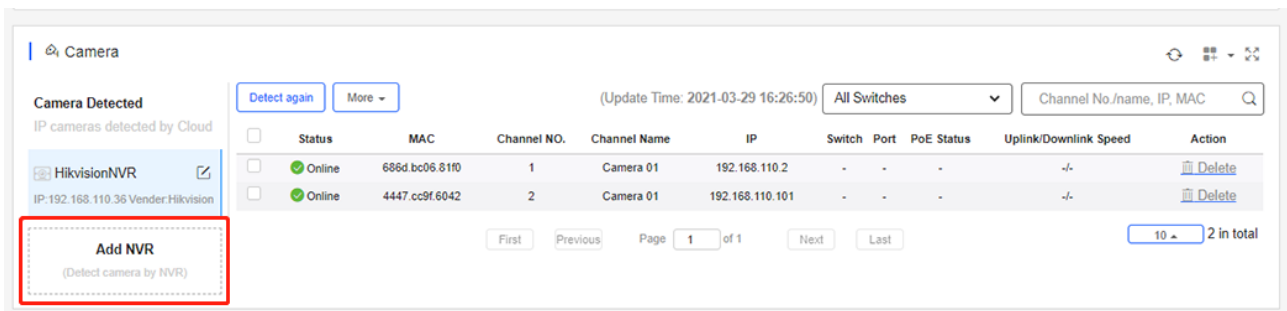


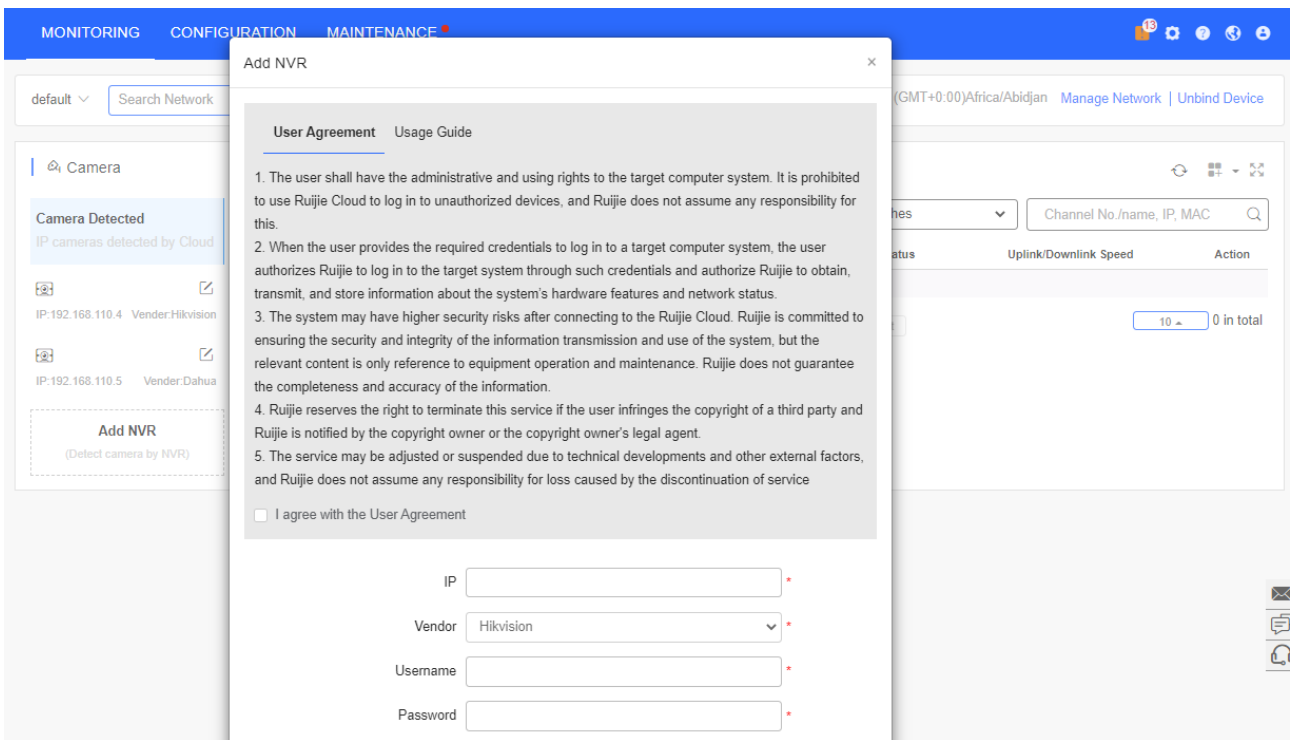
Click **Detect** to start detection.



● Add NVR

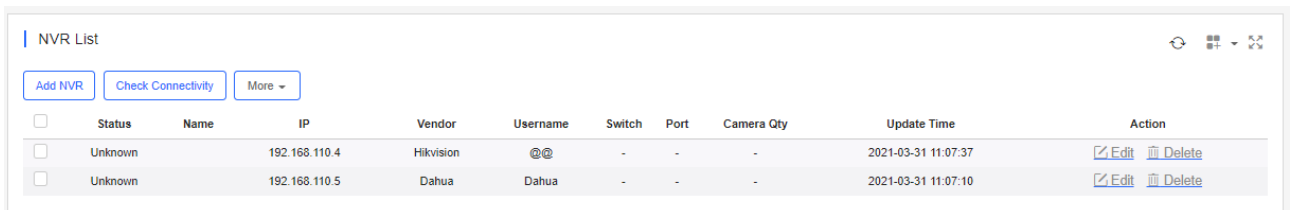
Click **Add NVR** to add the NVR.





### 5.6.2 NVR

The **NVR List** displays the NVR information.



Click **Check Connectivity** to view the connection status of device.



### 5.7 CLIENT

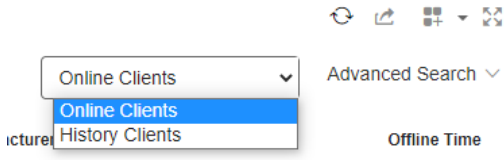
Select **MONITORING > CLIENT** to open the **Client** page.



### 5.7.1 Client List

The **Client List** displays the information about online clients and historical clients of the current network.

You can switch between **Online Clients** and **History Clients**. The client information includes basic information, AP Location, band, and online time.



Click **MAC** in **Client List**, and the **Client Details** page is displayed.

### 5.7.2 Client Details

#### ● Client Info

##### | Client Info

Alias :	Status : Online	MAC : 3045.9609.0557
Online Time : 2019-04-16 14:05:09	Offline Time : -	Uptime : 0h 8m 26s
IP : 172.17.125.140	Terminal : Phone	OS : Android
Manufacturer : HUAWEI TECHNOLOGIES CO.,LTD	AP SN : G1KD9HH02861B	AP Alias : 520w2
SSID : Nature_cloud_as		

**Client Info** includes alias, online status, MAC etc.

#### ● Performance

##### | Experience



Performance displays the traffic summary etc.



● Online/Offline Record

Online/Offline Record



2021-01-21

AP SN	AP Alias	IP	SSID	RSSI	Band	Traffic(MB)	Online Time	Offline Time	Updated at
-	-	192.168.1.8	ppsk_test_007	-64	5G	4.573	2021-01-21 15:39:45	-	-
G1PQ5AM065853	Ruijie	192.168.1.12	ppsk_test	-73	5G	69.393	2021-01-21 15:36:11	2021-01-21 15:36:54	2021-01-21 15:38:06
G1PQ5AM065853	Ruijie	0.0.0.0	@ruijie-eg3250	-58	5G	0.010	2021-01-21 15:24:09	2021-01-21 15:24:11	2021-01-21 15:28:02

First Previous Page 1 of 1 Next Last

10 3 in total

Online/Offline Record displays AP SN, AP alias, IP, SSID etc.

● Roaming Record

Roaming Record



Roam-in AP SN	Roam-in AP MAC	Roam-in AP Group	Roam-in AP Location	Source AP SN	Source AP MAC	Source AP Group	Source AP Location	Roam
G1KD84Y017646	5869.6c7a.5dd0	San_Jose	Outdoor RG-AP630(CD)	G1KD83S04970C	5869.6c79.44f7	San_Jose	Indoor AP520-I	G1KD
G1KD83S04970C	5869.6c79.44f7	San_Jose	Indoor AP520-I	G1KD14G00221B	5869.6c5b.5071	San_Jose	Indoor AP520(BT)	G1KD
G1KD14G00221B	5869.6c5b.5071	San_Jose	Indoor AP520(BT)	G1KD83S04970C	5869.6c79.44f7	San_Jose	Indoor AP520-I	G1KD
G1KD90N003414	5869.6caa.72e2	San_Jose	AP630(IODA)	G1KDA0T003926	5869.6cb9.7926	San_Jose	Indoor AP740-I	G1KD
G1KD90N003414	5869.6caa.72e2	San_Jose	AP630(IODA)	G1KDA0T003926	5869.6cb9.7926	San_Jose	Indoor AP740-I	G1KD
G1KDA0T003926	5869.6cb9.7926	San_Jose	Indoor AP740-I	G1KD84Y017646	5869.6c7a.5dd0	San_Jose	Outdoor RG-AP630(CD)	G1KD
G1KD83S04970C	5869.6c79.44f7	San_Jose	Indoor AP520-I	G1KDAHJ052008	5869.6cc1.96d0	San_Jose	indoor AP130(W2)	G1KD

First Previous Page 1 of 1 Next Last

10 7 in total

Roaming Record displays roam-in AP, source AP, SSID etc.

## 6 Configuration

This module enables you to configure the following items:

- PROJECT
- WIRELESS
- AUTHENTICATION
- ADVANCD

### 6.1 PROJECT

#### 6.1.1 Project Management

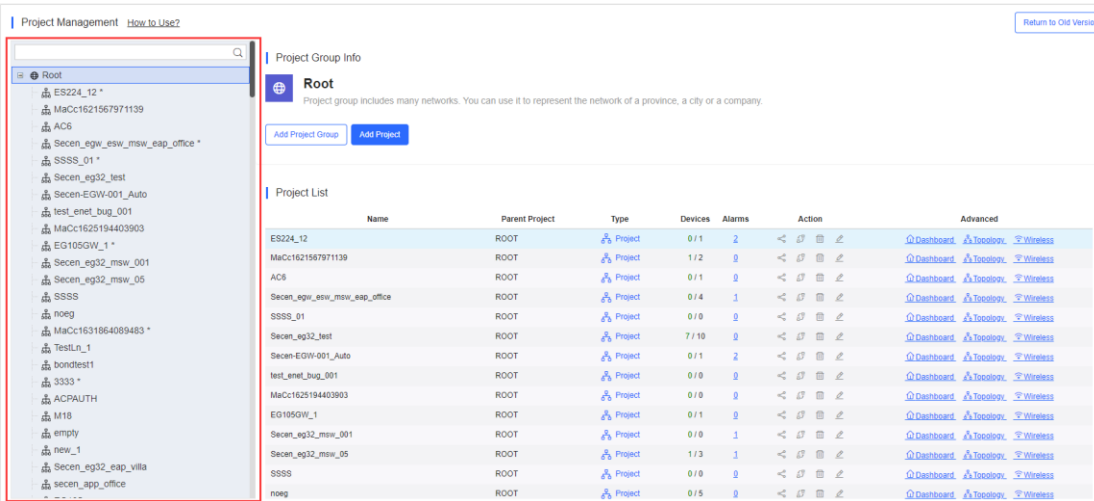
To facilitate the project management, especially when you have a number of projects, Ruijie Cloud optimizes the **Project** page.

The screenshot displays the Ruijie Cloud Project Management interface. The top navigation bar includes 'MONITORING', 'CONFIGURATION', and 'MAINTENANCE'. The left sidebar shows a hierarchical menu with categories: PROJECT, WIRELESS (Basic, Layout, Radio Planning, Roaming, Bluetooth), AUTHENTICATION (Captive Portal, PPSK, Voucher, Account, Easy Sharing), and ADVANCED (Batch CLI Config). The main content area is titled 'Project Management' and features a search bar and a tree view of project groups. The tree view shows a 'Root' group containing several sub-projects like 'ES224 \*', 'MaCc1621567971139', 'AC', 'Secen\_egw\_esw\_msw', 'SSSS\_01 \*', 'Secen\_eg32\_eap\_hotel', 'Secen\_eg32\_eap\_othe', 'Secen\_eg32\_test \*', 'test\_ip\_rc\_001', 'Secen-EGW-001\_Auto', 'test\_enet\_bug\_001', 'MaCc1625194403903', 'EG105GW\_1', 'MaCc1625194117542', 'ES224\_Auto2', and 'Secen\_eg32\_msw\_001'. Below the tree view, there is a 'Project Group Info' section for the selected 'ROOT' group, which includes a description and buttons for 'Add Project Group' and 'Add Project'. The 'Project List' section contains a table with the following data:

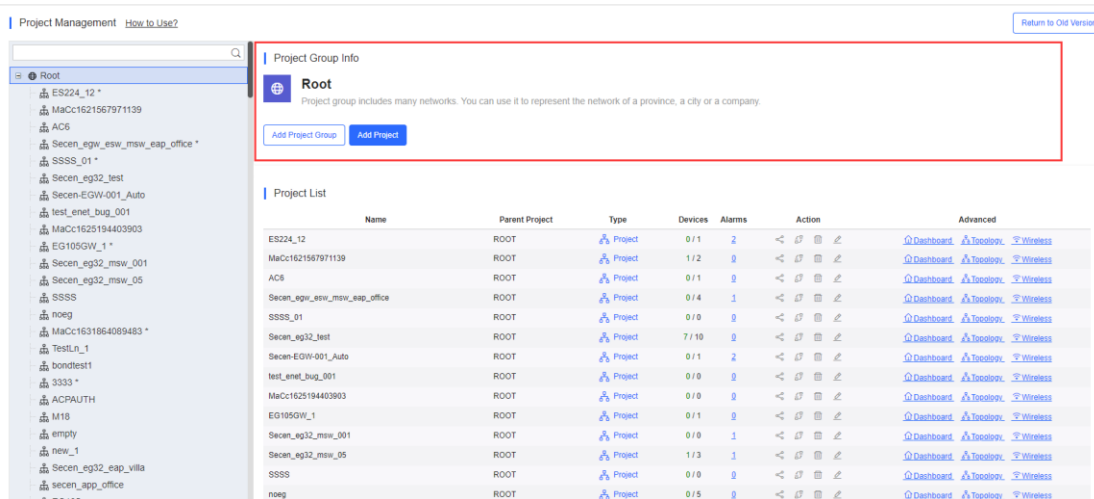
Name	Parent Project	Type	Devices	Alarms	Action
ES224	ROOT	Project	0 / 1	1	[Icons]
MaCc1621567971139	ROOT	Project	0 / 0	0	[Icons]
AC	ROOT	Project	0 / 1	0	[Icons]
Secen_egw_esw_msw_eap_office	ROOT	Project	0 / 2	2	[Icons]
SSSS_01	ROOT	Project	0 / 0	0	[Icons]
Secen_eg32_eap_hotel	ROOT	Project	0 / 1	2	[Icons]

The left menu displays the network hierarchical structure. Each node can be a project group or a project. You can click a node to display the corresponding project information.

- If the node is a project group, its projects will be displayed.
- If the node is a project, its sub projects will be displayed.



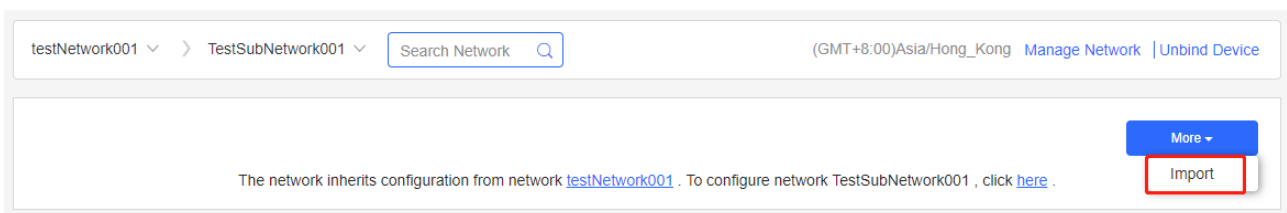
- If the node is a project group, you can add a new project.
- If the node is a project, you can add a new sub project.



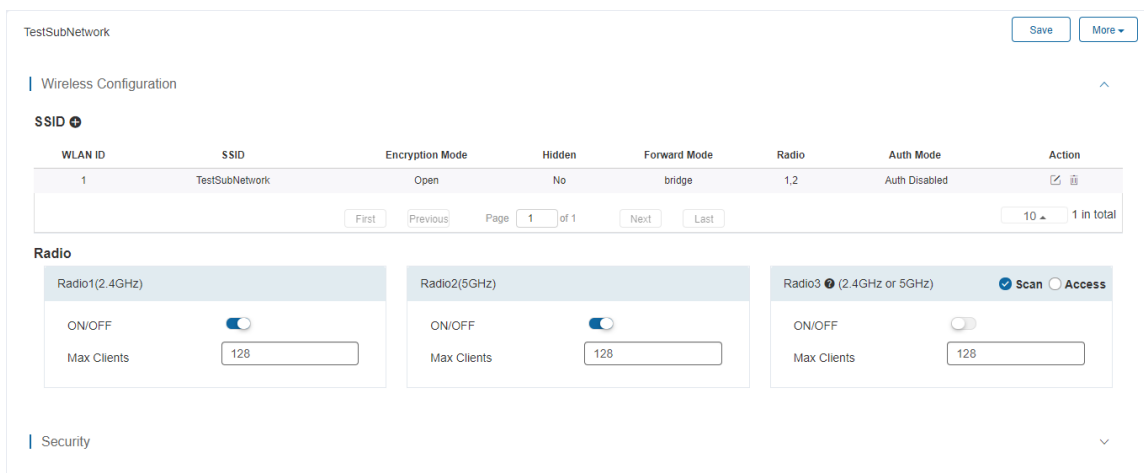
## 6.2 WIRELESS

### 6.2.1 Basic

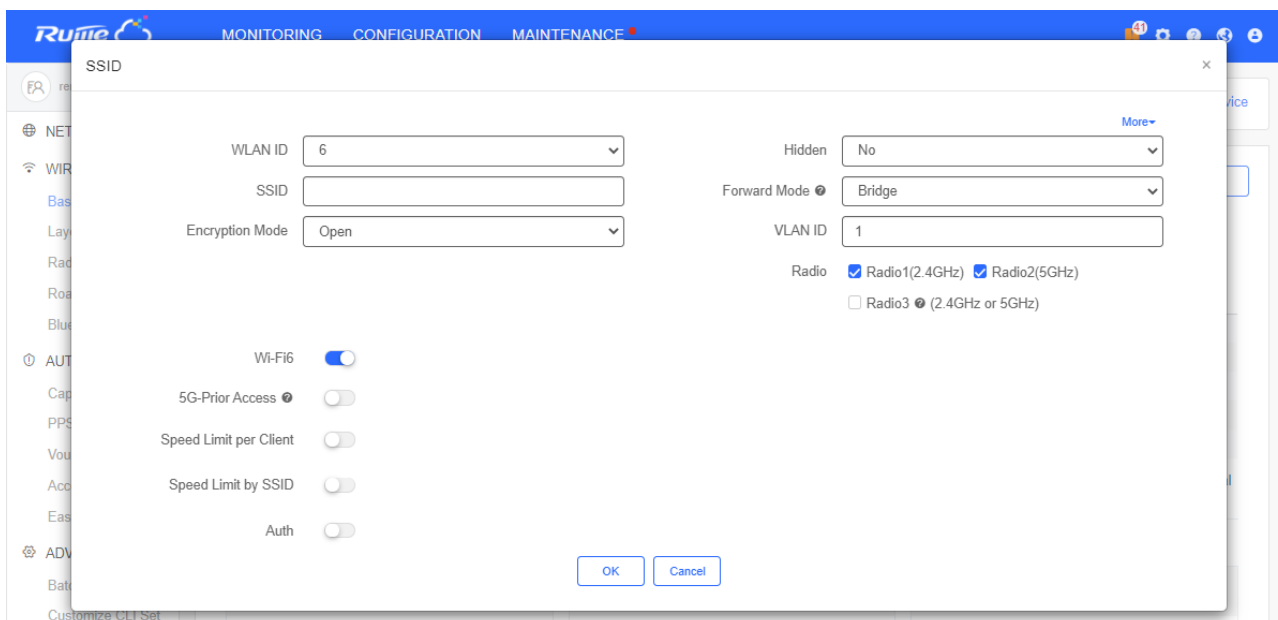
If a network is not configured, it will inherit configuration from its parent network by default. You can create a config file or import a config file from other networks. If there is any captive portal template unavailable for the network, then you can not import the config file.



The **Basic** page displays **Wireless Configuration**, **Security**, and **Advanced Settings**.



### 6.2.1.1 SSID



Click + in the upper left corner to add an SSID. In addition, the **SSID** page further enables you to configure the rate limit and the authentication function. Parameters on the **SSID** page are defined as follows.

**WLAN ID**: Select a WLAN ID. An SSID matches a WLAN ID one-to-one. The WLAN ID can be specified only when an SSID is added and cannot be changed subsequently. The maximum value of **WLAN ID** is 32.

**SSID**: Enter an SSID name.

**Encryption Mode**: Four modes are available: **OPEN**, **WPA-PSK**, **WPA2-PSK** AND **WPA2-ENTERPRISE (802.1X)**. **OPEN** indicates that no password needs to be configured; **WPA-PSK** or **WPA2-PSK** indicates that a password needs to be configured. **WPA2-Enterprise(802.1x)** indicates that the 802.1x authentication mode is adopted for the SSID. After the 802.1x authentication mode is selected, the following page is displayed. **PPSK** indicates that each terminal device is bound with a unique WiFi account and key. After the PPSK mode is selected, you need to configure your account in **CONFIGURATION>AUTHENTICATION>PPSK**.

SSID
✕

WLAN ID

SSID

Encryption Mode

Primary Server  + ✎

Jitter Prevention

Advanced Settings Advanced Settings

5G-Prior Access

Speed Limit per Client

Uplink  Mbps

Speed Limit by SSID

More▼

Hidden

Forward Mode

VLAN ID

Radio  Radio1(2.4GHz)  Radio2(5GHz)

Radio3 (2.4GHz or 5GHz)

Click + to add an authentication server. A dialog box for a Radius server configuration is displayed, as shown in the following figure.

Radius Server
✕

Server Name :

Server IP :

Authentication Port :

Accounting Port :

Key :

**Server IP, Authentication Port, Accounting Port, and Key** can be configured for a RADIUS server. **Authentication Port** and **Accounting Port** are optional, and respectively set to the default values **1812** and **1813** if no values are entered. The jitter prevention function can be configured in 802.1x authentication mode, as shown in the SSID configuration page with **Encryption Mode** set to **WPA2-Enterprise(802.1x)**. In case of jitters: after the jitter prevention function is enabled (the jitter prevention duration range is 0–600), clients will not go offline within the duration of jitter prevention. The default jitter prevention duration of an AP is 2 seconds. Note that the jitter prevention function may not be supported in earlier AP versions. In addition, the **Advanced Settings** function is provided for 802.1x authentication. In **Advanced Settings**, the NAS IP address (available in the NAT environment) and accounting update period can be configured and the added authentication server can be managed.

**Hidden:** Specify whether to hide the SSID, which can be set to **Yes** or **No**.

**Forward Mode:** Select a forward mode of a wireless AP. **NAT** indicates that an IP address is allocated to a client by an AP; **Bridge** indicates that an IP address is allocated to a client by an AP's upstream device. A VLAN ID must be configured when the **Bridge** mode selected.

**NAT Address Pool Configuration:** Click the **NAT Address Pool Configuration** link to display the window.

Support customized DNS configuration in NAT DHCP Pool.

**NAT Address Pool Configuration**

Note: 1. Only after the SSID has been configured with NAT forwarding mode, the NAT address pool configuration will be delivered to the AP.  
2. If the address pool has changed, the original client must re-associate the SSID to get the new address of the address pool.

**Common Address Pool Configuration (Recommended)**

Use the current address pool or the default address pool (192.168.23.0/24), [Apply default configuration](#) ^

Network:

Submask:

Primary DNS:

Standby DNS:

**NAT Roaming Address Pool Configuration** (Cloud will allocate different address pools for different APs. The AP must support L3 roaming. Please select this option when all APs in the network are dual-radio APs.)

By default, it is auto allocated by server. (Range: 10.233.0.0/24-10.254.254.0/24), [Click here to customize the address pool.](#) v

**Wi-Fi6:** RGOS and Reye APs support Wi-Fi6 configuration. On Reye APs, Wi-Fi6 can be enabled based on SSID. On RGOS APs, Wi-Fi6 can only be enabled based on Radio. After enabling, Wi-Fi6 is applied to the radio corresponding to the SSID.

**5G-Prior Access:** It is enabled when the SSID is associated with Radio 1 and Radio 2 for dual-band APs (2.4 GHz and 5 GHz) to ensure that clients supporting dual bands access the 5 GHz frequency band preferentially. This reduces the load in the 2.4 GHz frequency band and improves user experience.

**Rate limit:** Specify whether to enable the rate limit function for a client. When this function is enabled, uplink and downlink rates must be configured.

**Auth:** Common APs support **External Portal** and **Captive Portal** authentication.

### 6.2.1.2 External Portal

You can configure the External Portal when using an external authentication server.

Enable **Auth** and select **External Portal**. Enter correct information and click **OK**.

Auth

Mode

Portal Server URL

Portal IP

Portal Port(Optional)

Gateway ID(Optional)

Seamless Online  Enable(Available only when supported by Auth server)

Idle Client Timeout

### 6.2.1.3 Captive Portal

You can configure the Captive Portal when using Ruijie Cloud for authentication.

1. On the **SSID** page, enable **Auth** and select **Captive Portal**.

SSID ×

WLAN ID

SSID

Encryption Mode

5G-Prior Access

Speed Limit per Client

Speed Limit by SSID

Auth

Mode

More▼

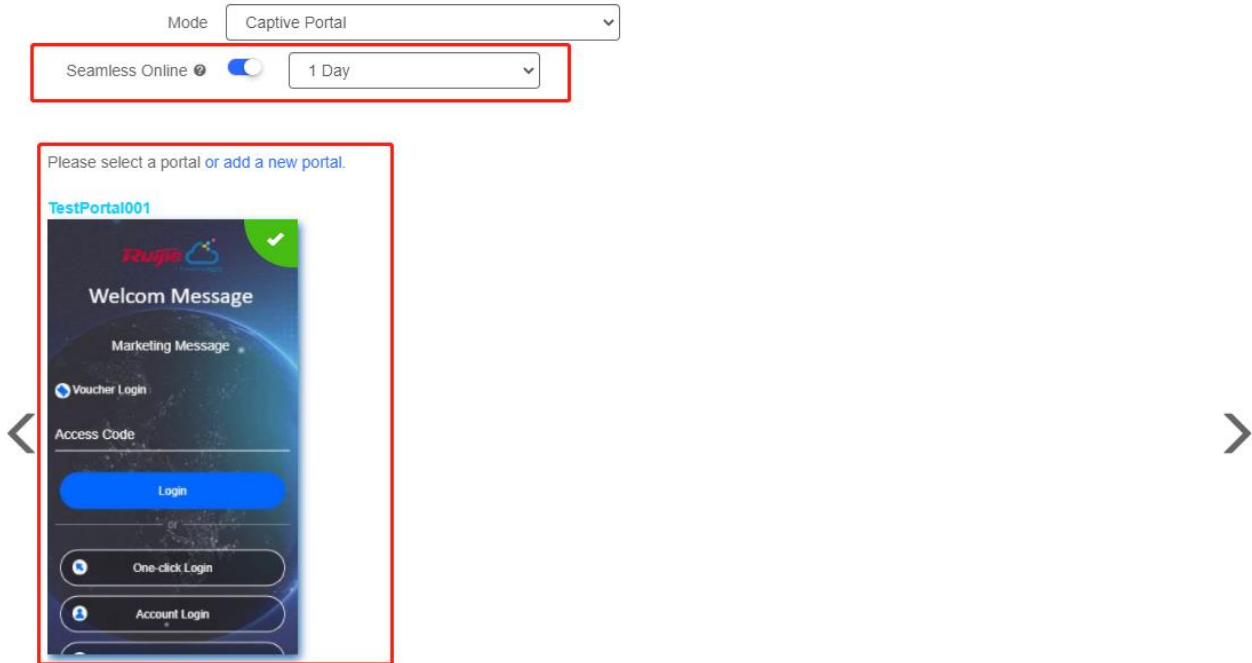
Hidden

Forward Mode

VLAN ID

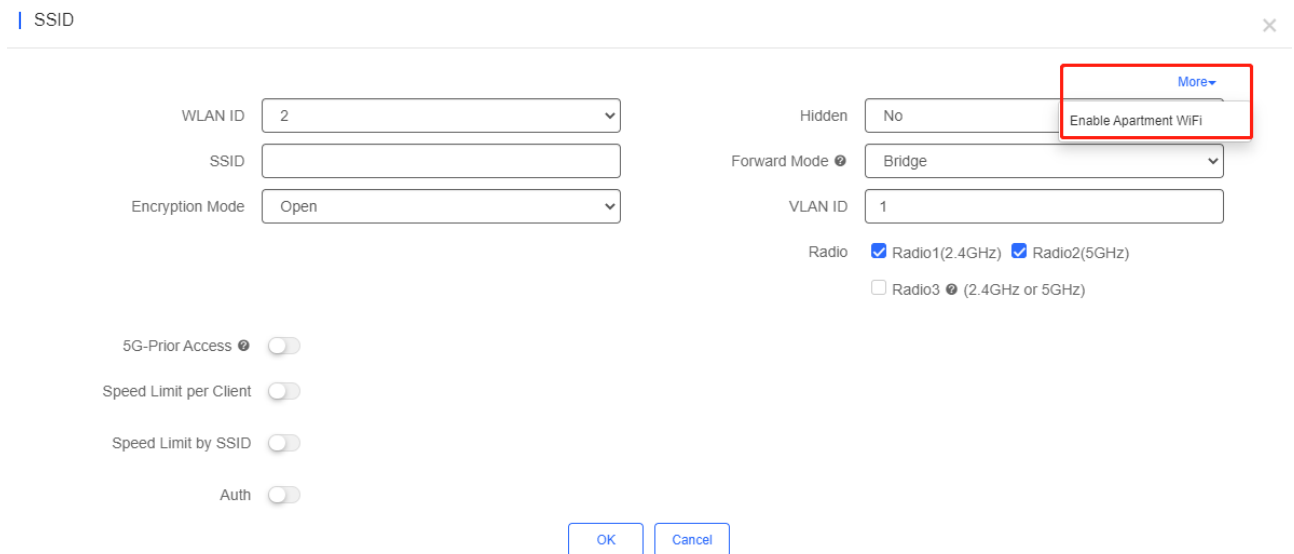
Radio  Radio1(2.4GHz)  Radio2(5GHz)  
 Radio3 (2.4GHz or 5GHz)

2. Enable **Seamless Online** and select the portal.



### 6.2.1.4 Apartment WiFi

To configure different SSIDs for APs, enable **Apartment WiFi** in **Basic > SSID > More**.









🔗 Enable Apartment WiFi to configure APs' SSIDs and passwords differently from each other in batch.

🔗 Each AP's SSID will be in the pattern of "SSID Prefix" + "AP Alias". For example, if the SSID prefix is "GroupSSID-", AP1 alias is "testAP1" and AP2 alias is "testAP2", then AP1 SSID at users end is "GroupSSID-testAP1", and AP2 SSID is "GroupSSID-testAP2". WiFi passwords can be configured differently as well.

🔗 Both SSID and password can be configured when importing APs in batch or adding an AP manually.

🔗 **Note:** To add an AP to this group after enabling Apartment WiFi, please click  in the SSID list to apply the configuration.

WLAN ID	<input type="text" value="2"/>	Hidden	<input type="text" value="No"/>
SSID Prefix	<input type="text"/>	Forward Mode 	<input type="text" value="Bridge"/>
Radio	<input checked="" type="checkbox"/> Radio1(2.4GHz) <input checked="" type="checkbox"/> Radio2(5GHz)	VLAN ID	<input type="text" value="1"/>
	<input type="checkbox"/> Radio3  (2.4GHz or 5GHz)		
5G-Prior Access 	<input type="checkbox"/>		
Speed Limit per Client	<input type="checkbox"/>		
Speed Limit by SSID	<input type="checkbox"/>		


### 6.2.1.5 Radio

#### Radio

Radio1(2.4GHz)

ON/OFF

Max Clients

Enable DFS 


The Radio page enables you to configure the AP radio ports. As shown in Figure 4-4, the **Radio** page provides the **On/Off** and **Max Clients** items. Parameters on the **Radio** page are defined as follows:

**On/Off:** Specify whether to enable the radio function. When it is set to **Off**, the SSID is invalid; the corresponding SSID can be used properly only when this function is set to **On**.

**Max Clients:** Enter the upper limit of associated clients in a frequency band.

**DFS:** After enabling DFS, the device will automatically change a channel when detecting radar interference. The function is only supported on RGOS devices.

---

 Deletion of radio configurations indicates that the system preserves the current configurations.

---

## 6.2.1.6 Security Configuration

| Security

### eWeb

To configure the password of EG3200 Series, [click here](#).

eWeb

Password  Tip: The password to log in to the AP eWeb.

### Telnet Settings

Telnet

Password  Tip: The password to log in to the AP by telnet.

### Client Isolation

AP-based Client Isolation (Clients on the same AP are isolated)

AP&SSID-based Client Isolation (Clients on the same AP with the same SSID are isolated)

### Wireless Intrusion Detection

DDOS Attack Detection

Flooding Attack Detection

AP Spoof Attack Detection

Weak IV Attack Detection

Attack sources will be added to the dynamic blacklist and their packets will be discarded

Clients will be in the blacklist for  seconds(Optional. Range:60-86400. Default: 300)

As shown in the preceding figure, **Web Password**, **Telnet Settings**, **Client Isolation**, and **Wireless Intrusion Detection** can be configured.

**Web Password:** Enter the Web login password of an AP. When the password is empty, the system does not push the password to AP.

**Telnet Settings:** Enable the Telnet service of AP. When the Telnet service is enabled, the password is required.

**Client Isolation:** Clients are isolated without affecting their network access to ensure that they cannot communicate with each other, thereby ensuring client service security. AP-based client isolation or AP&SSID-based client isolation can be selected. If AP-based client isolation is enabled, all layer-2 clients associated with the same AP cannot communicate with each other. If AP&SSID-based client isolation is enabled, clients in the same WLAN on the same AP cannot communicate with each other.

**Wireless Intrusion Attack Detection:** Include DDOS attack detection, flooding attack detection, AP spoof attack detection, and weak IV attack detection. If this function is enabled, at least one of the preceding four detection functions needs to be enabled.

## 6.2.1.7 Advanced Settings

### AP RF Scheduling:

If **AP RF Scheduling** is disabled, AP will broadcast the SSID.

#### AP RF Scheduling

RF Shutdown Scheduling

To specify the time of turning on/off WiFi, enable **RF Shutdown Scheduling** and configure the period.

**AP RF Scheduling**

RF Shutdown Scheduling

Period		
Start Time	This day	23 : 00
End Time	Next day	8 : 00

**Whitelist:** Enter whitelisted websites, and websites that can be accessed directly without authentication. For Facebook social login, you need check on Facebook Whitelist so that clients can access Facebook API before authentication.

**Whitelist** +

Facebook

Address	Description	Action
*.baidu.com		
*.ruijienetworks.com		
*.facebook.net	The domain name is mandatory for Facebook authentication	
*.facebook.com	The domain name is mandatory for Facebook authentication	
*.fbcdn.net	The domain name is mandatory for Facebook authentication	

Page  of 5
 

 23 in total

**CLI Command** +

Model	Description	Action
ALL	cwmp	

Page  of 1
 

 1 in total

**CLI Command:** Enter commands to be pushed to APs. This function allows you to perform some configurations unsupported via CLI commands.

## 6.2.2 Layout

On the Layout page, you can bind an AP to a specific location after importing it to a network.

The **Unbound Device List** on the right displays APs that have been imported to the network, but are not bound to a location. Click **Config Layout** to display the list.

Config Layout ✕


Name	Action
No Data	

Click **Add Layout** to add the local layout or map layout. The local layout can be used to bind the location of indoor APs and the map layout can be used to bind the location of outdoor APs.

Add/Edit Layout ×

Layout Name   
Please enter up to 18 characters, consisting of letters, numbers and underline (\_).

Layout Source  Local Layout  Map

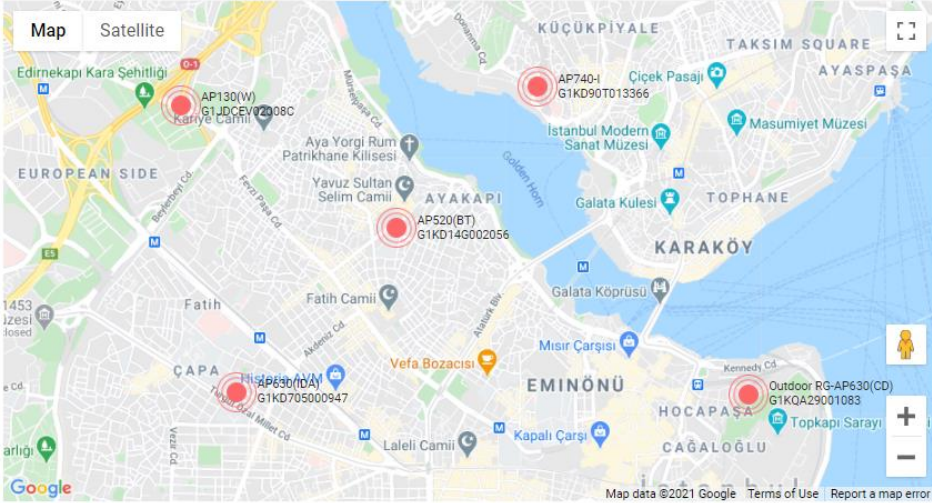


Please select a picture in the format of gif, jpg, jpeg, bmp or png. The size of the picture cannot exceed 5M.

Select an AP from in the unbound AP list and drag it to the target location.

Layout

Layout:



Unbound Device List

SN: 1234567891026	Type: AP
SN: 4RW6E5RWQ5REWQ5	Type: SWITCH
SN: G1KD14P00154B	Type: AP
SN: G1KD34P049831	Type: AP
SN: G1KDAHJ092811	Type: AP
<b>Ruijie</b>	
SN: G1KQB7F01872A	Type: AP
<b>S29105</b>	
SN: G1L90NN001321	Type: SWITCH
<b>AP130w2</b>	
SN: G1LQ102021480	Type: AP
<b>123</b>	
SN: G1LQ68Q061962	Type: AP
<b>AP520(W2)</b>	
SN: G1LQ6JR08746C	Type: AP
<b>S2928G-E V3</b>	

### 6.2.2.1 Unbind APs

AP unbinding is different from AP deletion. AP unbinding removes the binding relation between an AP and a location, but the AP still exists in the network and can be managed. AP deletion deletes an AP from a network and the AP cannot be controlled after being deleted.

The AP unbinding methods are:

Method 1: Select an AP, and click  to unbind the AP from a location. An unbound AP will then be moved from a network to its parent network.

Method 2: If a location is already bound with an AP, you can drag another AP to the location to replace the old one.

### 6.2.3 Radio Planning

Radio planning can adjust channels and power of APs in the same area to optimize the channel allocation and power of the APs. Proper RF configuration planning can reduce channel interference, increase channel utilization and improve overall wireless performance and capacity.

Select **CONFIGURATION > WIRELESS > Radio Planning** to enter the **Radio planning** page. Both manual and automatic planning are currently supported.

Radio Settings

Country/Region	China HK(HK) ▼
RF1(2.4G) Default Channel Width	20MHz ▼
RF2(5G) Default Channel Width	80MHz ▼
RF3(5G) Default Channel Width	40MHz ▼

Save

---

Smart RRM

[Custom Channel](#) | [Recent RF Scan History](#) | [Schedule Settings](#)

Scan Mode:

Quick Scan
 

😊 The WiFi service won't be interrupted during scanning process.

😞 The scanning result may not include all interference.

Deep Scan
 

😊 The result will cover almost all WiFi interference.

😞 The WiFi service will be interrupted during scanning process(disconnect and reconnect).

Synchronize to Device :

Scan Now

### 6.2.3.1 Radio Settings

On the **Radio Settings** page, select the country and Channel Width.

Radio Settings

Country/Region	China HK(HK) ▼
RF1(2.4G) Default Channel Width	20MHz ▼
RF2(5G) Default Channel Width	80MHz ▼
RF3(5G) Default Channel Width	40MHz ▼

Save

For 2.4G channels, the bandwidth can be 20 or 40 MHz.

For 5G channels, the bandwidth can be 20, 40, 80, or 160 MHz.

### 6.2.3.2 Smart RRM

The automatic RF planning function allows Cloud to calculate the optimal channel configurations and power values for APs by using the radio resource management (RRM) algorithm according to RF information collected by each AP. Optimal recommended configurations can be applied to the APs.

The entire process of the automatic RF planning includes three parts:

1. Cloud triggers APs to scan and upload RF information.
2. Cloud calculates the optimal recommended configurations.
3. The optimal recommended configurations are applied to the APs.

The automatic RF planning supports network-based planning only.

The AP RF channel optimization algorithm staggers RF channels of neighboring APs respectively based on the 2.4 GHz frequency band and the 5 GHz frequency band while ensuring as much as possible that original configurations are unchanged. To reach optimal power, The AP power optimization algorithm automatically increases or decreases the RF power for an AP according to the co-channel interference.

After a network is selected on the RF planning page, a page for automatic RF scanning and planning of the network is displayed. On this page, the APs of a network can be triggered to scan the RF, display recommended RF configurations calculated after scanning, and save the recommended RF configurations to APs.

Smart RRM > Recent RF Scan History

Triggered at	RRM Analysis at	Updated at	Scan Mode	Status	Apply	Task	Result	Action
2017-06-20 16:20:25	2017-06-20 16:42:25	2017-06-20 16:44:00	Quick Scan	Finish	Yes	No	Online devices: 1, do not support devices: 0, finished devices: 1	

The **Recent RF Scan History** page displays historical records of automatic RF scanning and planning. Each record shows triggering information got each time, including the automatic RF planning status, the start time, the end time, the status (Initializing/Scanning/RRM analysis/Finish/Failure), whether to apply to the APs, and the running logs.

● Smart RRM

Smart RRM [Custom Channel](#) [Recent RF Scan History](#) [Schedule Settings](#)

Scan Mode:

Quick Scan

The WiFi service won't be interrupted during scanning process.

The scanning result may not include all interference.

Deep Scan

The result will cover almost all WiFi interference.

The WiFi service will be interrupted during scanning process(disconnect and reconnect).

Synchronize to Device :

Action : Synchronize recommended channel

Scan Now

There are two execution modes: immediate and periodic. Click **Scan Now**, and Cloud starts RF scanning. Data will be uploaded after scanning.

● Schedule Settings

Smart RRM > Schedule Settings

Status:

Scan Mode :

Quick Scan ?

The WiFi service won't be interrupted during scanning process.

The scanning result may not include all interference.

Deep Scan ?

The result will cover almost all WiFi interference.

The WiFi service will be interrupted during scanning process(disconnect and reconnect).

Time: 16:00

Monday  Tuesday  Wednesday  Thursday  Friday  Saturday  Sunday

Synchronize to Device :

Action : Synchronize recommended channel

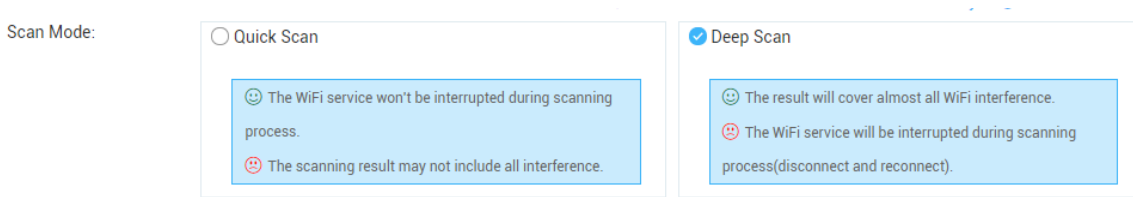
Save

On the **Schedule Settings** page, **Periodic Execution** can be enabled.

When a periodic task is triggered, this periodic task is automatically canceled if the network is already in a scanning triggered state (for example, immediate execution is being triggered).

- Related parameters

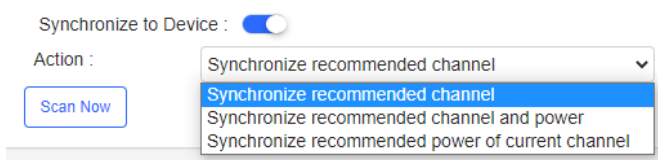
(1) Scan Mode



**Quick Scan:** This mode enables APs to provide the WiFi service properly during scanning. However, data acquired in this mode is not as accurate as that in the **Deep Scan** mode. The calculation result based on the data in this mode is less accurate than that in the **Deep Scan** mode. This mode is applied when it is expected that the current network is not affected.

**Deep Scan:** This mode is also referred to as the enhanced mode, and causes wireless clients to go offline at the beginning and ending of the scanning. Data acquired in this mode is more accurate than that in the **Quick Scan** mode, and the automatic RF planning based on the data is more accurate. This mode shall be applied at the initial stage of the overall network planning or when disadvantages of this mode are tolerable.

(2) Sync to Device



If this function is enabled, the RF scanning result will be automatically pushed to the AP. In this case, skip step 3.

(3) Manually push the RF optimization results (synchronize the RF configurations to the APs).

Skip this step if **Sync to Device** is enabled.

After the status in the record of the triggered RF planning displays **Finish**, check the planning results, and synchronize the recommended automatic planning RF configurations to the APs.

It allows you to directly view RF optimization results, and directly push the optimized configurations to APs of a network, without relying on the location planning. It is convenient and suitable for fast deployment, and can be used when the APs have no location planning or are not bound.

(4) Click **Recent RF Scan History** in the list to display the automatic RF planning result list of the APs.

Smart RRM > Recent RF Scan History 🔄 📄 ⌵ ⌵

Triggered at	RRM Analysis at	Updated at	Scan Mode	Status	Apply	Task	Result	Action
2017-06-20 16:20:25	2017-06-20 16:42:25	2017-06-20 16:44:00	Quick Scan	Finish	Yes	No	Online devices: 1, do not support devices: 0, finished devices: 1	📄 🗑️ ✕
2017-06-11 11:00:52	2017-06-11 11:23:22	2017-06-11 11:04:02	Quick Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️
2017-06-11 10:54:07	2017-06-11 11:16:37	2017-06-11 10:57:18	Quick Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️
2017-06-09 18:19:39	2017-06-09 18:42:09	2017-06-09 18:22:49	Deep Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️
2017-06-09 17:28:23	2017-06-09 17:50:53	2017-06-09 17:31:33	Quick Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️
2017-06-09 17:14:35	2017-06-09 17:37:05	2017-06-09 17:17:45	Quick Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️
2017-06-09 17:06:30	2017-06-09 17:29:00	2017-06-09 17:09:40	Quick Scan	Failure	No	No	RF scan is not supported in the organization	📄 🗑️

First Previous Page 1 of 1 Next Last

10 ▲ 7 in total

SN	Radio	MAC	Channel	Recommended Channel	Channel Changed	Power(%)	Recommended Power(%)	Recommended Signal Power(%)
G1KDAHJ052008	2.4G	5869.6cc1.96d0	1	1	No	100	100	100
G1KDAHJ052008	5G	5869.6cc1.96d0	149	149	No	100	100	100

In the RF optimization result list of the APs, **Recommended Power** indicates a recommended power value for the current channel. **Recommended Signal Power** indicates a recommended power value for the recommended channel. It is calculated based on the recommended channel, and is configured together with the recommended channel.

- (5) Click [Sync Latest Config To AP](#) in the trigger record, and select a mode to push the recommended optimization configurations to the corresponding APs.

Three modes are available: pushing the recommended channel configurations, pushing the recommended power configurations of the current channel, and pushing the recommended power configurations of the recommended channel. Any of the three modes can be selected as required.

**i** If an AP has been bound to a location and has been synchronized with RF configurations of the location. This operation will remove the RF synchronization between the location and the AP, and push the selected recommended optimization configurations to the AP.

### 6.2.3.3 Manual Planning

You can also manually configure the RF of a network. First, select a network to open the **Manual Planning** page. You can select a radio type (2.4 GHz/5 GHz) in the **Radio Select** drop-down list. The number inside the location icon indicates the current channel, and the power percentage is displayed when you point to the location icon.

**i** The RF channel or power data is not displayed during configuration.

Click a location icon to display the RF channel and power configurations on the right. If the location is bound to an AP, the SN of the bound AP is also displayed.

Manual Planning

List
Layout

Layout : test
Radio Select : 2.4G
Batch Config

**Config Details**

SN: G1MW90K006997

Country: China(CN)

- Radio 1(2.4Ghz)**

Channel:

TX Power:
- Radio 2(5Ghz)**

Channel:

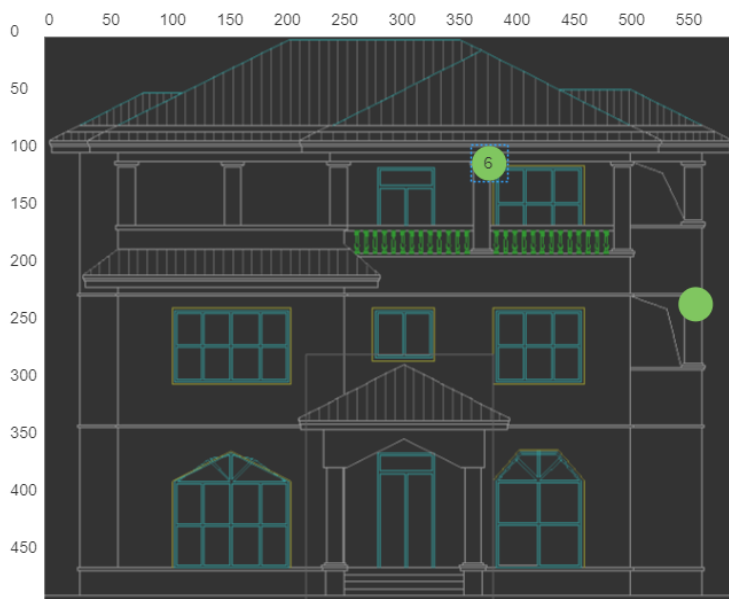
TX Power:

To perform manual RF planning:

- Set the RF configurations of a location in one of the following ways:
  - Configure one location



Click a location icon, configure parameters the right, and click **Apply**.



SN: G1MW90K006997  
 Country: China(CN)

- Radio 1(2.4Ghz)  
 Channel:   
 TX Power:
- Radio 2(5Ghz)  
 Channel:   
 TX Power:
- Radio 3(5Ghz)  
 Channel:   
 TX Power:

**Apply**

● Configure locations in batches

This function is used to configure the RF channel and power for a large batch of locations, and is suitable for a scenario with many locations on a network.

Click **Batch Config** above the location diagram to configure the power percentage for all locations of a network.

Batch Config ×

Radio:


Power:  %

**Save** **Close**

2. Synchronize the RF configurations of the location to a bound AP

Click **Apply** above the location diagram to synchronize the RF configurations of the corresponding location to the bound AP.

Batch operations for multiple locations can be select before clicking **Apply**.

After the synchronization is successful,  is displayed in the lower right corner. At this point, the configurations of the location are synchronized to the bound AP.

**i** If the Bind or Unbind operation is performed, RF configurations are synchronized to or removed from the AP.

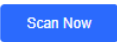
### 6.2.3.4 AC Smart RRM

In the AC network, click **Radio Planning** to open the **Smart RRM** page.

The screenshot shows the Ruijie configuration interface. The top navigation bar includes 'MONITORING', 'CONFIGURATION', and 'MAINTENANCE'. The left sidebar shows 'NETWORKS' with 'WIRELESS' expanded, and 'Radio Planning' selected. The main content area is titled 'Smart RRM' and 'RRM'. It includes an introduction, notes, and a 'Scan Now' button. The notes are:

1. The scheduled time depends on the system time.
2. RRM will last for about 10min and STAs may go offline. It is recommended to avoid busy hours.
3. If the system is busy with channel adjustment or AP Radio adjustment, please try again later.

The 'I have read the above notes' checkbox is checked. The 'Scan Now' button is visible.

Check “I have read the above note”, and click  to start RRM. The whole process takes about 10 to 15 minutes.

The screenshot shows the Ruijie configuration interface during the RRM scanning process. The left sidebar shows 'NETWORKS' with 'WIRELESS' expanded, and 'Radio Planning' selected. The main content area is titled 'Smart RRM' and 'Scanning...'. It displays a progress bar at 11% and the following information:

- Started at: 2021-01-22 09:09:15
- Timed Used: 31s

The notes are:

- Interference includes WLAN interference and non-WLAN interference.
- It is recommended to disable the rate set lower than 11M in a scenario of few interference and high RSSI to avoid air interface performance deterioration caused by low rate.
- It is recommended to disable power saving for the STAs to keep them connected even in sleeping mode, avoiding repetitive association or authentication caused by disconnection.
- It is recommended to set Roaming Sensitivity Level to high on the STA to ensure successful roaming.

Enable **Scheduled RRM** to configure the time, and RRM will start at the set time.



## RRM

### Introduction

The network will be optimized at 2021-01-22 09:31:12. Please ensure all APs are online before start.

2021-01-22 09:31:12

OK Cancel

### Note

- 1. The scheduled time depends on the local time zone.
  - 2. RRM will last for about 10min and STAs may go offline. It is recommended to avoid busy hours.
  - 3. If the system is busy with channel adjustment or AP Radio adjustment, please try again later.
- I have read the above notes.

Scan Now Scheduled RRM

## 6.2.4 Roaming

Roaming planning refers to enabling network-based roaming.

L3 Roaming: You can seamlessly connect to APs with different VLANs. It is enabled by default.

L2 InVLAN Tunnel Forwarding: You can seamlessly connect to APs with the same VLAN. It is enabled by default.

Nature Roaming Settings

L3 Roaming :  L2 InVLAN Tunnel Forwarding :

With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:

The diagram is divided into four quadrants. Top-left: 'Before' shows a user on Floor 1 (VLAN 10) connected to Ruijie\_HOME. Top-right: 'L3 Roaming' shows the user moving to Floor 2 (VLAN 20) and still connected to Ruijie\_HOME. Bottom-left: 'Before' shows a user in a Living Room (VLAN 20) connected to Ruijie\_HOME. Bottom-right: 'L2 InVLAN Tunnel Forwarding' shows the user moving to a Bedroom (VLAN 20) and still connected to Ruijie\_HOME.

**i** For wireless roaming, SSID signals must be consistent; otherwise, roaming may fail.

## 6.2.5 Bluetooth

Bluetooth configuration functions include Bluetooth configuration import, configuration adding for a single AP, configuration modification, and configuration deletion, as shown in the following figure:

Device Info ↻ ☰ ▾ 🗑️

Search

	Device SN	Status	UUID	Major	Minor	Network	AP Alias	Action
<input type="checkbox"/>	G1KD14G002056	Enable	2DB4F012A9204D0A859871456D24E6A0	1	2	Lab_1	AP520(BT)_1	✎ 🗑️

First Previous Page 1 of 1 Next Last

10 ▲ 1 in total
 

Add Import

● Import Bluetooth Configuration in Batches

Click **Import**, and click **Download Template** to download the template corresponding to APs in the current network and set corresponding parameters in the file. Requirements for the **UUID**, **Major**, and **Minor** parameters are:

**UUID:** Enter a string of 32 characters in hexadecimal format.


**Major:** Enter a string of 4 characters in hexadecimal format.

**Minor:** Enter a string of 4 characters in hexadecimal format.

Import ✕

---

Please download the template and enter the Bluetooth configuration before uploading the template. Up to 500 records can be imported



".xls" File
Download Template

Cancel

After the parameters are filled, click **'.xls' File** to import the file.

● Add Bluetooth Configuration for an AP

Click **Add**, enter the parameters as required to add a Bluetooth configuration for one AP and click **Save**. If a Bluetooth configuration is already configured for the AP, the existing Bluetooth configuration will be updated.

Bluetooth ✕

---

Device SN :  \*

Status :

UUID :  \*

Major :  \*

Minor :  \*

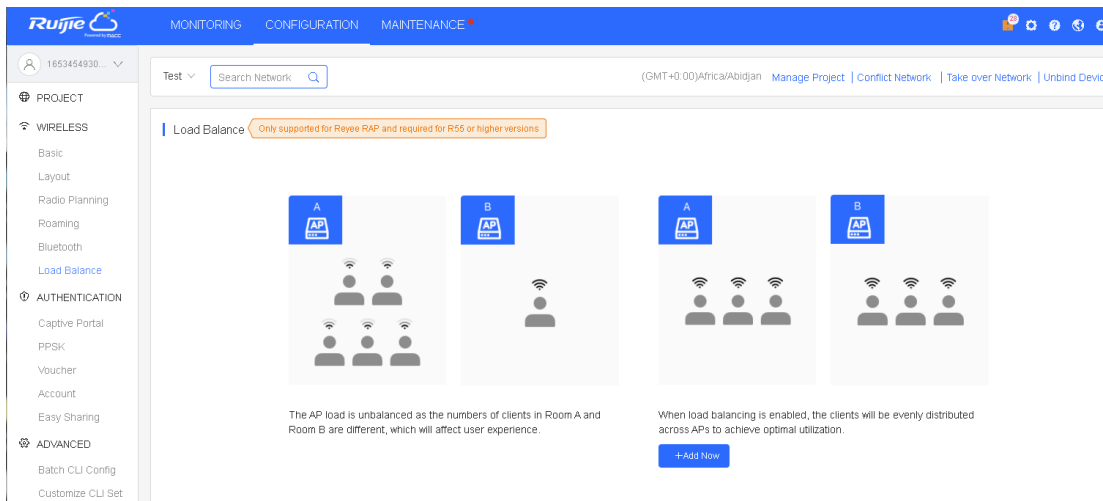
Save
Close

● Edit Bluetooth Configuration for an AP

Click the icon in the **Action** column, edit the parameters and click **Save**.

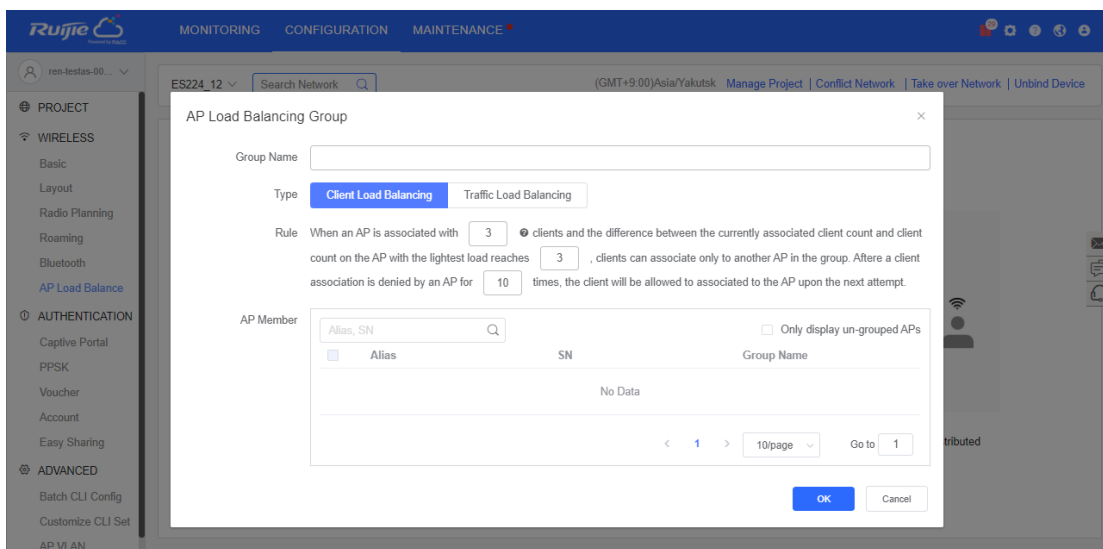
## 6.2.6 Load Balance

The AP load is imbalanced as the distribution of clients is uneven. As a result, the user experience of clients who are associated with heavily loaded AP may be affected. To solve the problem, you can create a load balancing group to evenly distribute clients across APs to enhance the user experience. Please note that load balance is only supported on RAPs in the network with Reyeeg EG.

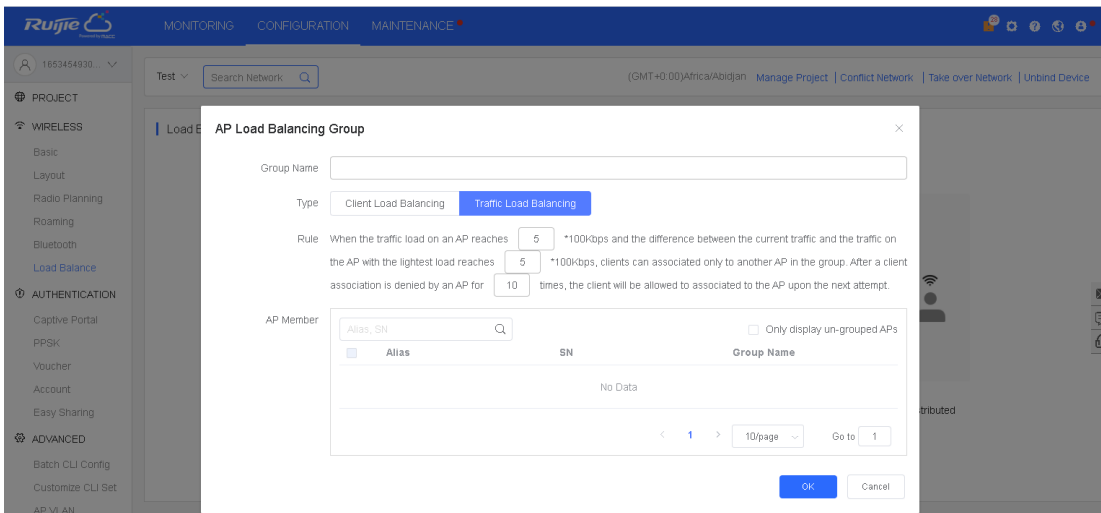


There are two types of load balancing policies: Client Load Balancing and Traffic Load Balancing.

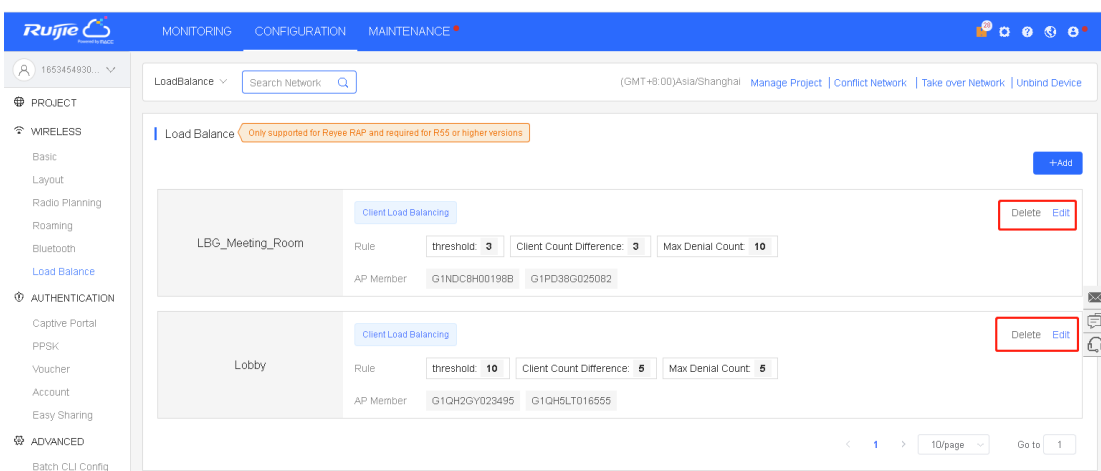
**Client Load Balancing:** When the difference of client number between 2 APs reaches the threshold, the AP with heavy load will deny the association of a new client, and the client can only associate with another AP in the group. After the number of client association is denied for the specified times, it will be allowed to associate with the AP upon the next attempt.



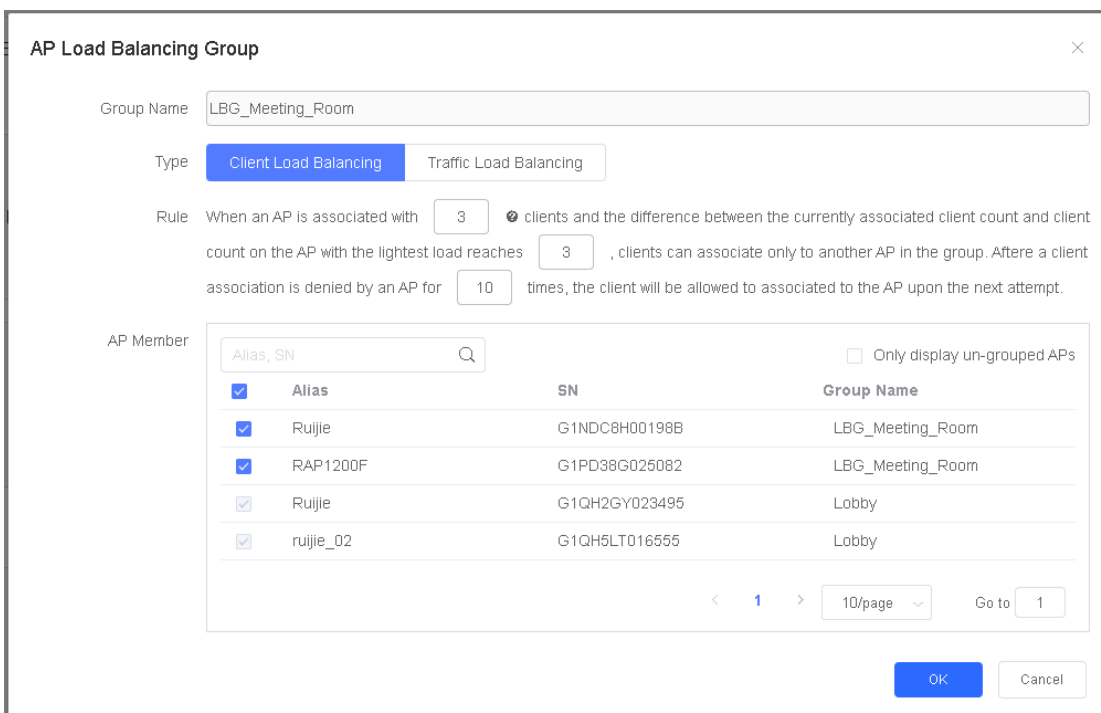
**Traffic Load Balancing:** When the difference of AP traffic load between 2 APs reaches the threshold, the AP with heavy load will deny the association of new client, and the client can only associate with another AP in the group. After the number of client association is denied for the specified times, it will be allowed to associate with the AP upon the next attempt.



After a load balancing group is added, you can delete it or edit its configuration.



You can change the parameters of balancing policy and the APs in group. Please note that an AP can only be added to a load balancing group.



## 6.3 AUTHENTICATION

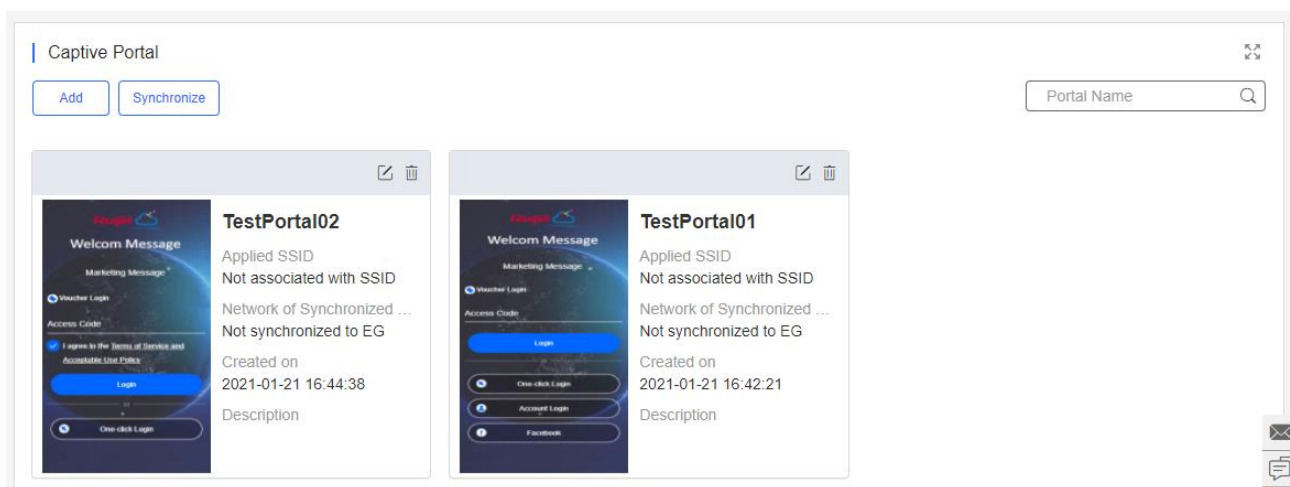
### 6.3.1 Captive Portal

On the **Captive Portal** page, you can edit the portal template. If you enable **Auth** when configuring SSID and select the **Captive Portal** option, you can select an existing portal template.

Select **CONFIGURATION > AUTHENTICATION > Captive Portal** to open the **Captive Portal** page, and select a network on the top to filter captive portals.

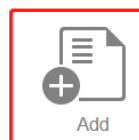
When **Captive Portal** is enabled, SSID can associate with the templates. You can manage templates under a network, but only use or associate templates under a sub-network.



#### 6.3.1.1 Captive Portal List



The list displays all captive portal templates, including thumbnails, name, association status, creation time and description.

- Add Captive Portal



Click  or  to open the **Add Captive Portal** page. Enter name, description and post login URL, and select login options. After **Status Balance Page** is enabled, you can check your balance information after login.

| Captive Portal > Add ×

Name

Description

Login Options  One-click Login  Voucher  Account  Facebook Account  SMS

Access Duration (Min)

Show Balance Page

Post-login URL

There are four login options: **One-click Login**, **Voucher**, **Account** and **Facebook Account**.

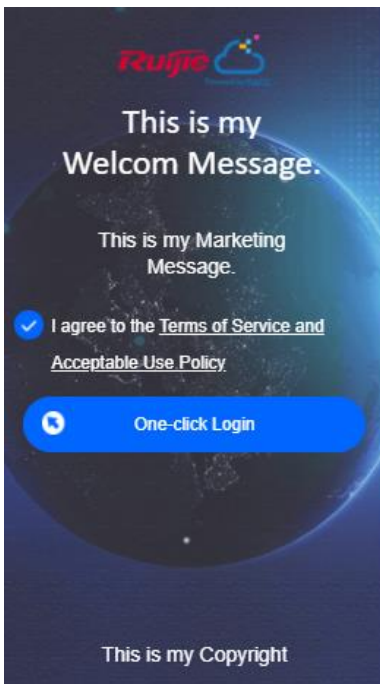
One-Click Login: You can set **Access Duration** and **Access Times Per Day**.

Login Options  One-click Login  Voucher  Account  Facebook Account  SMS

Access Duration (Min)

Access Times Per Day

The page for One-click Login:

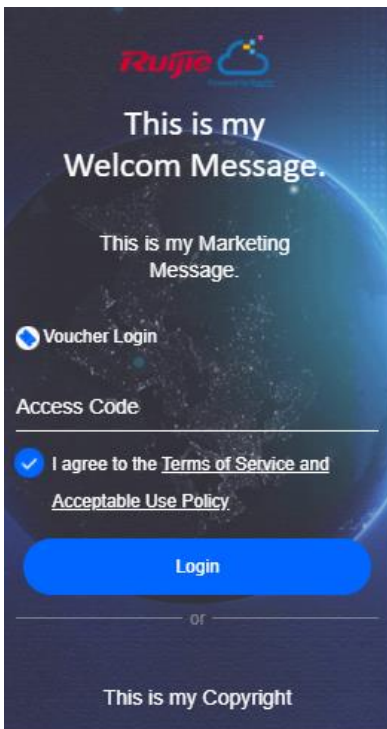


Voucher: You can log in with the voucher code.

Login Options  One-click Login  Voucher  Account  Facebook Account  SMS

The page for Voucher:

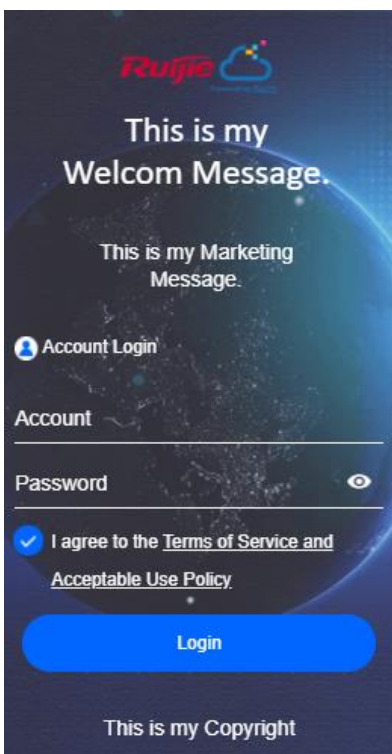




Account: You can log in with the account and password.

Login Options  One-click Login  Voucher  Account  Facebook Account  SMS

The page for Account:



Facebook Account: You can log in with your Facebook account, and **Facebook Like** is available. When **Facebook Like** is enabled, you need to provide the corresponding **URL**, **Profile Photo**, **Page Name** and **Description**.

Login Options  One-click Login  Voucher  Account  Facebook Account  SMS

Facebook Like Beta

Limitation: Facebook Like is supported only when you manually open the browser and complete the authentication.

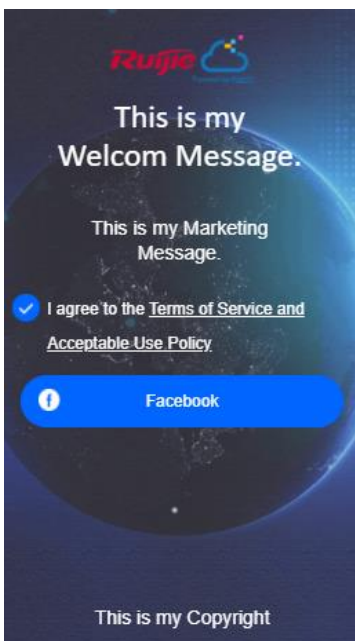
URL

Profile Photo No Image Selected Upload

Page Name

Description

The page for Facebook Account Login:



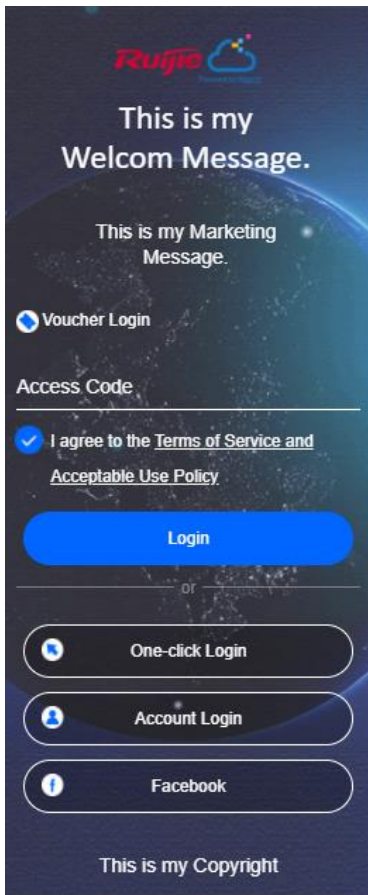
**Note:** if you select **Facebook Account**, you need to enable Facebook Whitelist at the **Advanced Settings** panel.

Whitelist

Facebook

Address	Description	Action
www.facebook.com		
staticxx.facebook.com		
captive.apple.com		
fbcdn.net		
static.ak.fbcdn.com		

You can also select multiple login options. The page for One-click Login, Voucher, Account and Facebook Account Login:



- Portal Page

You can customize the content and style of the login page. The previews on the mobile phone and PC are displayed on the right.

Note: Each type of authentication supports a maximum of three languages. During authentication, users can select a language switching icon in the upper right corner of the authentication page to switch the language.

Portal Page ⓘ

Basic    Advanced

Logo Picture ⓘ    Default Logo    Upload

Background     Image     Solid Color

Background Image ⓘ    Default Image    Upload

Languages    English ×    +

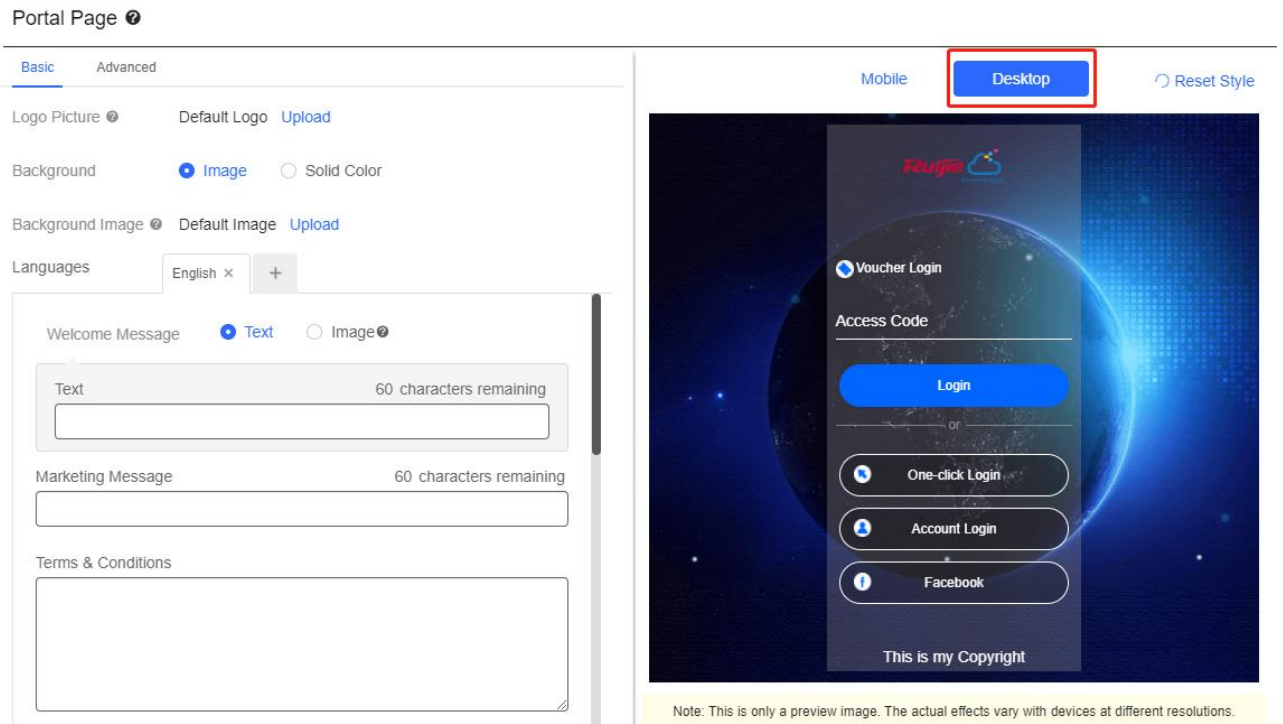
Welcome Message     Text     Image ⓘ

Text    60 characters remaining

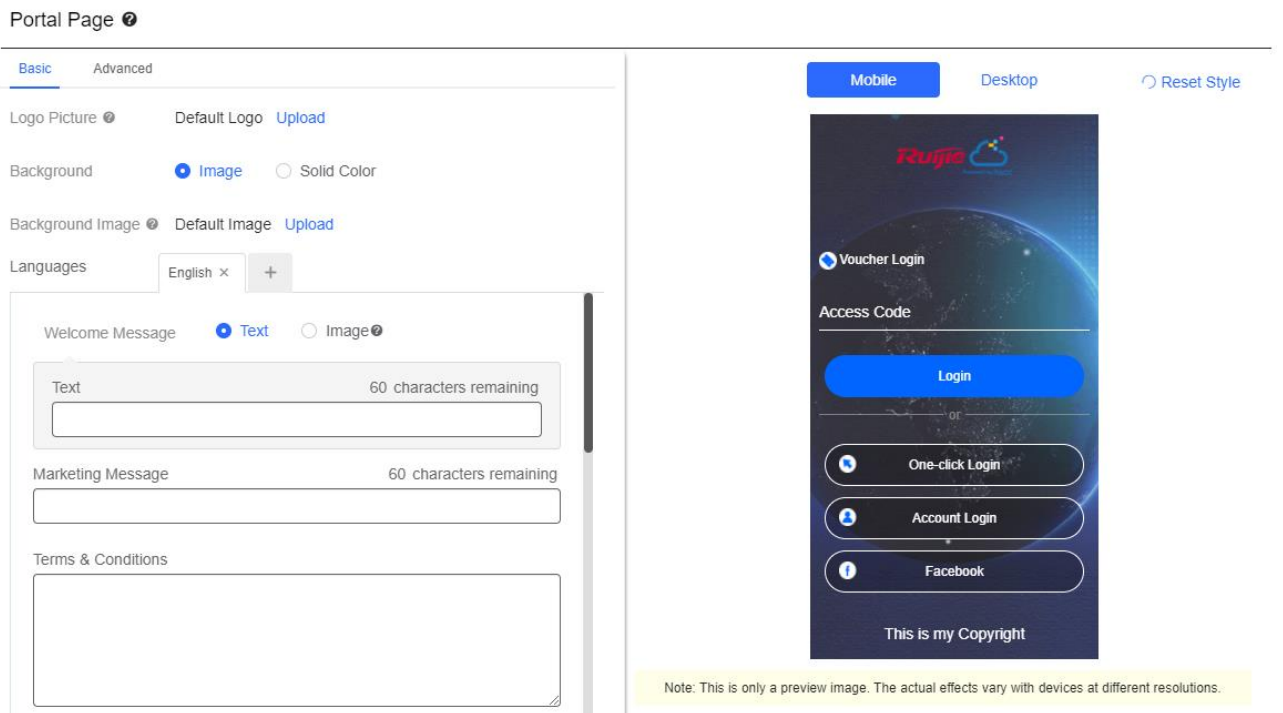
Marketing Message    60 characters remaining

Terms & Conditions

Mobile    Desktop    Reset Style



In the **Basic** tab, set the logo picture, background color or image, welcome message, marketing message, terms & conditions and copyright.



In the **Advanced** tab, set the Logo position, background mask color/opacity, text color/size. Click **Reset Style** to restore the default style.

Portal Page

Basic **Advanced**

Logo Position

Background Mask Color

Background Mask Opacity

Welcome Message Text Color

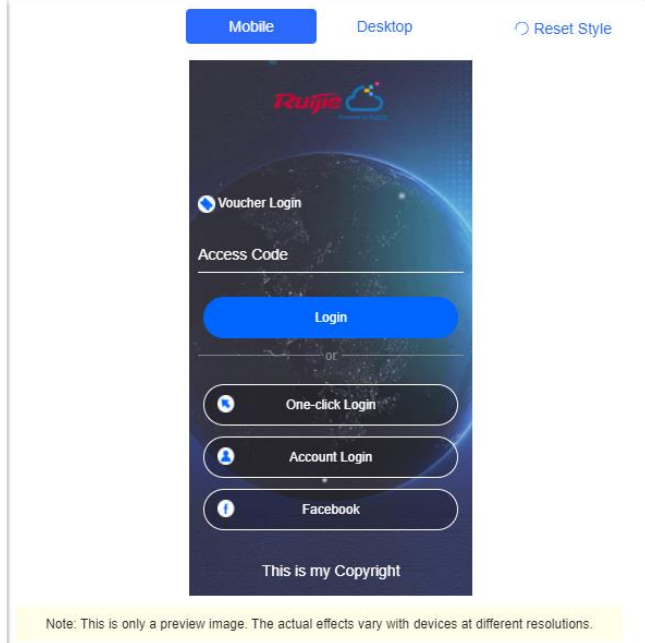
Welcome Message Text Size

Button Color

Button Text Color

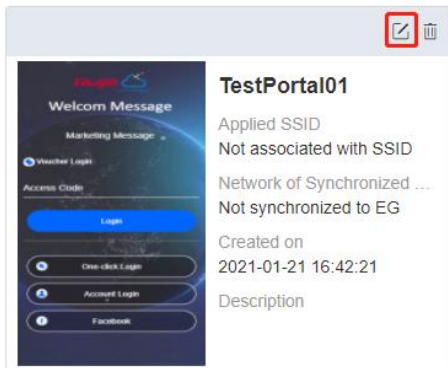
Link Color

Text Color



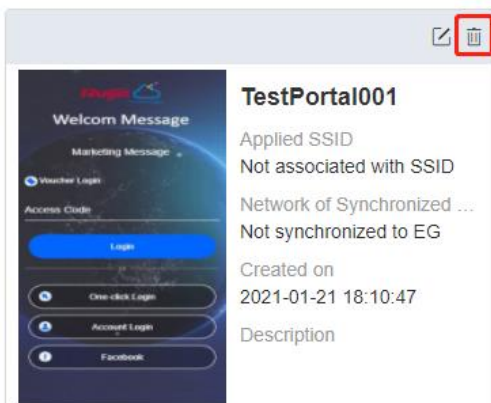
Click  on the bottom to save.


### 6.3.1.2 Edit Captive Portal

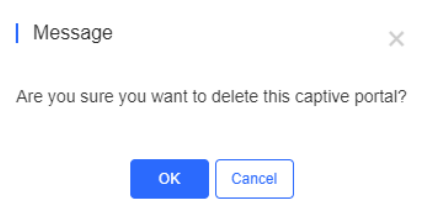


Click to edit a template, and click  to save.

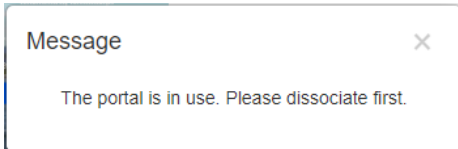
### 6.3.1.3 Delete Captive Portal



Click  and then click  in the confirmation window to delete a template.



If the template is associated to an SSID or applied to the EG, then you need to dissociate it before delete.



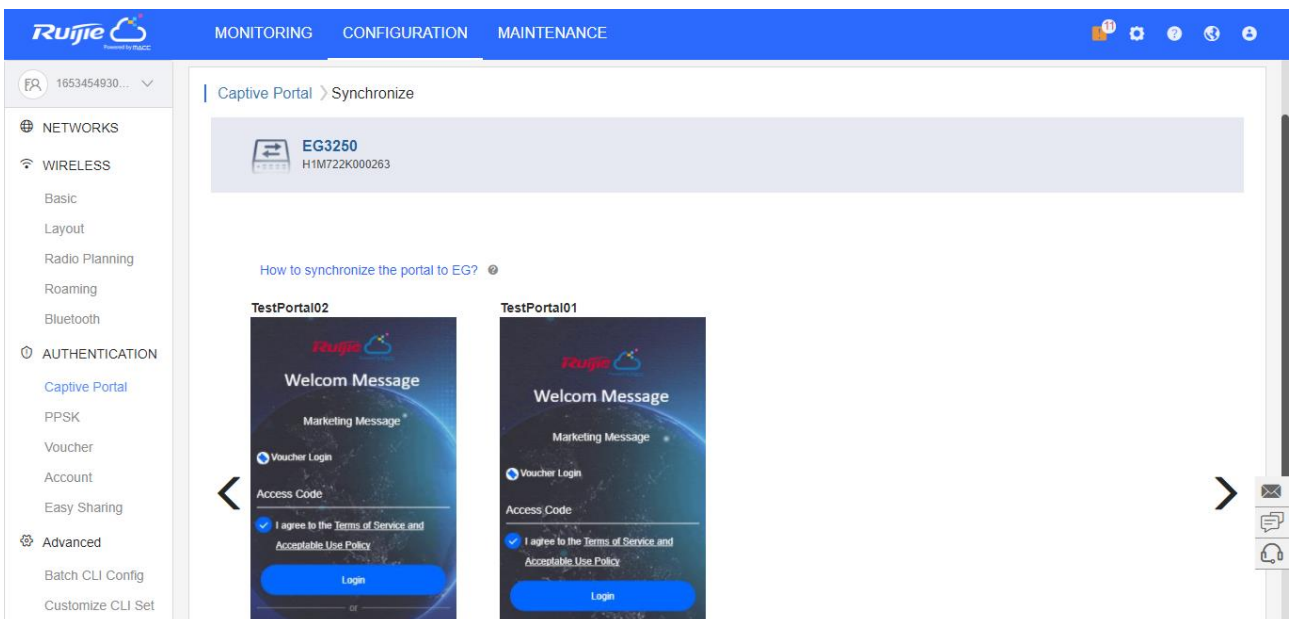
### 6.3.1.4 Apply to EG


Click  to synchronize the captive portal template to the EG.

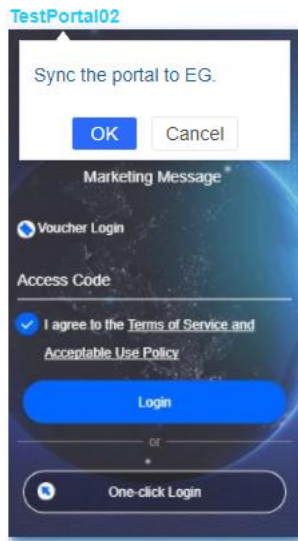
If no EG exists in the current network, you can click  to open the **MONITORING > DEVICE > Gateway** page.



If there is an EG in the current network, the page is displayed as below:



Only 1 template can be synchronized to an EG. Select a template and click .

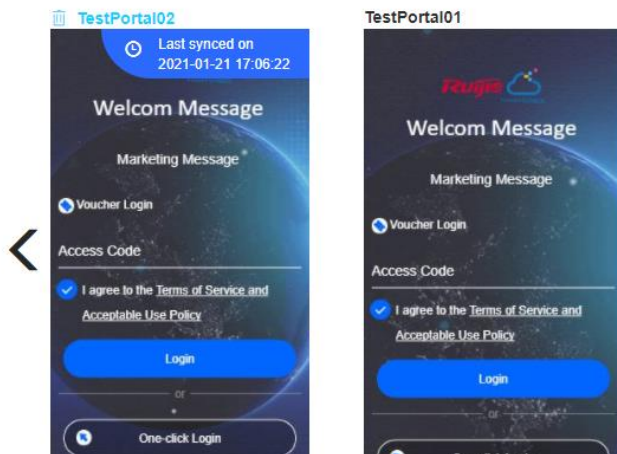


After the template is applied, the date of last synchronization will be displayed above.

| Captive Portal > Synchronize

 **EG3250**  
H1M722K000263

How to synchronize the portal to EG? 



## 6.3.2 PPSK

### 6.3.2.1 PPSK Authentication

PPSK combines the advantages of PSK and 802.1x. It prevents the network from being stolen. Each terminal device is bound with a unique WiFi account and key so that the key will not be shared. This is called “One Client, One Password”.


The main tasks of the PPSK administrator:

- Log in to Ruijie Cloud and deploy the network so that APs can access the Ruijie Cloud.
- Set the authentication mode of SSID to PPSK (the administrator can do it directly).

- On the **PPSK Configuration** page, an enterprise can enable the PPSK function and choose the network.
- Open account for staffs in batches.

Staffs can connect to the SSID with a unique WiFi key allocated by the administrator and access the Internet.

### 6.3.2.2 Configuration Steps

1. Choose **CONFIGURATION > WIRELESS > Basic**, click  , and set the **Encryption Mode** as **PPSK**.

SSID
✕

WLAN ID

SSID

Encryption Mode

5G-Prior Access

Speed Limit per Client

Speed Limit by SSID

Auth

More ▾

Hidden

Forward Mode

["NAT Address Pool Configuration"](#)


Radio  Radio1(2.4GHz)  Radio2(5GHz)

Radio3 (2.4GHz or 5GHz)

2. Choose **CONFIGURATION > AUTHENTICATION > PPSK**.
3. Click **Add** to batch import or manually add new accounts.

Add Account
✕

Download and fill in the template. Up to 1500 records can be imported



4. Click the view button on the Action column of the PPSK list to check PPSK Sync Log.

PPSK Sync Log
✕

● Synced: 0 ● Syncing: 0 ● Unsupported: 1 ● Failed: 0

SN	Status	Updated
G1KD9HH02861B	NOT_CONFIG_SSID	2019-04-15 21:00:41

Page 1 of 1


10
1 in total



- Bind MAC address for accounts in the PPSK list.

PPSK

<input type="checkbox"/>	Account	Client MAC	WiFi Key	Created at	Action
<input type="checkbox"/>	ATest02	<input type="text" value="Format:ffff.ffff.ffff"/> <input type="button" value="Bind"/>	2r4h4yg	2020-12-30 06:10:34	<input type="button" value="Print"/> <input type="button" value="Delete"/>
<input type="checkbox"/>	ATest01	<input type="text" value="Format:ffff.ffff.ffff"/> <input type="button" value="Bind"/>	v3ix7s3z	2020-12-30 06:10:00	<input type="button" value="Print"/> <input type="button" value="Delete"/>

Page  of 1

2 in total

## 6.3.3 Voucher

### 6.3.3.1 Voucher Authentication

Voucher authentication on Ruijie Cloud allows you to charge users for accessing wireless network by access codes. Concurrent users, time period and data quota limit can be customized and offered to your guests.

### 6.3.3.2 Configuration Steps

- Enable **Voucher** function in the **Captive Portal** mode of **SSID** under the corresponding network.
- Select **CONFIGURATION > AUTHENTICATION > Voucher**.
- Select **Manage Package > Add Package** to define a voucher type for your guests.

Add Package

Package Name

Description

Price

Concurrent Devices

Bind MAC

Period

Data Quota

Download Speed

Upload Speed

- Click **OK** to go back to the **Voucher** page and click **Print Voucher**.

Voucher 🔄 📄 🗃️ ⌵ 🗑️

● Total Vouchers: 62 ● Activated Vouchers: 0 ● Depleted Vouchers: 0

<input type="checkbox"/>	Voucher Code	Alias	Package Name	Price	Period	Created at	Expired at	Devices	Bind MAC	Data Usage	Download Speed	Upload Speed	Status
<input type="checkbox"/>	88ww3e	11	123	-	30 Minutes	2020-12-30 15:29:30	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	xik8xs	11	123	-	30 Minutes	2020-12-30 15:29:30	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	gp8csf	11	123	-	30 Minutes	2020-12-30 15:29:30	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	e5r4bj	11	123	-	30 Minutes	2020-12-30 15:29:30	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	w6gyey	11	123	-	30 Minutes	2020-12-30 15:29:30	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	jmqavk	11	123	-	30 Minutes	2020-12-30 13:59:26	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	n8azgj	11	123	-	30 Minutes	2020-12-30 13:57:56	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	6pnh3p	11	123	-	30 Minutes	2020-12-28 16:29:57	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	hl2osk	11	123	-	30 Minutes	2020-12-28 16:29:49	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated
<input type="checkbox"/>	xnvs2r	11	123	-	30 Minutes	2020-12-28 16:29:49	-	0/7	Yes	0 MB/100 MB	64 Kbps	Unlimited	Not Activated

Page  of 7



 62 in total

5. Support customizing the logo and profile information for voucher printing.

Voucher > Print Voucher

Print Configuration

\* Quantity

Alias

\* Package  [Manage Package](#)

Logo

Text  0/40

Print Method

Profile Information on Voucher

You can select at most 4 parameters for the voucher.

Package Name  
123

Concurrent Devices  
7

Data Quota  
100 MB

Upload Speed  
Unlimited

Bind MAC  
Yes

Period  
30 Minutes

Download Speed  
64 Kbps

Preview

Voucher Code  
**XXXXXX**

Package Name <b>123</b>	Concurrent Devices <b>7</b>
Period <b>30 Minutes</b>	Data Quota <b>100 MB</b>

6. Click the **Print** button.

### 6.3.3.3 Bind/Unbind MAC

If **Bind MAC** is enabled for the package, the voucher code used by a device will be bound with its MAC address. The number of bound MAC can be set in **Max Concurrent Devices**. When the **Status** is **Activated** or **Depleted**, you can click in the **Bind MAC** column to unbind MAC addresses.

Voucher

Print Voucher Manage Package More

Total Vouchers: 22 Activated Vouchers: 1 Depleted Vouchers: 1

Voucher Code, Alias, Pack: Q Advanced Search

<input type="checkbox"/>	Voucher Code	Alias	Package Name	Price	Period	Created at	Expired at	Devices	Bind MAC	Data Usage	Download Speed	Upload Speed	Status
<input type="checkbox"/>	8ayhgn	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	2021-01-25 14:42:50	1/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Activated
<input type="checkbox"/>	cw214m	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	nb2ujr	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	nwg54d	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	wyecgv	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	hohnx8	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	2nj5c	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	zpo8rx	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	jxohdu	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated
<input type="checkbox"/>	tin7oa	-	123	100,000,000.00	30 Minutes	2021-01-25 14:11:50	-	0/1	Yes	0 MB/100 MB	Unlimited	Unlimited	Not Activated

## Bound MAC Address List

Unbind

<input type="checkbox"/>	MAC	Bound at	Total Online Time	Total Traffic	Action
<input type="checkbox"/>	48fd.a3f1.4ef5	2021-01-25 14:12:50	0d 0h 0m 0s	0M	

First Previous Page 1 of 1 Next Last

10 1 in total

## 6.3.4 Account

### 6.3.4.1 Account Authentication

Account authentication requires the valid account and password. Concurrent users, time period and data quota limit can be customized and offered to your guests.

### 6.3.4.2 Configuration Steps

1. Enable **Captive Portal** in the **SSID** page, and select a template with Account Authentication.
2. Select **CONFIGURATION > AUTHENTICATION > Account**.
3. Select **Manage Profile > Add Profile** to define an account type for your guests.

Add Profile

Profile Name  \*

Description

Concurrent Devices

Period

Data Quota

Download Speed

Upload Speed

OK Cancel

4. Click **OK** to go back to the **Account** page and click **Add Account**.

Account

● Total Account: 2
 ● Activated Accounts: 0
 ● Depleted Accounts: 0

<input type="checkbox"/>	Account	Alias	Password	Profile Name	Period	Created at	Expired at	Devices	Data Usage	Download Speed	Upload Speed	Status	Action
<input type="checkbox"/>	123	-	*****	123	30 Minutes	2020-12-31 14:17:40	-	0/3	0 MB/100 MB	Unlimited	Unlimited	Not Activated	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	12345	-	*****	123	30 Minutes	2020-12-31 14:17:32	-	0/3	0 MB/100 MB	Unlimited	Unlimited	Not Activated	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Page  of 1
 

10  in total

5. Click Add an Account, enter the account and password, select the package, and click **Save**.

Add Account ×

Step1: Select the profile.

Profile

---

Step2: Download and fill in the template. Up to 500 records can be imported  
 Account and Password fields are required. Alias field is optional.  
 Please enter less than 32 characters, consisting of letters, numbers or underscores.

---

Add Account ×

Account

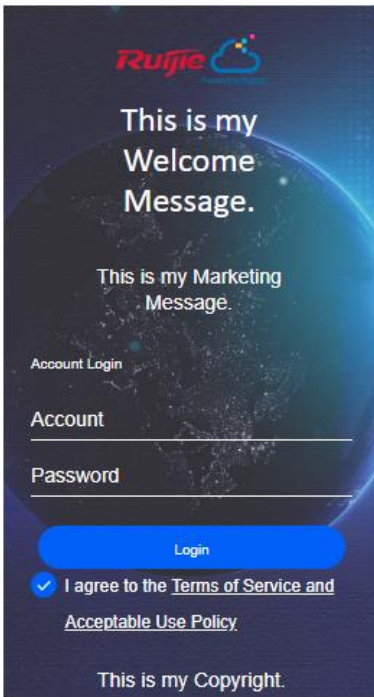
Password

Profile

Alias

Description: -  
 Max Concurrent Devices: 3  
 Period: 30 Minutes  
 Data Quota: 100 MB  
 Download Speed: Unlimited  
 Upload Speed: Unlimited

6. Connect to the SSID, select **Account Login** in the pop-up page, enter the account and password created in the last step, and click **Login**.



## 6.3.5 Easy Sharing

### 6.3.5.1 Share

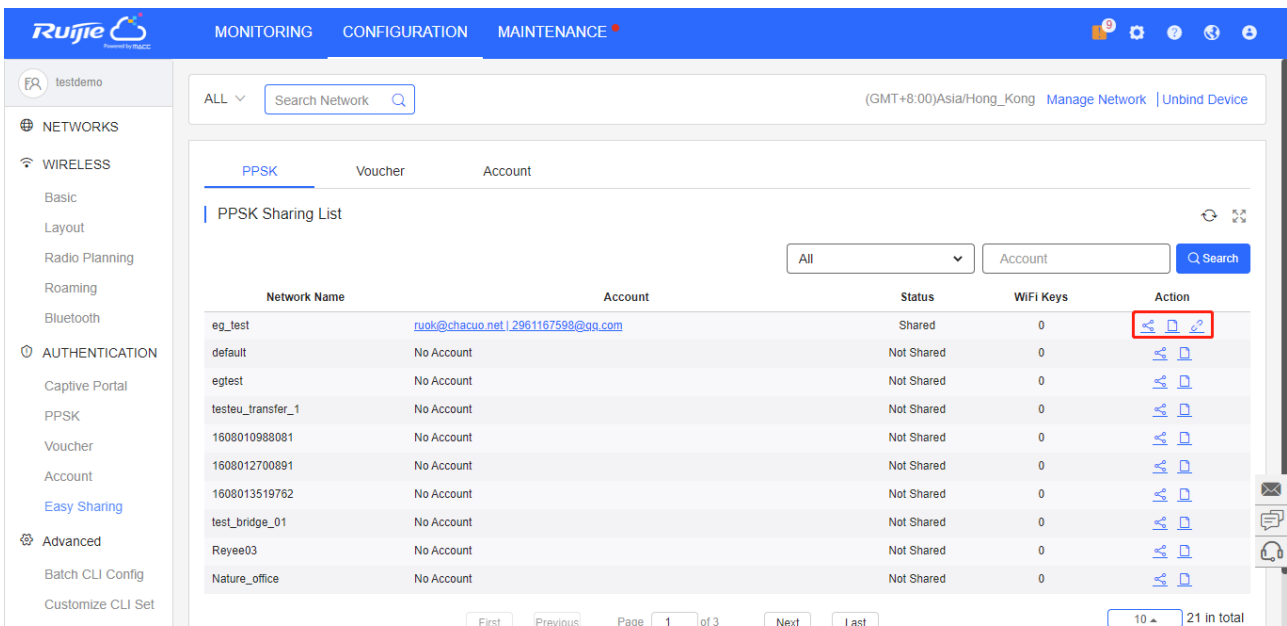
You can share the PPSK, voucher and account to other users by using a sharing link.


The screenshot shows the Ruijie configuration interface. The top navigation bar includes "MONITORING", "CONFIGURATION", and "MAINTENANCE". The left sidebar has "NETWORKS" and "AUTHENTICATION" sections. The main content area is titled "PPSK Sharing List" and contains a table with the following data:

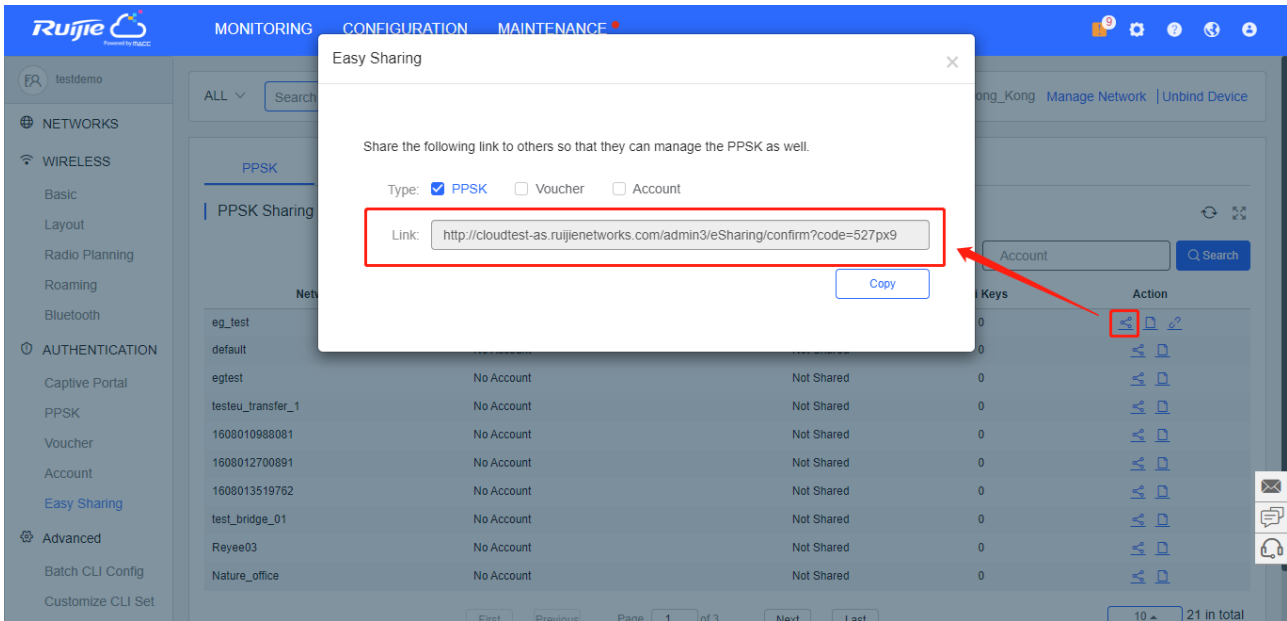
Network Name	Account	Status	WiFi Keys	Action
eg_test	<a href="mailto:ruok@chacuo.net">ruok@chacuo.net   2961167598@qq.com</a>	Shared	0	[Share] [Cancel] [Logs]
default	No Account	Not Shared	0	[Share] [Cancel] [Logs]
egtest	No Account	Not Shared	0	[Share] [Cancel] [Logs]
testeu_transfer_1	No Account	Not Shared	0	[Share] [Cancel] [Logs]
1608010988081	No Account	Not Shared	0	[Share] [Cancel] [Logs]
1608012700891	No Account	Not Shared	0	[Share] [Cancel] [Logs]
1608013519762	No Account	Not Shared	0	[Share] [Cancel] [Logs]
test_bridge_01	No Account	Not Shared	0	[Share] [Cancel] [Logs]
Reyee03	No Account	Not Shared	0	[Share] [Cancel] [Logs]
Nature_office	No Account	Not Shared	0	[Share] [Cancel] [Logs]

The "Account" column for the first row is highlighted with a red box. The "Action" column contains icons for sharing, canceling, and viewing logs. The interface also shows a search bar and pagination controls at the bottom.

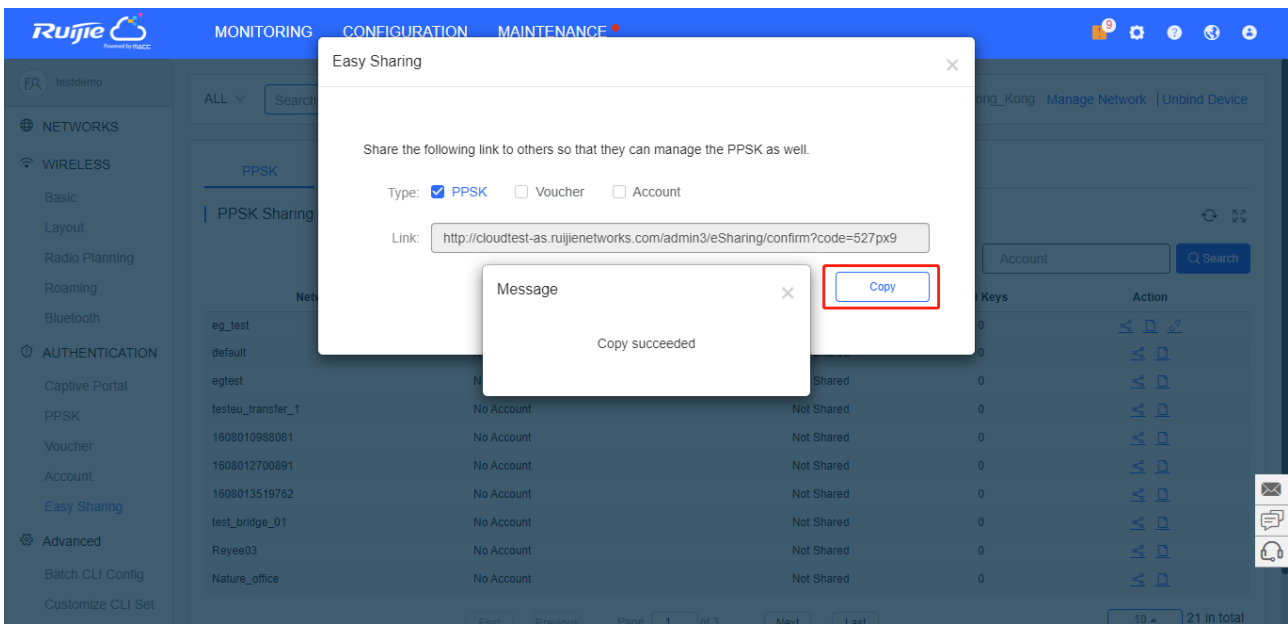
Click the icons in **Action** column to share PPSK, cancel sharing or check sharing logs.



Click  in the **Action** column to generate an Easy Sharing link.



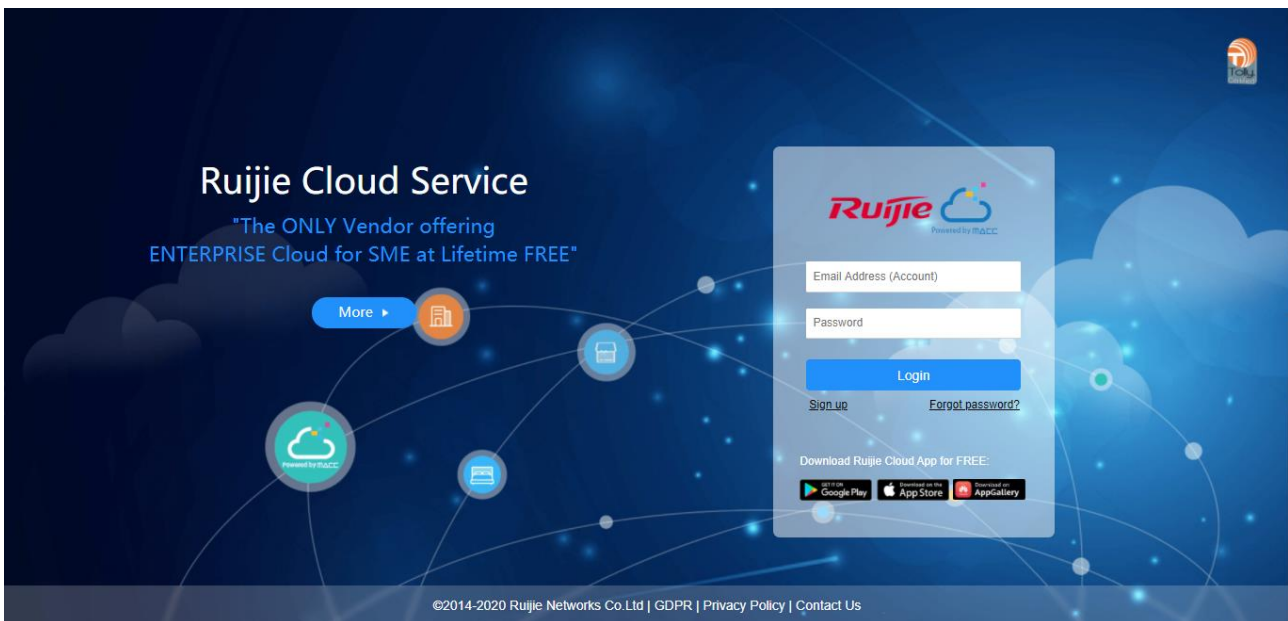
Click **Copy** to copy the sharing link.



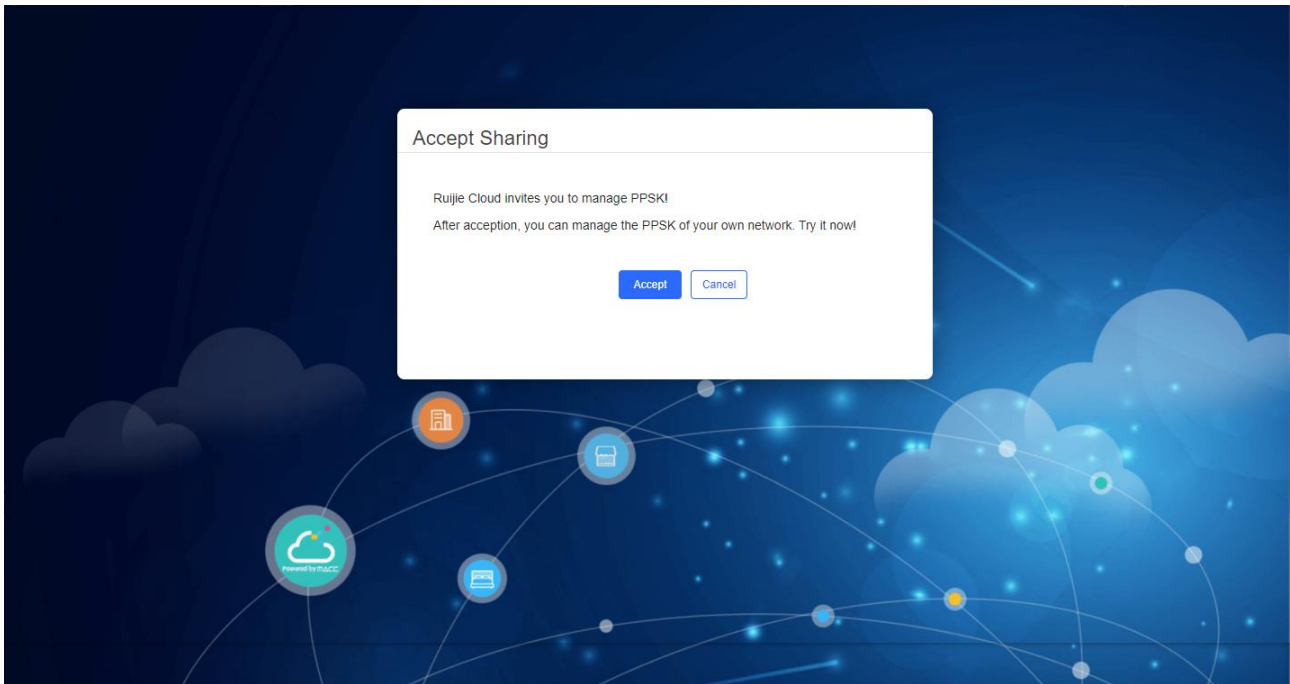
The operation of sharing vouchers and accounts are similar.

### 6.3.5.2 Receive

Visit the sharing link, and log in to Ruijie Cloud first.



After login, the **Accept Sharing** page will be displayed.



After accepting the PPSK, the PPSK management page will be displayed.

 The screenshot shows the Ruijie Cloud Configuration interface. The left sidebar has "AUTHENTICATION" expanded, with "PPSK" selected and highlighted by a red box. The main content area shows the "PPSK" management page. At the top, there is a tip: "Tip: Please disable Private MAC when using PPSK on iOS 14." Below the tip, there are "Add" and "Delete" buttons. A search bar contains "Account" and "Client MAC" with a "Search" button. A table lists PPSK entries with columns for Account, Client MAC, WiFi Key, Created at, and Action.
 

	Account	Client MAC	WiFi Key	Created at	Action	
<input type="checkbox"/>	432423	Format:ffff.ffff.ffff	Bind	678r9bmy	2020-11-10 10:42:22	
<input type="checkbox"/>	test_ppsk_03	Format:ffff.ffff.ffff	Bind	6xgwmysf	2020-11-13 03:57:35	
<input type="checkbox"/>	13	3333.3333.3333		ckuyv4g4	2020-11-06 09:15:50	
<input type="checkbox"/>	21	Format:ffff.ffff.ffff	Bind	dl4rsh5m	2020-11-06 09:15:50	
<input type="checkbox"/>	17	Format:ffff.ffff.ffff	Bind	f4p5cptr	2020-11-06 09:15:50	
<input type="checkbox"/>	123	Format:ffff.ffff.ffff	Bind	f569qa4m	2020-11-06 09:16:57	
<input type="checkbox"/>	18	Format:ffff.ffff.ffff	Bind	fbhqs7y	2020-11-06 09:15:50	
<input type="checkbox"/>	33	Format:ffff.ffff.ffff	Bind	fc3loxtr	2020-11-06 09:15:11	
<input type="checkbox"/>	12	Format:ffff.ffff.ffff	Bind	fx3ahpa6	2020-11-06 09:15:40	
<input type="checkbox"/>	22	Format:ffff.ffff.ffff	Bind	g99yqvuv	2020-11-06 09:15:50	

## 6.4 ADVANCED

### 6.4.1 Batch CLI Config

Ruijie Cloud supports configuring CLI commands on RGOS devices in batches.

#### 6.4.1.1 Batch CLI Config Status

You can check the configuration delivery status, or stop its delivery.



Note: The function is only supported on RGOS devices.

Batch CLI Config Status [How to batch configure CLI commands?](#)

**Add**

Time	Quantity	Success	Failure	Command	Action
2021-03-26 16:39:30	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>
2021-03-26 16:38:12	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>
2021-03-26 15:06:30	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>

First Previous Page 1 of 1 Next Last 10 3 in total

### 6.4.1.2 Batch Configure CLI Commands

To batch add the configuration to be delivered, Click **Add**.

Note: The function is only supported on RGOS devices.

Batch CLI Config Status [How to batch configure CLI commands?](#)

**Add**

Time	Quantity	Success	Failure	Command	Action
2021-03-26 16:39:30	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>
2021-03-26 16:38:12	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>
2021-03-26 15:06:30	1	1	0	<a href="#">Check</a>	<a href="#">Result</a> <a href="#">Stop</a>

First Previous Page 1 of 1 Next Last 10 3 in total

To apply the configuration to the specified devices, select the devices and click **Apply**; to deliver the configuration to all devices, click **Apply All**.

ALL Search Network (GMT+9:00)Asia/Tokyo Manage Network | Unbind Device

Batch CLI Config

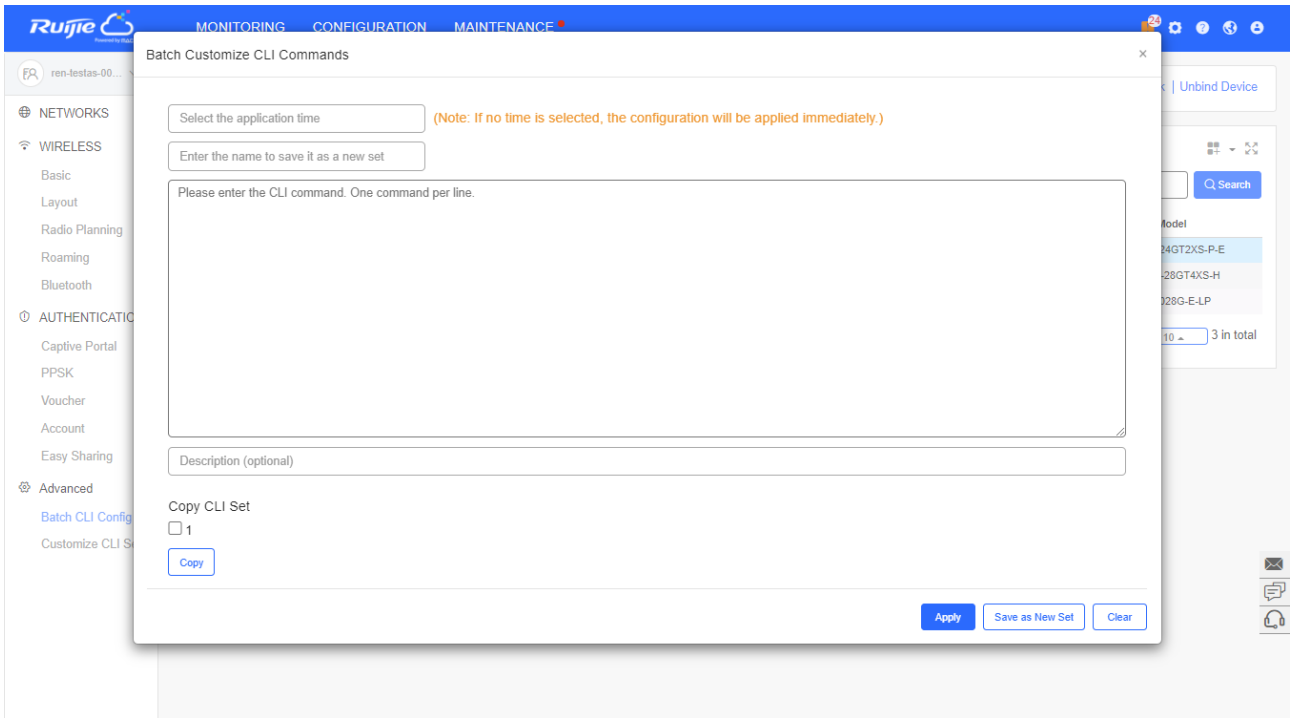
**Apply** **Apply All** Return

Switch Firmware Version Model Search

<input type="checkbox"/>	Status	Network	Description	SN	Firmware Version	Model
<input type="checkbox"/>	Offline	Secen_egw_001		G1LV742000025	S2910_RGOS 11.4(1)B1P6, Release(04150718)	S2910C-24GT2XS-P-E
<input type="checkbox"/>	Offline	ES224		G1PT3Y300035B	S5700H_RGOS 11.4(1)B70P1	S5750C-28GT4XS-H
<input type="checkbox"/>	Not Online Yet	AP730TR		G1LQ8EQ000234	NBS_RGOS 11.4(1)B41T1, Release(06160914)	NBS2028G-E-LP

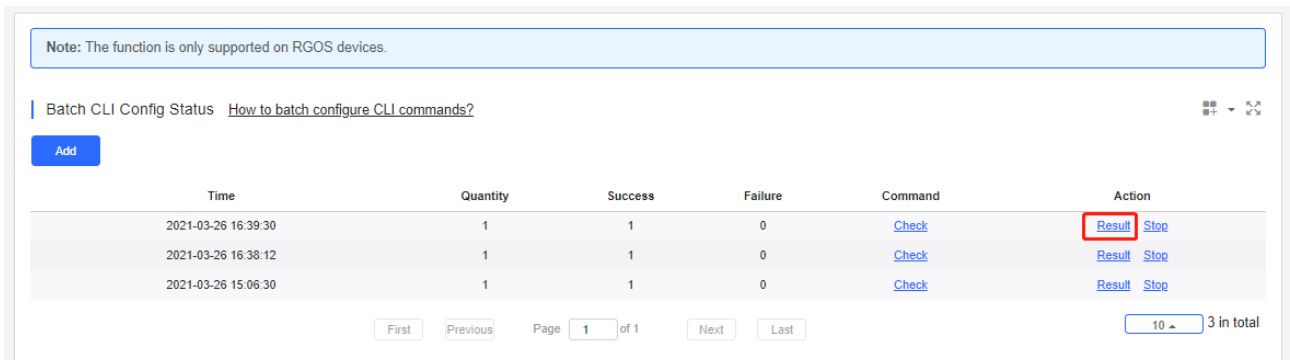
First Previous Page 1 of 1 Next Last 10 3 in total

Set the application time, enter commands or select the existing command sets, and click **Apply**.



### 6.4.1.3 Check Result

You can click **Result** in the **Action** column to check the delivery result.



### 6.4.2 Customize CLI Set

You can add, delete or edit the existing command sets which can be used in batch configuration.

**Note:** The function is only supported on RGOS devices.

Customize CLI Set [How to batch configure CLI commands?](#)

+ Add

**Customized CLI**

Show configuration of device

[Edit](#) [Delete](#)

The screenshot shows the Ruijie configuration web interface with a blue header containing 'MONITORING', 'CONFIGURATION', and 'MAINTENANCE'. A left sidebar lists menu items like NETWORKS, WIRELESS, and AUTHENTICATED. A central 'Add' dialog box is open, containing the following fields and options:

- Input field: "Enter the name to save it as a new set"
- Text area: "Please enter the CLI command. One command per line."
- Input field: "Description (optional)"
- Section: "Copy CLI Set" with a checkbox and the value "1"
- Button: "Copy"
- Buttons: "Save" and "Clear" at the bottom right.

### 6.4.3 AP VLAN

Reyee APs support batch VLAN configuration (RAP1200(F)/RAP1200(P)). You can filter APs by model, SN etc, and configure the port type and VLAN ID.

The screenshot shows the Ruijie Cloud web interface for configuring an AP Port VLAN. The top navigation bar includes 'MONITORING', 'CONFIGURATION', and 'MAINTENANCE'. The left sidebar lists various configuration categories: NETWORKS, WIRELESS (Basic, Layout, Radio Planning, Roaming, Bluetooth), AUTHENTICATION (Captive Portal, PPSK, Voucher, Account, Easy Sharing), and ADVANCED (Batch CLI Config, Customize CLI Set, AP VLAN). The main content area is titled 'AP Port VLAN' and contains a note: 'Note: The LAN port configuration is only supported on panel EAP/RAP in AP mode with P32 or a higher version.' Below the note, the 'Model' is set to 'RAP1200(F)'. The 'Device' section shows a search box for 'Device alias, SN or IP' with '(0 Selected)' and a checkbox for 'Display Never Configured Devices'. A table with columns 'Alias', 'SN', 'IP', 'Model', and 'Last Configuration Time' is currently empty, displaying 'No Data'. The 'Configuration' section includes a 'Port Type' dropdown set to 'Access', a 'VLAN ID' input field with '1-232 or 234-4090', and a 'Selected Ports' section with 'Selected' and 'Not Selected' indicators. A visual representation of the LAN port is shown with a small black square icon. At the bottom, there are 'Clear' and 'Apply' buttons.

## 7 Maintenance




The **Maintenance** module mainly provides the following functional services:

- LOGS
- UPGRADE











### 7.1 LOGS

#### 7.1.1 Operation Log


This page shows operation logs.

Operation Log   

Started at  Ended at  [Q Search](#)

Time	Operator	Type	Description	Result	Result Description	Action
2021-01-11 16:20:50	testdemo	Device	Delete [1] devices including [G1KQAJ7016315]	Success	Delete succeeded	
2021-01-11 15:56:37	testdemo	Device	Device [G1MV35M000029] executes the command: [show run].	Success	OK.	
2021-01-11 15:56:24	testdemo	Config	[Device: G1MV35M000029;Port ID: [Te0/26];Whether th...]	Success	OK.	
2021-01-11 15:56:16	testdemo	Device	Device [G1MV35M000029] executes the command: [show run].	Success	OK.	
2021-01-11 15:56:06	testdemo	Config	[Device: G1MV35M000029;Port ID: [Te0/26];Whether th...]	Success	OK.	
2021-01-11 15:55:55	testdemo	Device	Device [G1MV35M000029] executes the command: [show run].	Success	OK.	
2021-01-11 15:55:42	testdemo	Config	[Device: G1MV35M000029;Port ID: [Te0/26];Whether th...]	Success	OK.	
2021-01-11 15:55:27	testdemo	Device	Device [G1MV35M000029] executes the command: [show run].	Success	OK.	
2021-01-11 15:55:14	testdemo	Config	[Device: G1MV35M000029;Port ID: [Te0/26];Whether th...]	Success	OK.	
2021-01-11 14:33:57	testdemo	Device	Account [] unbind the device [H1MSC0M000172] of tenant []	Success	Unbind device success!	

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[Previous](#)
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[Next](#)
[Last](#)
 710 in total

Click  to check log details.

General operation log details are shown as follows:

#### Message Details ✕

Time : 2017-10-25 17:52:50

User : hill

Type : Login

Description : Log in successfully

Result : Success

Result Description : OK.

## 7.1.2 Config Log

### 7.1.2.1 Action View

Action View 🔄 ⌵ ⌵ ⌵

	Operation Type	Started at	Ended at	Status	Devices	Result	Description
+	Update RLDP config	2021-01-11 22:11:25	2021-01-11 22:11:32	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device [G1MV35M000029], global ...
+	Update template	2021-01-11 16:58:36	2021-01-11 16:58:36	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: 1608010988081_Auto Gen...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:59	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:59	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:59	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:58	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:58	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:58	2021-01-11 16:44:58	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...
+	Update template	2021-01-11 16:44:57	2021-01-11 16:44:58	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: TestNetwork2_Auto Gener...

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 314 in total

The configuration logs record the information about configuration changes and pushing in three levels. In the figure, the first level records operation types that cause the configuration change or configuration pushing. The operation types include: apply templates, update templates, switch templates, and version upgrade. In addition, the first-level logs also record the running status statistics and some parameters.

1. Click **+** to check APs involved by the operation type.

SN	Started at	Ended at	Result	Config	Action
G1MV35M000029	2021-01-11 22:11:25	2021-01-11 22:11:32	Succeeded		

Page  of 1  

 1 in total

2. Click the rightmost action column () of the second-level logs to check the push status of each configuration item. The following figure shows an example of full configurations, including the configuration execution status of SSID, Radio and so on.

Config Execution List ✕

Config Item	Started at	Ended at	Status	Message
RLDP Configuration;(Edit)	2021-01-11 22:11:26	2021-01-11 22:11:33	Succeeded	

Page  of 1  

 1 in total

### 7.1.2.2 Device View

Device View

SN  Advanced Search

Device SN	Operation Type	Started at	Ended at	Status	Action
G1MV35M000029	Update RLDP config	2021-01-11 22:11:25	2021-01-11 22:11:32	Succeeded	
G1MV35M000029	Switch config	2021-01-11 15:56:24	2021-01-11 15:56:26	Succeeded	
G1MV35M000029	Switch config	2021-01-11 15:56:06	2021-01-11 15:56:10	Succeeded	
G1MV35M000029	Switch config	2021-01-11 15:55:42	2021-01-11 15:55:54	Succeeded	
G1MV35M000029	Switch config	2021-01-11 15:55:14	2021-01-11 15:55:19	Succeeded	
G1MV35M000029	Update CWMP period	2021-01-08 17:33:08	2021-01-08 17:33:09	Succeeded	
G1MV35M000029	Switch device group	2021-01-08 17:30:12	2021-01-08 17:30:18	Succeeded	
G1MV35M000029	Configure device name	2021-01-08 17:30:12	2021-01-08 17:30:15	Succeeded	
G1MV35M000029	Switch config	2021-01-08 17:14:43	2021-01-08 17:14:50	Succeeded	
G1MV35M000029	Device first online	2021-01-08 17:01:30	2021-01-08 17:01:59	Succeeded	

First Previous Page 1 of 5 Next Last 10 43 in total

Click the rightmost action column () of the second-level logs to check the push status of each configuration item.

The following figure shows an example of full configurations, including the configuration execution status of SSID, Radio and so on.

Config Execution List

All   Search

Config Item	Started at	Ended at	Status	Message
RLDP Configuration;(Edit)	2021-01-11 22:11:26	2021-01-11 22:11:33	Succeeded	

First Previous Page 1 of 1 Next Last 10 1 in total

### 7.1.2.3 Config Log

You can select **Recent Log** to check the configuration logs in the past 7 days.

**Ruijie** MONITORING CONFIGURATION MAINTENANCE

ren-testas-00... Action View 2021/08/20 10:48:57 2021/08/27 10:48:57 Search

LOG  
 Operation Log  
 Config Log  
 Upgrade Log  
 UPGRADE  
 Upgrade 5  
 Firmware

Operation Type	Started at	Ended at	Status	Devices	Result	Description
Update LAN config	2021-08-27 08:45:50	2021-08-27 08:45:50	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016
Update LAN config	2021-08-27 08:31:56	2021-08-27 08:31:56	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016
Update LAN config	2021-08-27 08:31:55	2021-08-27 08:31:55	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016
Update LAN config	2021-08-27 08:31:53	2021-08-27 08:31:53	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016
Update LAN config	2021-08-27 08:28:46	2021-08-27 08:28:46	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016
Update LAN config	2021-08-27 08:25:53	2021-08-27 08:25:54	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: H1NW5JK071016

## 7.1.3 Upgrade Log

This part provides the upgrade tracing function, and enables checking upgrade status, aborting the upgrade, and retry.

Upgrade Log 🔄 ⌵ ⌵

Started at  Ended at  🔍 Search

Operator	Description	Target Version	Process	Created at	Result (Success/Failure/Aborted)	Action
testdemo	Upgrade selected1 device(s)	AC_RGOS 11.9(5)B1, Release(06240613)	<div style="width: 100%;"></div> 0 / 1	2021-01-11 10:35:29	0 / 0 / 0	
testdemo	Upgrade selected1 device(s)	EG_3.0(1)B11P30,Release(07201401)	<div style="width: 100%;"></div> 1 / 1	2020-12-09 17:44:09	1 / 0 / 0	
testdemo	Upgrade selected1 device(s)	AP_3.0(1)B11P35,Release(07240700)	<div style="width: 100%;"></div> 1 / 1	2020-12-07 20:47:44	1 / 0 / 0	
testdemo	Upgrade selected2 device(s)	AP_3.0(1)B2P28,Release(07220919)	<div style="width: 100%;"></div> 2 / 2	2020-11-25 14:53:57	2 / 0 / 0	
testdemo	Upgrade selected1 device(s)	EG_3.0(1)B11P30,Release(07181202)	<div style="width: 100%;"></div> 1 / 1	2020-11-25 11:12:30	1 / 0 / 0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	<div style="width: 100%;"></div> 1 / 1	2020-11-20 09:28:26	1 / 0 / 0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	<div style="width: 100%;"></div> 1 / 1	2020-11-19 20:43:56	1 / 0 / 0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	<div style="width: 100%;"></div> 1 / 1	2020-11-19 19:47:54	1 / 0 / 0	
testdemo	Upgrade selected1 device(s)	S19_RGOS 11.4(1)B42P17	<div style="width: 100%;"></div> 1 / 1	2020-11-19 15:21:42	0 / 0 / 1	
testdemo	Upgrade selected1 device(s)	AP_RGOS 11.1(9)B1P21, Release(06211815)	<div style="width: 100%;"></div> 1 / 1	2020-11-19 14:35:53	1 / 0 / 0	

First Previous Page 1 of 24 Next Last
10 ▲ 238 in total

Click to check log details.

Click to top the upgrade task if the upgrade command has not been pushed.

Click to restart the upgrade task that failed or was aborted.

Details ✕

🔍 Search

SN	Upgrade Status	Retry Times	Started at	Ended at	Description	Action
1234942570021	Offline	0			Device is offline	

First Previous Page 1 of 1 Next Last
10 ▲ 1 in total

Click to restart the upgrade task.

Click to stop the upgrade task.

**Abort:** You cannot stop the upgrade task if the upgrade command has been pushed to the AP.

**Retry:** You can only restart the failed or aborted upgrade task.

## 7.2 UPGRADE

The following tab pages are provided for device firmware management:

- Upgrade
- Firmware



## 7.2.1 Upgrade

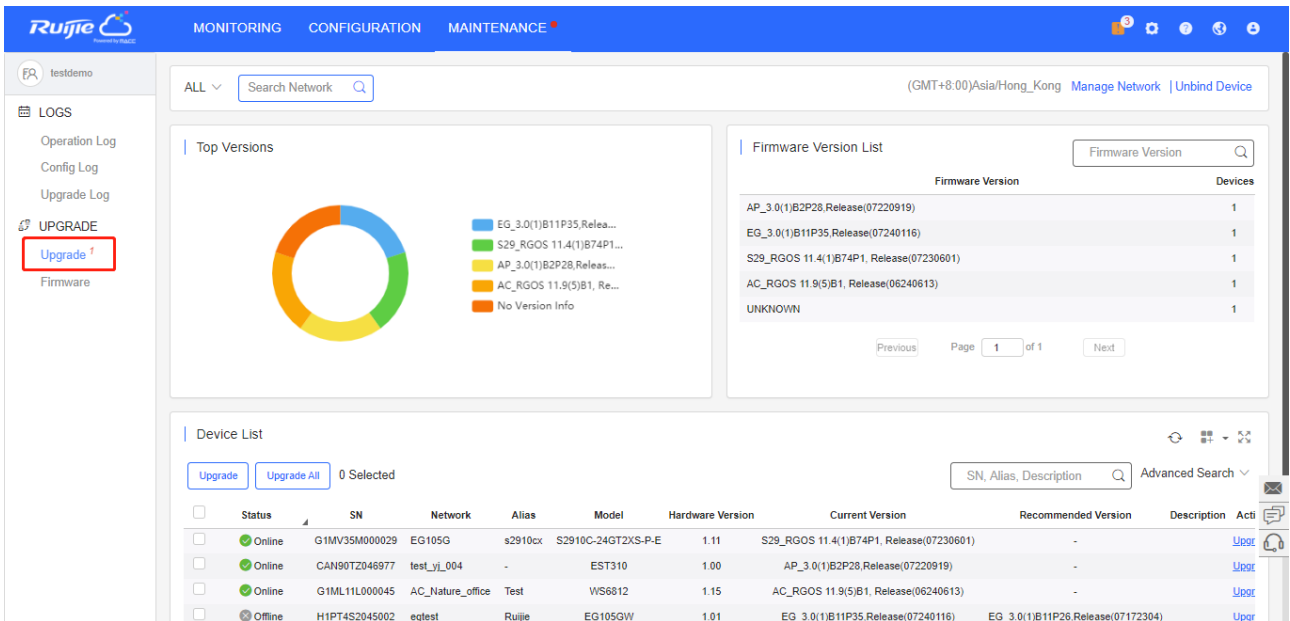
Ruijie Cloud supports the online upgrade of device firmware, and allows network administrators to utilize the latest features and security enhancement for Ruijie devices. Online upgrade allows administrators to easily arrange the firmware upgrade in their networks and view firmware releases.

The following ways are available to check whether there is a new version for the device:

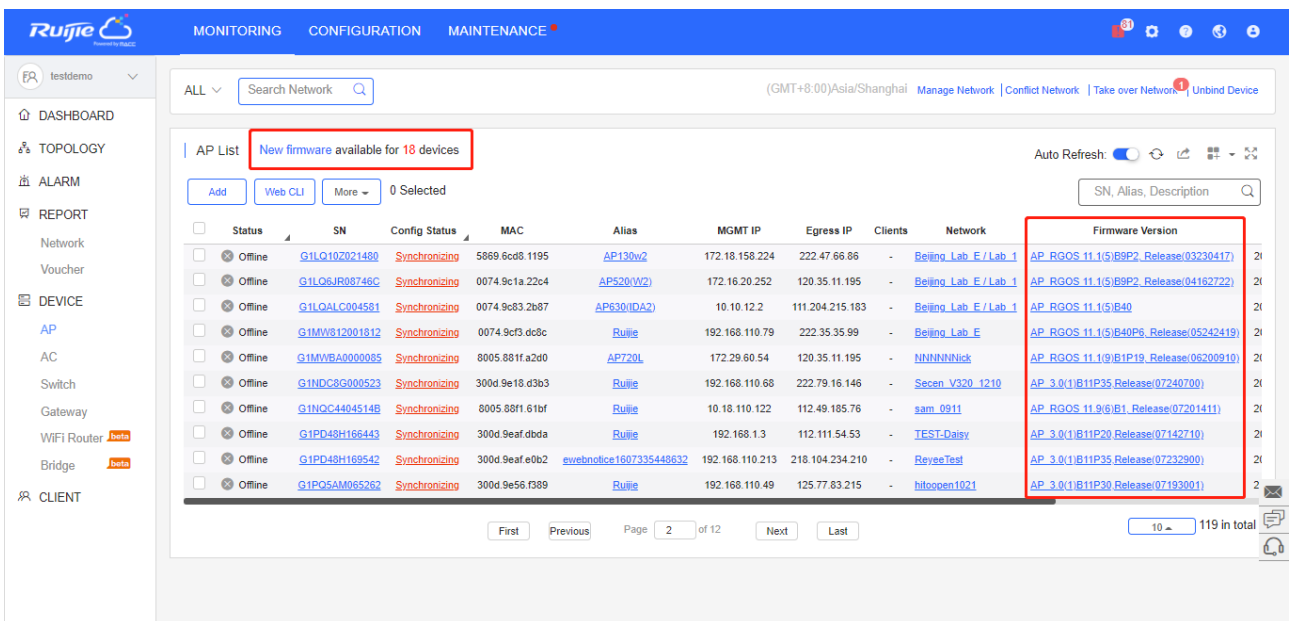
- 1) **MAINTENANCE** Menu (for all devices)



- 2) **Upgrade** in the Navigation Bar (for all devices)



- 3) **AP List, Switch List and Gateway List** (for devices in the network)



### 7.2.1.1 Check Version Information

Choose **Maintenance > Upgrade** to display the top 5 versions in pie chart form and a list for each network.

ALL ▾

(GMT+8:00)Asia/Hong\_Kong [Manage Network](#) | [Unbind Device](#)

Top Versions

- EG\_3.0(1)B11P35,Relea...
- S29\_RGOS 11.4(1)B74P1...
- AP\_3.0(1)B2P28,Releas...
- AC\_RGOS 11.9(5)B1, Re...
- No Version Info

Firmware Version List

Firmware Version	Devices
AP_3.0(1)B2P28,Release(07220919)	1
EG_3.0(1)B11P35,Release(07240116)	1
S29_RGOS 11.4(1)B74P1, Release(07230601)	1
AC_RGOS 11.9(5)B1, Release(06240613)	1
UNKNOWN	1

Page  of 1

Device List

0 Selected

Advanced Search ▾

<input type="checkbox"/>	Status	SN	Network	Alias	Model	Hardware Version	Current Version	Recommended Version	Description	Acti
<input type="checkbox"/>	Online	G1MV35M000029	EG105G	s2910cx	S2910C-24GTXS-P-E	1.11	S29_RGOS 11.4(1)B74P1, Release(07230601)	-		<a href="#">Upgr</a>
<input type="checkbox"/>	Online	CAN90T2046977	test_yi_004	-	EST310	1.00	AP_3.0(1)B2P28,Release(07220919)	-		<a href="#">Upgr</a>
<input type="checkbox"/>	Online	G1ML11L000045	AC_Nature_office	Test	WS6812	1.15	AC_RGOS 11.9(5)B1, Release(06240613)	-		<a href="#">Upgr</a>

### 7.2.1.2 Upgrade

Four ways are available to enter the **Upgrade** page:

1. Point to **MAINTENANCE**, and a link will appear. Click the link to enter the **Upgrade** page. The default network information is **All**.
2. On the **AP List**, **Switch List** or **Gateway List**, click **New firmware** to open **New Firmware List**. Then click **Go to Upgrade** to enter the **Upgrade** page, and select and upgrade devices by **Search**.

New Firmware List ✕

Model	Current Version	Hardware Version	Devices	Recommended Version	Action
AP720-L	AP_RGOS 11.1(9)B1P19, Release(06200910)	1.30	1	AP_RGOS 11.1(9)B1P21, Release(06211815)	<a href="#">Go To Upgrade</a>
RG-AP630(CD)	AP_RGOS 11.1(5)B9P11, Release(05152600)	1.20	1	AP_RGOS 11.1(5)B9P11T15, Release(06160216)	<a href="#">Go To Upgrade</a>
AP180	AP_RGOS 11.9(6)B1, Release(07201411)	2.00	1	AP_RGOS 11.9(4)B1, Release(06242719)	<a href="#">Go To Upgrade</a>
AP630(IDA)	AP_RGOS 11.1(5)B9P2, Release(04162721)	1.10	1	AP_RGOS 11.1(5)B9P11T15, Release(06160811)	<a href="#">Go To Upgrade</a>
RAP2200(F)	AP_3.0(1)B11P35,Release(07232900)	1.00	1	AP_3.0(1)B11P30,Release(07211302)	<a href="#">Go To Upgrade</a>
AP130(W2)	AP_RGOS 11.1(5)B9P2, Release(03230417)	1.01	1	AP_RGOS 11.1(5)B40P6, Release(06150511)	<a href="#">Go To Upgrade</a>
AP130(W2)	AP_RGOS 11.1(5)B40P9	1.00	1	AP_RGOS 11.1(5)B40P6, Release(06150511)	<a href="#">Go To Upgrade</a>
AP520(BT)	AP_RGOS 11.1(5)B9P11	1.00	1	AP_RGOS 11.1(5)B9P11, Release(05151211)	<a href="#">Go To Upgrade</a>
EAP602	AP_3.0(1)B2P30,Release(07201404)	1.00	1	AP_3.0(1)B2P30,Release(07211316)	<a href="#">Go To Upgrade</a>
RAP2200(E)	AP_3.0(1)B11P30,Release(07193001)	1.00	1	AP_3.0(1)B11P30,Release(07211302)	<a href="#">Go To Upgrade</a>

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 18 in total

The screenshot shows the 'Maintenance' section of the Ruijie management interface. On the left, there is a sidebar with 'UPGRADE' and 'Firmware' options. The main area features a donut chart representing firmware distribution and a table titled 'Firmware Version' with columns for version and device count. Below this is a 'Device List' section with search filters for 'Model' (AP720-L) and 'Current Version' (AP\_RGOS 11.1(9)B1F). A table below shows a single device with its status, SN, network, alias, model, hardware version, current version, and recommended version.

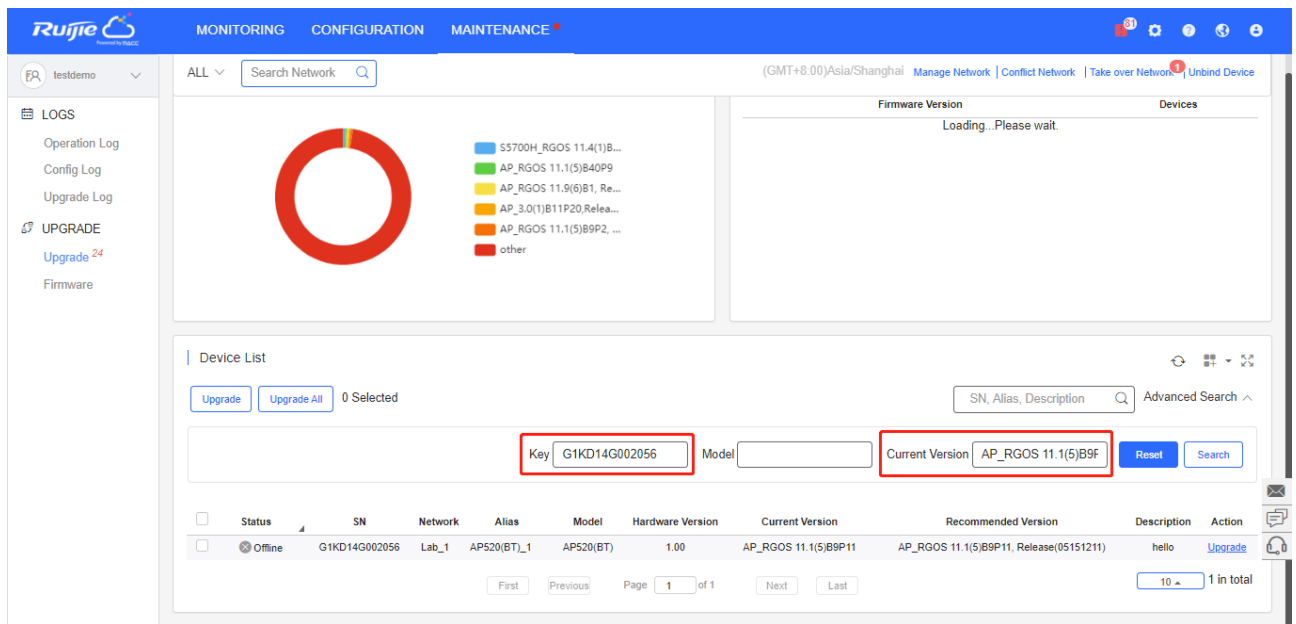
Firmware Version	Devices
UNKNOWN	111
AP_RGOS 11.1(9)B1P19, Release(06200910)	7
AP_3.0(1)B2P28, Release(07220919)	5
S29_RGOS 11.4(1)B42P1, Release(05172823)	4
AP_RGOS 11.1(9)B1P21, Release(06211815)	4

Status	SN	Network	Alias	Model	Hardware Version	Current Version	Recommended Version	Description	Action
Offline	G1MWBA0000085	NNNNNNick	AP720L	AP720-L	1.30	AP_RGOS 11.1(9)B1P19, Release(06200910)	AP_RGOS 11.1(9)B1P21, Release(06211815)		Upgrade

3. Check the **Firmware Version** in **AP List**, **Switch List** or **Gateway List**. If there is any new version, the link will turn into blue. Click the link to enter the **Upgrade** page, and select and upgrade devices by **Search**.

The screenshot shows the 'AP List' section of the Ruijie management interface. A notification at the top indicates 'New firmware available for 18 devices'. The table lists various AP devices with columns for status, SN, config status, MAC, alias, MGMT IP, egress IP, clients, network, firmware version, and offline time. One firmware version link is highlighted in blue, indicating a new update is available.

Status	SN	Config Status	MAC	Alias	MGMT IP	Egress IP	Clients	Network	Firmware Version	Off
Online	1234942512345	Synchronized	8005.88aa.004d	Ruijie12	192.168.1.203	125.77.81.217	-	test_m_001	AP_RGOS 11.1(9)B1P21, Release(06211815)	2021-0-
Online	123494257001C	Synchronized	8005.8808.f0c6	test_ap	192.168.1.174	125.77.81.217	-	test_vxob_01	AP_RGOS 11.1(9)B1P19, Release(06200910)	2021-0-
Online	G1MQ4XB002996	Synchronized	0074.9caa.1c79	Ruijie	172.30.83.195	218.104.234.210	-	esoluseap	AP_3.0(1)B2P17, Release(06222205)	2021-0-
Offline	1234942579876	Synchronized	00d0.f815.0848	Ruijie1	192.168.1.3	218.85.80.138	-	w	AP_3.0(1)B2P30, Release(07201404)	2020-0-
Offline	G1KD14G902056	Synchronizing	5869.6c5b.5031	AP520(BT)_1	192.168.100.7	111.204.215.185	-	Beijing_Lab_E//Lab_1	AP_RGOS 11.1(5)B9P11	2018-0-
Offline	G1KD705000947	Synchronizing	5869.6c75.feb5	AP630(IDA)	172.17.207.93	111.204.215.185	-	Beijing_Lab_E//Lab_1	AP_RGOS 11.1(5)B9P2, Release(04162721)	2018-0-
Offline	G1KD90T013366	Synchronizing	5869.6caa.f0b6	AP740-L	172.17.207.78	111.204.215.185	-	Beijing_Lab_E//Lab_1	AP_RGOS 11.1(5)B40P9	2018-11
Offline	G1KDA0T003812	Synchronizing	5869.6cb9.78e4	Leven_Test	10.10.10.102	117.27.89.209	-	Beijing_Lab_E//Lab_1	AP_RGOS 11.1(5)B9P2, Release(04141711)	2017-0-
Offline	G1KDAHJ052008	Synchronizing	5869.6cc1.96d0	AP130(W2)	172.17.185.67	111.204.215.182	-	Others / tel	AP_RGOS 11.1(5)B40P9	2018-1-
Offline	G1KQA29001083	Synchronizing	5869.6cb9.acd6	Outdoor_RG-AP630(CD)	172.17.207.89	111.204.215.181	-	Beijing_Lab_E	AP_RGOS 11.1(5)B9P11, Release(05152600)	2018-0-



4. Click **Go to Upgrade** in **Firmware List** to enter the **Upgrade** page, and select and upgrade devices by **Search**.

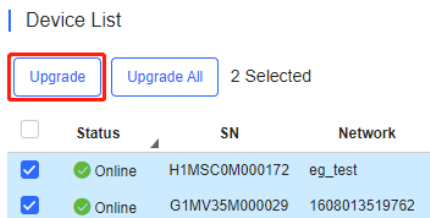
### 7.2.1.3 Upgrade Devices

For convenience, two upgrade modes are provided:

- **Upgrade Selected**

Upgrade one or multiple devices of one type. It is suitable for a scenario with a few devices to be upgraded.

1. Select one or multiple devices of one type, and click **Upgrade**.



2. Select a firmware version.

On the **Upgrade** page, you can check the device information and version, click **Select Firmware** to select the target version (the recommended version is the latest one), set scheduled upgrade and retry times accordingly, and click **Start Upgrade**.

Upgrade ×

Check in Maintenance > Log > Upgrade Log

[Start Upgrade](#) [Cancel](#)

Model: Hardware Version: 1.01 Current Version: EG\_3.0(1)B11P35,Release(07240116) ×

Upgrade Version: [EG\\_3.0\(1\)B11P26,Release\(07172304\)](#) [Firmware Details](#) Select Firmware

Upgrade Device: 1

Scheduled Upgrade

Begin Date:  Time Range:  :  to  :

[Advanced Settings](#) ^

Max Retry Times:

[Start Upgrade](#) [Cancel](#)

## ● Upgrade All

Upgrade all devices in the list. It is suitable for a scenario with a large number of devices. A network or a firmware version number can be specified to perform fast upgrades.

1. Click **Upgrade All**.

Device List

[Upgrade](#) [Upgrade All](#) 0 Selected

<input type="checkbox"/>	Status	SN	Network
<input type="checkbox"/>	Online	H1MSC0M000172	eg_test
<input type="checkbox"/>	Online	G1MV35M000029	1608013519762

2. Select the version and click **Start Upgrade**

Upgrade ×

Tip: Only one type of device (Gateway,WiFi Router,AC,Switch,AP) can be upgraded at a time.

Check in Maintenance > Log > Upgrade Log

[Start Upgrade](#) [Cancel](#)

Model: Hardware Version: 3.00 Current Version: EG\_RGOS 11.9(4)B12P1, Release(07230323) ×

Upgrade Version: Please select a firmware version. Select Firmware

Upgrade Device: 1

Model: Hardware Version: 1.01 Current Version: EG\_3.0(1)B11P35,Release(07240116) ×

Upgrade Version: [EG\\_3.0\(1\)B11P26,Release\(07172304\)](#) [Firmware Details](#) Select Firmware

Upgrade Device: 1

3. You can check the upgrade result in **LOGS > Upgrade Log**.

Upgrade Log

Operator	Description	Target Version	Process	Created at	Result (Success/Failure/Aborted)	Action
testdemo	Upgrade selected1 device(s)	AP_RGOS 11.1(5)B9P11, Release(05151211)	0/1	2021-01-12 15:03:48	0/0/0	
testdemo	Upgrade selected1 device(s)	AC_RGOS 11.9(5)B1, Release(06240613)	0/1	2021-01-11 10:35:29	0/0/0	
testdemo	Upgrade selected1 device(s)	EG_3_0(1)B11P30,Release(07201401)	1/1	2020-12-09 17:44:09	1/0/0	
testdemo	Upgrade selected1 device(s)	AP_3_0(1)B11P35,Release(07240700)	1/1	2020-12-07 20:47:44	1/0/0	
testdemo	Upgrade selected2 device(s)	AP_3_0(1)B2P28,Release(07220919)	2/2	2020-11-25 14:53:57	2/0/0	
testdemo	Upgrade selected1 device(s)	EG_3_0(1)B11P30,Release(07181202)	1/1	2020-11-25 11:12:30	1/0/0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	1/1	2020-11-20 09:28:26	1/0/0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	1/1	2020-11-19 20:43:56	1/0/0	
testdemo	Upgrade selected1 device(s)	EG_RGOS 11.9(4)B12P1, Release(07230323)	1/1	2020-11-19 19:47:54	1/0/0	
testdemo	Upgrade selected1 device(s)	S19_RGOS 11.4(1)B42P17	1/1	2020-11-19 15:21:42	0/0/1	

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 239 in total

If the upgrade is successful, log will show **Upgrade succeeded**.

Details

SN	Upgrade Status	Retry Times	Started at	Ended at	Description	Action
MACCEG1689832	Succeeded	0	2020-12-09 17:44:20	2020-12-09 17:46:42	Upgrade succeeded. Your version i...	

Page  of 1  
 1 in total

Or check the results in the **Recommend Version of Device List**.

The screenshot shows the Ruijie Maintenance interface. On the left, the 'UPGRADE' menu is active, showing 'Upgrade 3' and 'Firmware'. The main area is divided into two sections:

- Upgrade Log:** A donut chart shows the status of devices. A legend indicates: No Version Info (blue), AP\_RGOS 11.1(9)B1P21... (green), EG\_3\_0(1)B11P35,Relea... (yellow), EG\_3\_0(1)B11P32,Relea... (orange), AP\_RGOS 11.1(9)B1 (red), and other (dark red).
- Firmware Version:** A table showing the recommended versions for various devices.
 

Version	Count
UNKNOWN	6
AP_3_0(1)B2P28,Release(07220919)	1
EG_3_0(1)B11P35,Release(07240116)	1
AP_RGOS 11.1(9)B1P21, Release(06211815)	1
- Device List:** A table listing devices with their status, SN, Network, Alias, Model, Hardware Version, Current Version, and Recommended Version.
 

Status	SN	Network	Alias	Model	Hardware Version	Current Version	Recommended Version
Online	G1LQ36K000960	eglest		AP730(DR)	1.00	AP_RGOS 11.1(9)B1	Lastest Version
Online	G1ML11L000045	AC_Nature_office	Test123	WS6812	1.15	AC_RGOS 11.9(5)B1, Release(06240613)	Lastest Version
Online	CAN907Z046977	test_bridge_01	Ruijie	EST310	1.00	AP_3_0(1)B2P28,Release(07220919)	Lastest Version
Offline	G1MV90K006997	Nature_office20210113		AP710	1.30	AP_RGOS 11.1(9)B1P21, Release(06211815)	AP_RGOS 11.1(5)B40P6, Release(06150511)
Offline	H1PTATC001746	105G	Ruijie	EG105G-P	1.30	EG_3_0(1)B11P32,Release(08130618)	EG_3_0(1)B11P26,Release(07172303)
Offline	H1PT4S2045002	eglest	Ruijie	EG105GW	1.01	EG_3_0(1)B11P35,Release(07240116)	EG_3_0(1)B11P26,Release(07172304)
Not Online Yet	CANL437000138	Binnygggg	-	ES205GC-P	-	-	-
Not Online Yet	G1PDS8H069315	105G	-	-	-	-	-
Not Online Yet	MACCR05533002	TestSubNetwork001	ruijie002	-	-	-	-
Not Online Yet	H1NW363631016	EG105G	-	-	-	-	-

The numbers of devices which have available firmware for upgrade in **MAINTENANCE** Menu and **Upgrade** in Navigation Bar will change accordingly.

**Notification:** New firmware available for 1 devices

**Top Versions:**

- EG\_3.0(1)B11P35,Release(07240116)
- S29\_RGOS 11.4(1)B74P1, Release(07230601)
- AP\_3.0(1)B2P28,Release(07220919)
- AC\_RGOS 11.9(5)B1, Release(06240613)
- No Version Info

**Firmware Version List:**

Firmware Version	Devices
AP_3.0(1)B2P28,Release(07220919)	1
EG_3.0(1)B11P35,Release(07240116)	1
S29_RGOS 11.4(1)B74P1, Release(07230601)	1
AC_RGOS 11.9(5)B1, Release(06240613)	1
UNKNOWN	1

**Device List:**

Status	SN	Network	Alias	Model	Hardware Version	Current Version	Recommended Version	Description	Action
Online	G1MV35M000029	EG105G	s2910cx	S2910C-24GT2XS-P-E	1.11	S29_RGOS 11.4(1)B74P1, Release(07230601)	-		Upgrade
Online	CAN90T2046977	test_lyl_004	-	EST310	1.00	AP_3.0(1)B2P28,Release(07220919)	-		Upgrade
Online	G1ML11L000045	AC_Nature_office	Test	WS6812	1.15	AC_RGOS 11.9(5)B1, Release(06240613)	-		Upgrade
Offline	H1PT4S2045002	egtest	Ruijie	EG105GW	1.01	EG_3.0(1)B11P35,Release(07240116)	EG_3.0(1)B11P26,Release(07172304)		Upgrade

## 7.2.2 Firmware

### 7.2.2.1 Version Details

The **Version Details** list displays the versions of firmware installed on all devices. Click **Go To Upgrade** in the **Action** column to open the **MAINTENANCE > UPGRADE > Upgrade** page.

Version Details Private Firmware

Model	Current Version	Hardware Version	Devices	Recommended Version	Action
EG105GW	EG_3.0(1)B11P35,Release(07240116)	1.01	1	EG_3.0(1)B11P26,Release(07172304)	<a href="#">Go To Upgrade</a>
S2910C-24GT2XS-P-E	S29_RGOS 11.4(1)B74P1, Release(07230601)	1.11	1	-	<a href="#">Go To Upgrade</a>
EST310	AP_3.0(1)B2P28,Release(07220919)	1.00	1	-	<a href="#">Go To Upgrade</a>
WS6812	AC_RGOS 11.9(5)B1, Release(06240613)	1.15	1	-	<a href="#">Go To Upgrade</a>
ES205GC-P	UNKNOWN	UNKNOWN	1	-	<a href="#">Go To Upgrade</a>

Page 1 of 1 | 5 in total

### 7.2.2.2 Private Firmware

The **Private Firmware** list displays the private firmware uploaded by all accounts under a tenant.

Upload Firmware Delete 0 Selected Firmware Version, Applicable Search

<input type="checkbox"/>	Firmware Version	File	File Size (MB)	Applicable Model	Uploaded at	Released at
<input type="checkbox"/>	AP_3.0(1)B11P35,Release(07240700)	AP_3_0_1_B11P35_EAP212_F__07240700.tar.gz	6.59	EAP102(F)::1.00,EAP212(F)::1.00,RAP1200(F...	2020-12-07 18:47:24	2020-12-07 18:47:23
<input type="checkbox"/>	RGOS 10.4(2B17)-SP2	AP_RGOS11.9_6_B1_S2X2-05-C-FULL_07222918_install.bin	24.02	AP820-L(V2)::1.00,AP820-L(V2)::1.10,MAP-8...	2020-11-24 16:27:15	2020-10-29 18:14:39
<input type="checkbox"/>	EG_RGOS 11.9(4)B12P1, Release(07230323)	EG_RGOS11.9_4_B12P1_EG2100-P_07230323_install.bin	65.77	EG2100-P::1.01,EG2100-P::2.00,EG2100-P::2...	2020-11-19 19:45:44	2020-11-19 19:45:43
<input type="checkbox"/>	EG_3.0(1)B11P35,Release(07231606)	EG_3_0_1_B11P35_EG105G_07231606.tar.gz	9.33	EG105G::1.00,EG105G-P::1.00,EG105G::1.xx...	2020-11-18 11:37:51	2020-11-18 09:42:30
<input type="checkbox"/>	EG_3.0(1)B11P35,Release(07230214)	EG_3_0_1_B11P35_EG105G_07230214.tar.gz	9.33	EG105G::1.00,EG105G-P::1.00,EG105G::1.xx...	2020-11-18 11:36:34	2020-11-18 11:36:33
<input type="checkbox"/>	AP_3.0(1)B2P30,Release(07212202)	AP_3_0_1_B2P30_EAP602_07212202.tar.gz	7.29	EAP602::1.00,EAP602::1.xx,EAP602::2.00,EA...	2020-11-09 22:30:34	2020-11-09 22:30:33
<input type="checkbox"/>	AP_3.0(1)B11P30,Release(07221904)	AP_3_0_1_B11P30_EAP212_F__07221904.tar.gz	6.54	EAP102(F)::1.00,EAP212(F)::1.00,RAP1200(F...	2020-11-05 20:14:43	2020-11-05 20:14:42
<input type="checkbox"/>	EG_3.0(1)B11P35,Release(07230215)	EG_3_0_1_B11P35_EG210G_07230215.tar.gz	9.87	EG210G-P::1.00,EG210G-P::1.xx	2020-11-03 10:48:34	2020-11-03 10:48:34
<input type="checkbox"/>	AP_3.0(1)B2P28,Release(07220919)	AP_3_0_1_B2P28_EST310_07220919.tar.gz	6.57	EST310::1.00,EST310::1.xx	2020-10-27 14:49:39	2020-10-27 14:49:38
<input type="checkbox"/>	EG_3.0(1)B11P32,Release(07222117)	EG_3_0_1_B11P32_EG105G_07222117.tar.gz	9.34	EG105G::1.00,EG105G-P::1.00,EG105G::1.xx...	2020-10-26 10:42:01	2020-10-26 10:42:00

First Previous Page 1 of 9 Next Last 10 88 in total

Click **Upload Firmware** to upload private firmware.

Upload Firmware

Tip: Upload .bin file for RGOS devices and tar.gz for Reyee devices.

'tar.gz' or '.bin' File

Close

Upload Firmware

Tip: Upload .bin file for RGOS devices and tar.gz for Reyee devices.

File AP\_3.0(1)B11P30\_EAP212(G)\_07190303.tar.gz

Description

Import

Close

Click in the **Action** column to edit the **Description** of firmware.



Edit Description ×

---

File AP\_3.0\_1\_B11P35\_EAP212\_F\_\_07240700.tar.gz

Description

---


Click **Delete** or  in the **Action** column to delete private firmware.

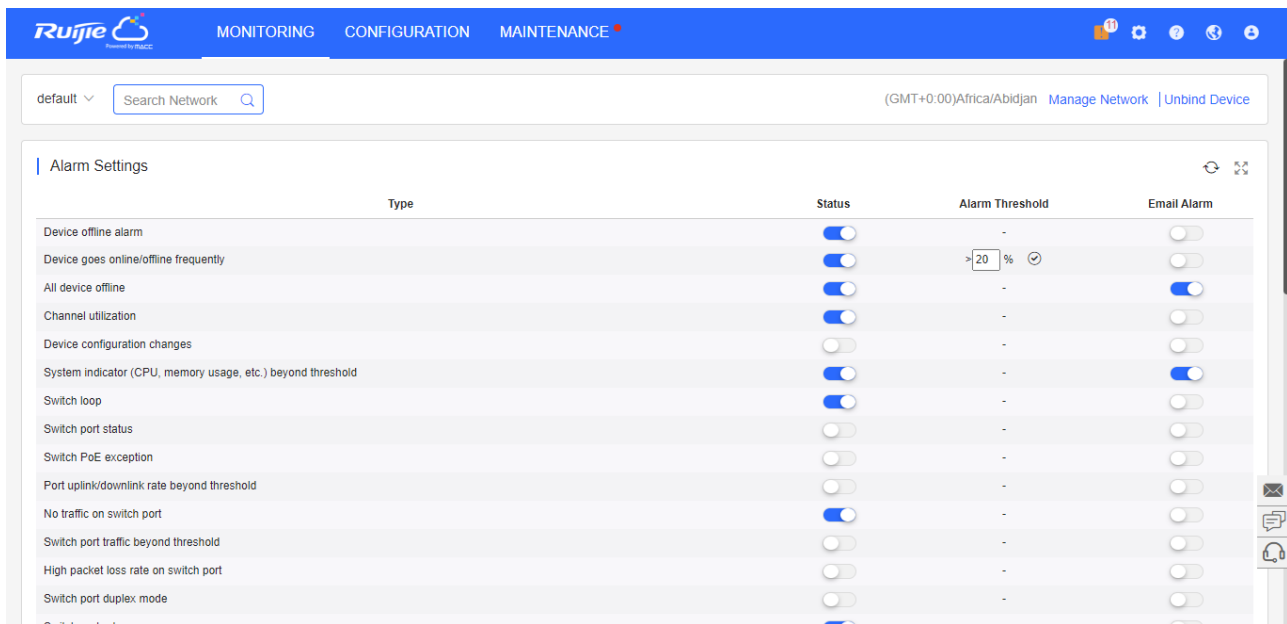
Message ×

Are you sure you want to delete the firmware?

## 8 System Settings

### 8.1 Alarm Settings

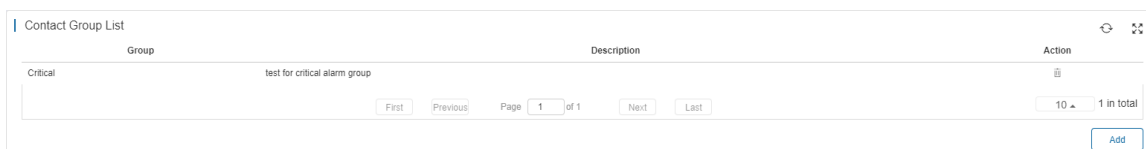
Click  in the upper right corner and select **Alarm Settings**. The **Alarm Settings** page is displayed for alarm parameter configuration.



Type	Status	Alarm Threshold	Email Alarm
Device offline alarm	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>
Device goes online/offline frequently	<input checked="" type="checkbox"/>	>20 %	<input type="checkbox"/>
All device offline	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
Channel utilization	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>
Device configuration changes	<input type="checkbox"/>	-	<input type="checkbox"/>
System indicator (CPU, memory usage, etc.) beyond threshold	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>
Switch loop	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>
Switch port status	<input type="checkbox"/>	-	<input type="checkbox"/>
Switch PoE exception	<input type="checkbox"/>	-	<input type="checkbox"/>
Port uplink/downlink rate beyond threshold	<input type="checkbox"/>	-	<input type="checkbox"/>
No traffic on switch port	<input checked="" type="checkbox"/>	-	<input type="checkbox"/>
Switch port traffic beyond threshold	<input type="checkbox"/>	-	<input type="checkbox"/>
High packet loss rate on switch port	<input type="checkbox"/>	-	<input type="checkbox"/>
Switch port duplex mode	<input type="checkbox"/>	-	<input type="checkbox"/>


Alarm settings are configured by network. If no alarm is configured, the global settings are adopted.

On the **Alarm Settings** page, you can configure to receive alarms or not and in which way. When the **Status** is enabled, alarm information is displayed on the **Alarm** page. Alarms can be pushed by Email and only when the **Status** is enabled. When the **Email Alarm** is enabled, alarms will be pushed via Email to the contacts in the **Contact List** of the network.



Group	Description	Action
Critical	test for critical alarm group	

Page 1 of 1 | 10 in total | Add

**Note:** To use the **Email Alarm** function, click  and select **System Settings** to preset the account and password of the SMTP server for sending Emails on the **Advanced** page via the administrator account. For details about the configuration page, see section 6.2.2.

## 8.2 Contact

On the **Contact** page, you can add contact and contact groups that will receive the alarm Emails.

### 8.2.1 Contact List

Add a contact as the Email recipient.

Contact List

Name	Mobile	Email	Description	Action
TestContact	18800001111	test@test.com	test contact	<a href="#">✎</a> <a href="#">🗑</a>
Eric	117878938394	Eric@gmail.com	Eric	<a href="#">✎</a> <a href="#">🗑</a>
xiaoziran	18703608603	xiaoziran@ruijie.com.cn	alarm	<a href="#">✎</a> <a href="#">🗑</a>

First Previous Page 1 of 1 Next Last 10 3 in total

Add

Add/Edit Contact

Name :

Email :

Mobile :

Description :

Save Cancel

### 8.2.2 Contact Group

Add a group and move the contacts to the group.

Contact Group

Group	Description	Action
Critical	test for critical alarm group	<a href="#">✎</a> <a href="#">🗑</a>
Nature_TestGroup	testing	<a href="#">✎</a> <a href="#">🗑</a>
111	11	<a href="#">✎</a> <a href="#">🗑</a>
xiaoziran_alarm	89	<a href="#">✎</a> <a href="#">🗑</a>

First Previous Page 1 of 1 Next Last 10 4 in total

Add

Edit Contact Group

Name

Description

Contact Group

All Contacts

<< Add to Group

Delete from Group >>

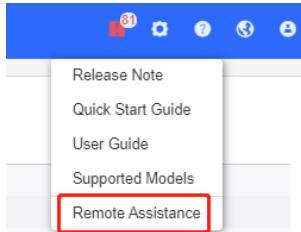
Save Cancel


## 8.3 Remote Assistance

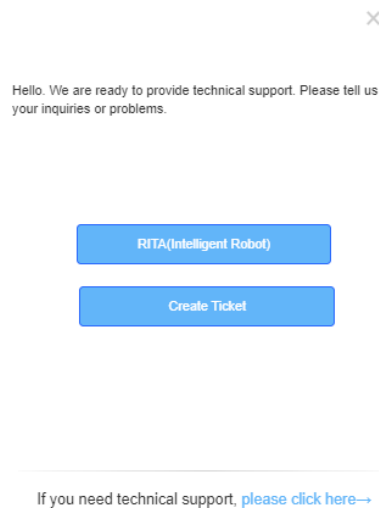
**Remote Assistance** aims to provide a quick access for Ruijie Support to log in your Ruijie Cloud for configuration and troubleshooting. Ruijie will not change your settings without your permission.

### 8.3.1 Configuration Steps

1. Click **Remote Assistance** on top right navigation bar.




Or click  in the lower right corner, an online-help window will appear. Then click **please click here**.



2. Set the permission of remote assistance: In the **Read-only** mode, Ruijie Support can check but not modify user data; in the **Read and Write** mode, Ruijie Support can check and modify user data.
3. Copy and share this link and password to Ruijie Support.

---

 **Note:** Ruijie will not take any responsibility if remote assistance session is shared to non-Ruijie staff and services are interrupted.

---

Remote Assistance



We will use this link to log in to cloud to solve your problem (We will not change your configuration without your permission). we will not take any responsibility if remote assistance session is shared to other company's staff and services are therefore interrupted.

Permissions:  Read-only  Read and Write

Link:


<http://cloud-as.ruijienetworks.com:80/admin3/remoteVerCode?ratiuncula=17>

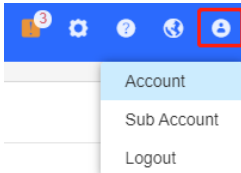
Verification Code: **659dwb**

Copy link

Cancel

## 9 Account

Point to  on the upper right corner, the **Account** menu is displayed, which includes **Account**, **Sub Account** and **Logout**.



### 9.1 Account

The **Account** page is divided into the **User Info**, **Modify Password** and **Modify Twilio Account** area. In the **User Info** area, you can edit the basic information of user (**Username** and **Email** is not allowed to be changed). In the **Modify Password** area, you can change the login password.

#### User Info

Username :

Language :

Time Zone :

Full Name :

Email :

Address :

#### Modify Password

Old Password :

New Password :

Confirm Password :



#### Modify Twilio Account [How to apply twilio account?](#)


Twilio Account SID:

Auth Token:

Auth Phone:

## 9.2 Sub Account

The **Sub Account List** displays the information of sub accounts. Click  in the **Action** column to edit the sub account. Click  in the **Action** column to delete the sub account.

Username	Role	Network	Full Name	Mobile	Email	Action
ry_xiaoziran@163.com	Admin	Nature_office20210113	123 etse	-	ry_xiaoziran@163.com	 
ruok@chacuo.net	Operator	eg_test_egtest	ren mei	15986	ruok@chacuo.net	 
2961167598@qq.com	Operator	default	rui jie		2961167598@qq.com	 

Page 1 of 1

3 in total

Click **Add Sub Account** to add a new sub account. Select the network, enter the Email in the **Username** box and click **Send Code**. Enter the security code contained in the Email, set the password, language, full name, expiration date, mobile and role, and click **Save**.

Role: **Admin** owns the permissions to create an account. **Employee** owns the permissions to edit data. **Operator** owns the permissions to print voucher and view account data. **Guest** owns the permissions to view data.

Add Sub Account

Note: If you have a Cloud account, you can share the network and do not need to add a sub account.  
[Details](#)

Type  New Account  Existing Account

Network  \*

Username  \*

Verification Code   \*

Password  \*

Language  ▼

First Name  \*

Last Name  \*

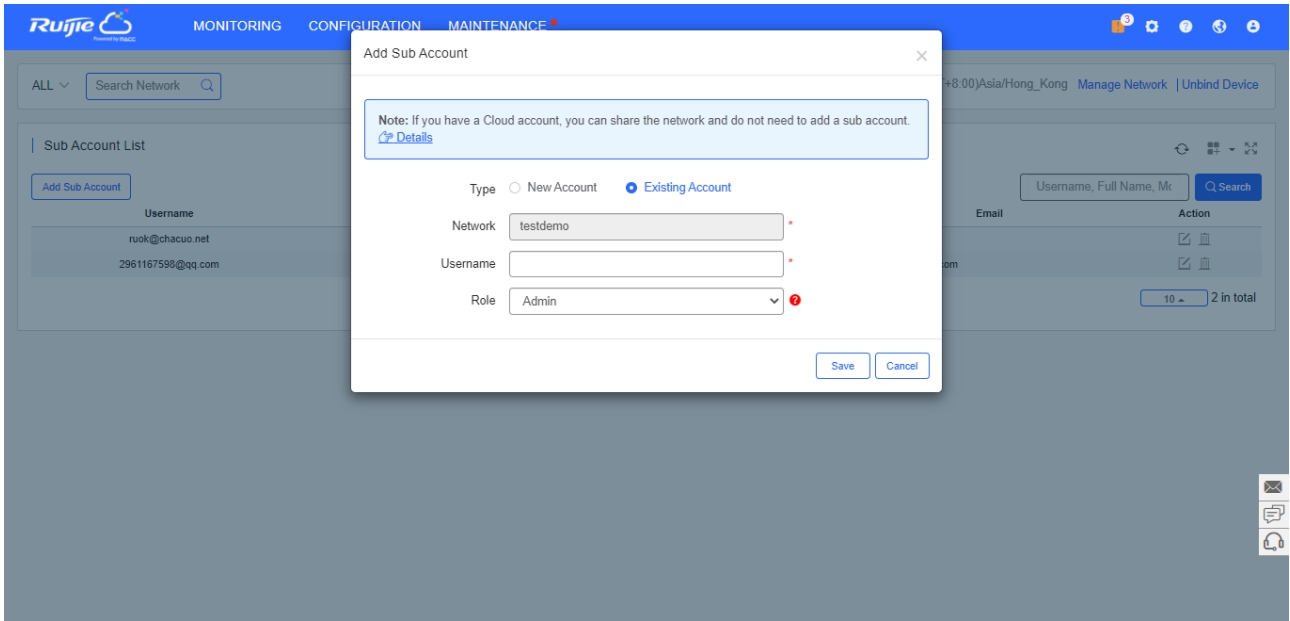
Mobile  \*

Role  ▼ ?

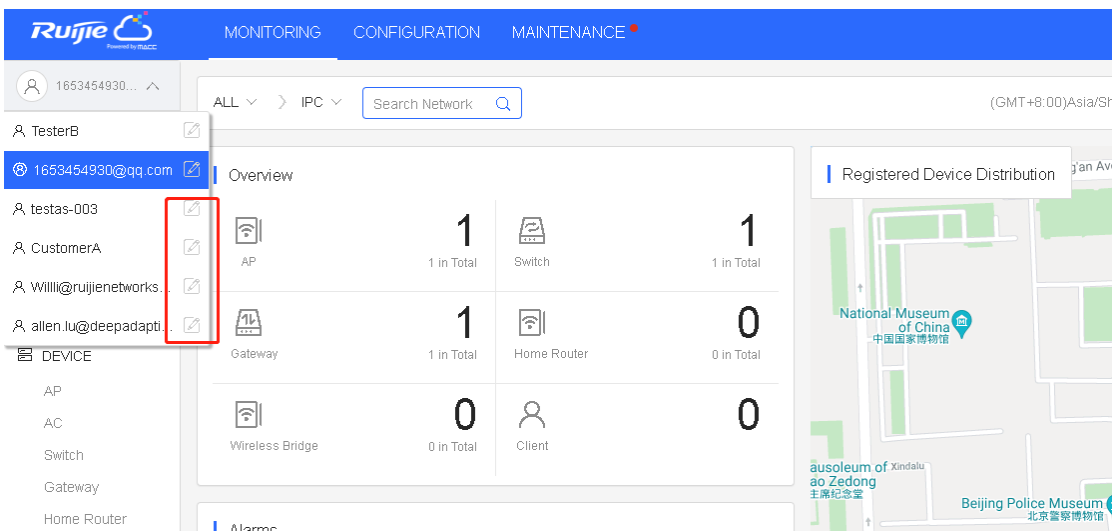
Save

Cancel

The existing sub account can be added to the network so that a sub account can manage multiple networks.



You can edit the name of project sharers for easy recognition.



### 9.3 Logout

Click **Logout** to exit the system and return to the login page.



# 10 Unbind Device

Click **Unbind Device**, and enter the device SN to get URL. Configure the URL as the ACS URL on device, and the device will automatically unbind on Cloud.



## Unbind Device ×

### Unbind Steps

**Note:** Only supported on RGOS APs, ACs and switches. Please follow the steps to unbind the device: [🔗 Details](#)

1. Enter the device SN to get URL (valid for 24 hours)

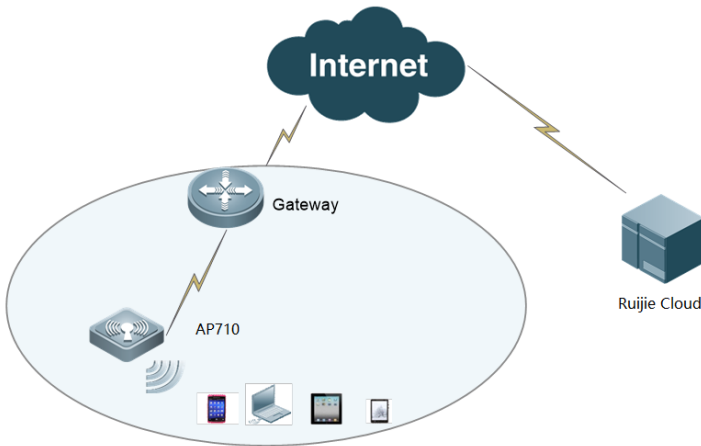
 

2. Configure the device ACS URL as the URL below and ensure the connection between the device and cloud

3. After the device goes online, it will unbind with the tenant automatically (Its ACS URL will be changed back by cloud after the device is added to a network)

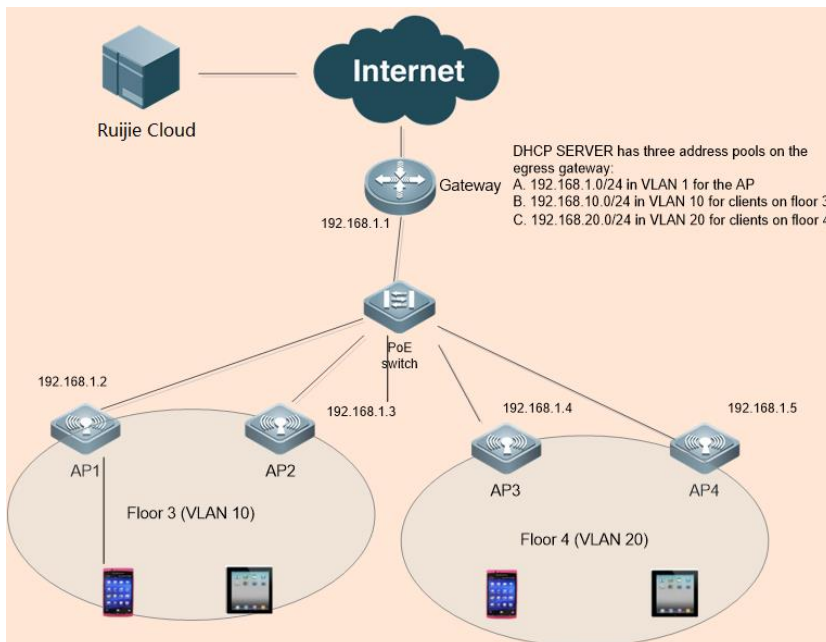
# 11 Application Examples

This chapter introduces how to quickly connect AP710 to the Cloud Service, and use the Cloud Service to manage AP320 to emit WiFi signals. For example, to deploy a network for a new branch, a WiFi network with the SSID of "SSID-FREE" is provided for staff. The WiFi network is encrypted in wpa2-psk mode, with the password 12345678 and a rate limit of 100 Kbps for a connected client.



## 11.1 Wireless Roaming

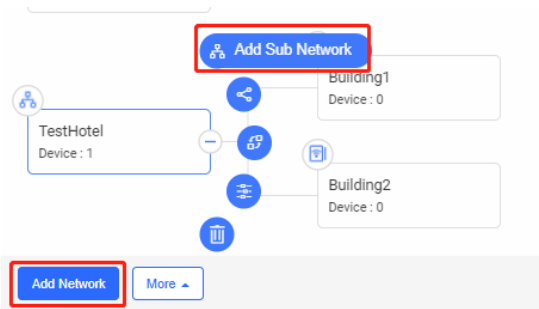
To deploy a network for a new branch, a WiFi network "SSID-FREE" is provided for external personnel for free. The WLAN for clients on floor 3 is divided into VLAN 10, and the WLAN for clients on floor 4 is divided into VLAN 20. The roaming function is supported, and the uplink and downlink rates of all clients are limited to 100 Kbps.



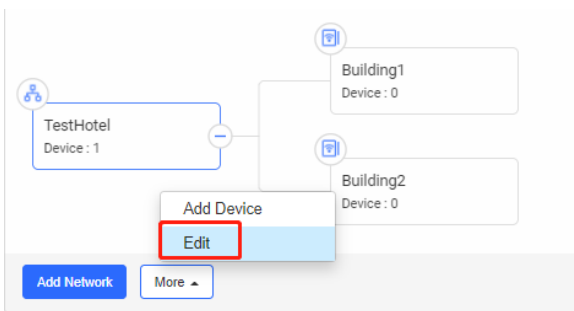
### 11.1.1 Adding Network


Network planning is realized using **Network**.

1. Choose **CONFIGURATION > NETWORKS**.
2. Click **Add Network** to add “TestHotel” Network.
3. Click **Add Sub Network** to add “Building1” and “Building2” network, as shown in the following figure. You can add more networks according to this method.



4. Choose **CONFIGURATION > NETWORKS > More > Edit**, and select the TestHotel network.




5. Enter a location name in the search box, select the location marked by  on the map, and then click **Save**.

Edit
✕

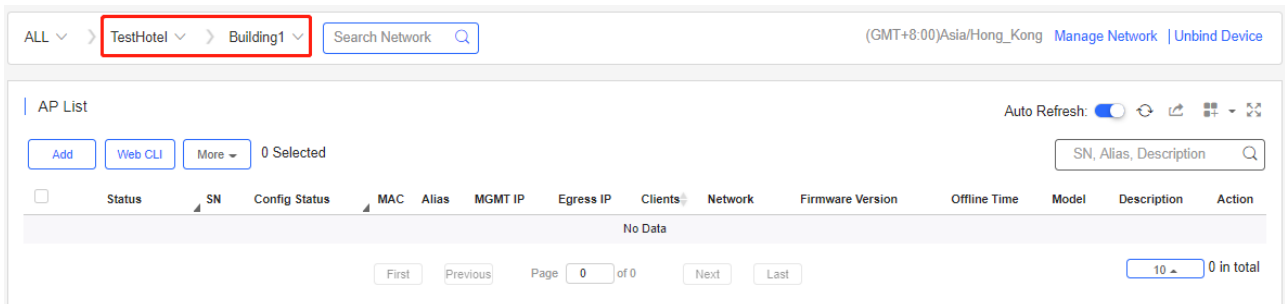
Name

Time Zone

Bind Location

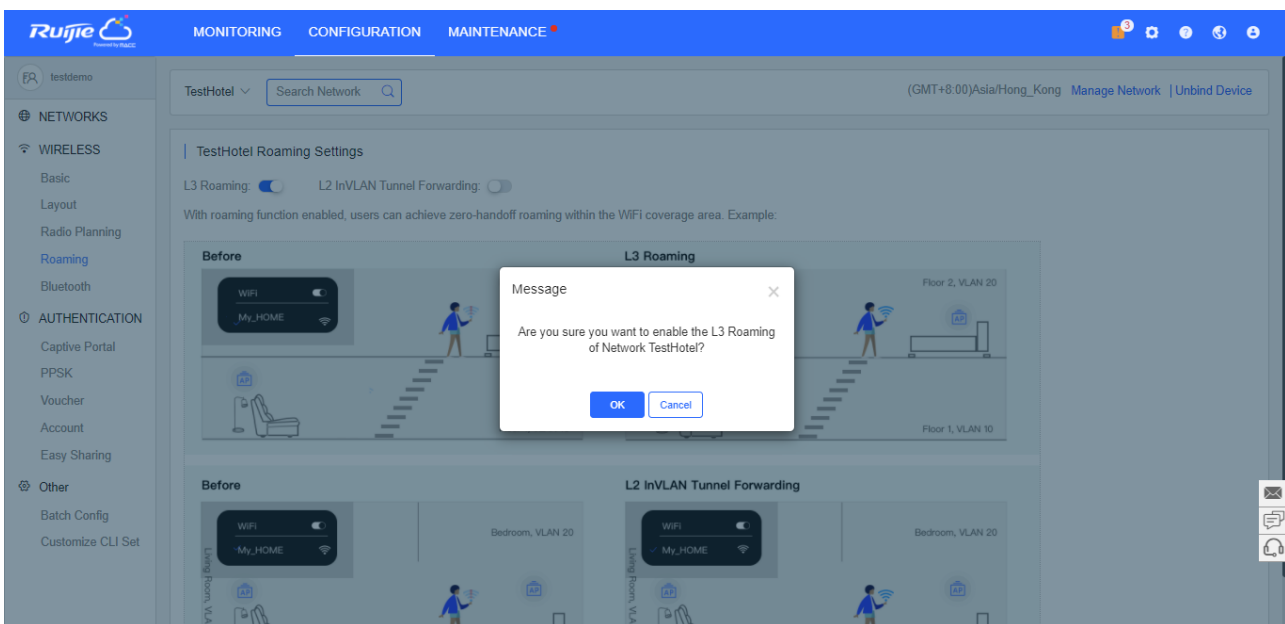


- Choose **MONITORING > DEVICE > AP**, select the **TestHotel > Building1** network, and click **Add** to add APs. APs can be imported in batches or added one by one. Accordingly, add other APs in the **Hotel > Building2** network.



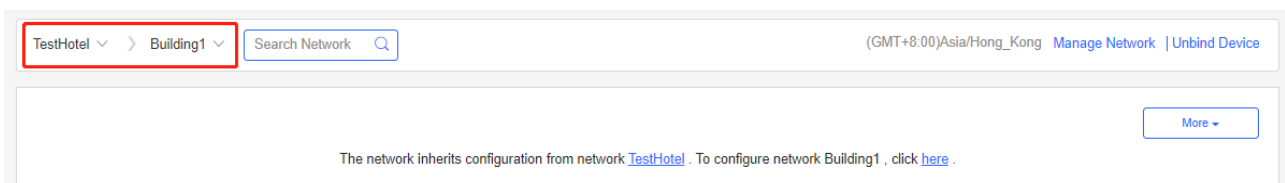
### 11.1.2 Enabling Roaming Function

- Choose **CONFIGURATION > WIRELESS > Roaming**.
- Select the **TestHotel** network.
- Enable the roaming function for this Network.



### 11.1.3 Adding Configurations

- Choose **CONFIGURATION > WIRELESS > Basic**.



- Click **+** under SSID, enter **SSID-FREE** in the **SSID** text box, set **Forward Mode** as **Bridge**, set **VLAN ID** as 10, set **Rate limit** as 100 KB/s, and click **Save**.

SSID

✕

WLAN ID	<input type="text" value="1"/>	Hidden	<input type="text" value="No"/>
SSID	<input type="text" value="SSID-FREE"/>	Forward Mode	<input type="text" value="Bridge"/>
Encryption Mode	<input type="text" value="Open"/>	VLAN ID	<input type="text" value="10"/>
5G-Prior Access	<input checked="" type="checkbox"/>	Radio	<input checked="" type="checkbox"/> Radio1(2.4GHz) <input checked="" type="checkbox"/> Radio2(5GHz) <input type="checkbox"/> Radio3 (2.4GHz or 5GHz)
Speed Limit per Client	<input checked="" type="checkbox"/>	Uplink	<input type="text" value="100"/> Mbps
Speed Limit by SSID	<input type="checkbox"/>	Downlink	<input type="text" value="100"/> Mbps
Auth	<input type="checkbox"/>	<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

3. Add the **Building2** network with **VLAN ID 20** according to the same method.

SSID

✕

WLAN ID	<input type="text" value="2"/>	Hidden	<input type="text" value="No"/>
SSID	<input type="text" value="SSID-FREE"/>	Forward Mode	<input type="text" value="Bridge"/>
Encryption Mode	<input type="text" value="Open"/>	VLAN ID	<input type="text" value="20"/>
5G-Prior Access	<input checked="" type="checkbox"/>	Radio	<input checked="" type="checkbox"/> Radio1(2.4GHz) <input checked="" type="checkbox"/> Radio2(5GHz) <input type="checkbox"/> Radio3 (2.4GHz or 5GHz)
Speed Limit per Client	<input checked="" type="checkbox"/>	Uplink	<input type="text" value="100"/> Mbps
Speed Limit by SSID	<input type="checkbox"/>	Downlink	<input type="text" value="100"/> Mbps
Auth	<input type="checkbox"/>	<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

### 11.1.4 Importing APs

Bind AP1 and AP2 to the **Building1** network, and bind AP3 and AP4 to the **Building2** network.

### 11.1.5 APs Online

#### Gateway Configuration:

Add the AP address pool: 192.168.1.0/24.

**Building1** client address pool: 192.168.10.0/24; gateway: 192.168.10.1; VLAN: 10

**Building2** client address pool: 192.168.20.0/24; gateway: 192.168.20.1; VLAN: 20

**PoE Switch Configuration:**

On the port through which the PoE switch is connected to the AP, configure a trunk port with the native ID set to 1 by default, and add **VLAN 10** and **VLAN 20**.

**11.1.6 Verification****11.1.6.1 Connecting to WiFi Signals**

Connect a mobile phone to the WiFi network properly for Internet access.

**11.1.6.2 Testing Wireless Roaming**

Connect a mobile phone with the WiFi network "**SSID-FREE**", and go upstairs from **Building1** to **Building2**. Reconnection and Internet access failure do not occur.

**11.2 Authentication Scheme****11.2.1 External Portal**

Third-party authentication servers adopt the WiFiDog protocol for authentication. The industrial APs interconnect with the third-party authentication servers are based on the WiFiDog protocol.



It is necessary to learn about the interconnection protocol adopted by third-party authentication servers for evaluation and confirmation by R&D personnel before interconnecting with the third-party authentication servers.

---

## 12 Appendix

### 12.1 Acronyms and Abbreviations

Acronyms and Abbreviations	Full Name
AP	Access Point
AC	Access Controller
BOSS	Business & Operation Support System
DHCP	Dynamic Host Configuration Protocol
DNS	Domain Name Server
EAP	Extensible Authentication Protocol
EAPOL	EAP Over Lan
EAP AKA	Extensible Authentication Protocol Method for 3rd Generation Authentication and Key Agreement
ESSID	Extended Service Set Identification
FTP	File Transfer Protocol
HLR/AuC	Home Location Register
HTTP	Hypertext Transfer Protocol
IMSI	International Mobile Subscriber Identification
MSISDN	Mobile Subscriber ISDN
NAT	Network Address Translation
PAT	Port Address Translation
Radius	Remote Authentication Dial In User Service
SNMP	Simple Network Management Protocol
SSID	Service Set Identifier
UDP	User Datagram Protocol
VPN	Virtual Private Network
WEP	Wired Equivalent Privacy
WPA	Wi-Fi Protected Access
WAPI	Wireless LAN Authentication and Privacy Infrastructure
WLAN	Wireless Local Access Network

### 12.2 Glossary

Term	Definition
Cloud	Specify the cloud center management end, supports private and public clouds, allows separate deployment of a system of a private cloud version, and provides cloud services of the public cloud version.
Network	Enable the device grouping for easy management of a large quantity of devices. It is recommended that networks be added by geographical location or device use.