



Ruijie Cloud

Troubleshooting Guide(V1.0)

Preface

Thank you for using our products.

Audience

This manual is intended for:

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

Obtaining Technical Assistance

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

Symbols

 Important information. Contains helpful suggestions or references.

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

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2. Ruijie Cloud Service Overview

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 & Alert

Ruijie Cloud Service Overview

Cloud Management

- Unified Device Management
- Flexible Group Configuration

Mobile Operation

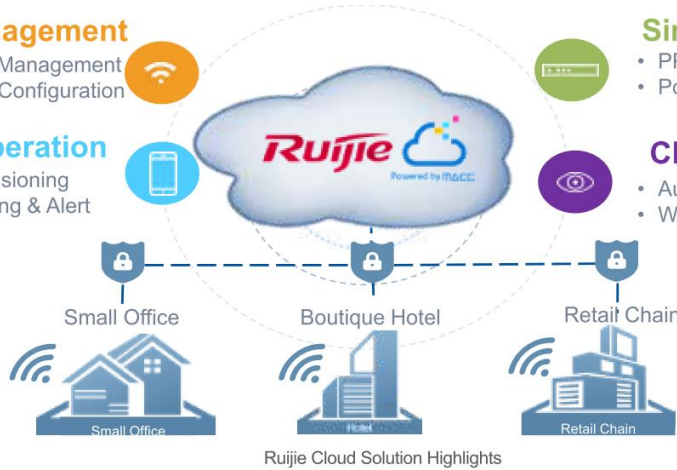
- Seamless Provisioning
- Mobile Monitoring & Alert Notifications

Simplified Security

- PPSK Staff Authentication
- Portal Authentication (Social Login)

Cloud Analytics

- Automated WiFi Optimization
- WiFi Experience Analysis



Ruijie Cloud Service Feature List:

Deployment	Monitoring
<ul style="list-style-type: none"> - Seamless Provisioning with Mobile APP - Startup Wizard Guide for Initial Setup - Batch Import for Device Activation - Device Activation by QR-Code Scanning - Flexible Device Group Architecture 	<ul style="list-style-type: none"> - Global Google Map Dashboard - Network/Site Overview (Network total user, total traffic) - Device Real-time Monitoring and Alert - User Experience & Summary Report - Mobile Network Monitoring and Alert (Mobile APP)
Optimization	Troubleshooting
<ul style="list-style-type: none"> - Auto RF Planning (Power & Channel Optimization) - Band Steering 	<ul style="list-style-type: none"> - Web-CLI Remote Debugging Tool
Authentication	Advanced Features
<ul style="list-style-type: none"> - Hotspot WiFi Portal (1-Click Authentication) - Facebook Login - PPSK Authentication for Staff 	<ul style="list-style-type: none"> - Load Balancing - Wireless L2&L3 Roaming - Multi-level Account Management - Firmware Auto Upgrade

3. Quick Start

3.1 What can I do if the device shows offline status on Ruijie Cloud

1) There are several steps needed to be checked, the contents are shown as below:

- [Network Connectivity](#)
- [Device Running Mode\(Wireless only\)](#)
- [Ruijie Cloud Hosting\(Asia or Europe\)](#)
- [Device Firmware](#)
- [Serial Number](#)

Network Connectivity

1) Whether your device's IP address, gateway, DNS server are configured:

```
Ruijie-Switch#conf t
Ruijie-Switch (config)#ip name-server 8.8.8.8
```

For how to configure those basic network settings, you can refer Ruijie Cloud Cookbook: https://www.ruijienetworks.com/support/documents/slide_73922

2) Verify the connectivity between Ruijie device and Ruijie Cloud. Execute **ping cloud.ruijienetworks.com** on device CLI.

3) Following ports are used for Ruijie Cloud management. Ensure these ports are available and data stream is permitted.

DST.IP	DST.TCP	DST.UDP
cloud-as.ruijienetworks.com	80,443	3478,3479
cloud-eu.ruijienetworks.com	80,443	3478,3479
portal.ruijienetworks.com(Captive Portal) portal-eu.ruijienetworks.com(Captive Portal)	80	

Note: AP and SMB switch have default CWMP setting which allows devices can look for Ruijie Cloud automatically. But for enterprise switch (RG-S29 series), it needs to configure CWMP URL on CLI manually. For more details, please refer Ruijie Cloud Cookbook: https://www.ruijienetworks.com/support/documents/slide_73922.

Device Running Mode (Wireless only)

Verify whether the AP is running in FAT mode, if the device is working in FAT mode, it needs to switch AP into macc mode on WEB or CLI for Ruijie Cloud registration. Command is shown as below:

Ruijie-Switch#ap-mode macc

Note: By default AP is running in FIT Mode and will convert MACC mode automatically once it has Internet access.

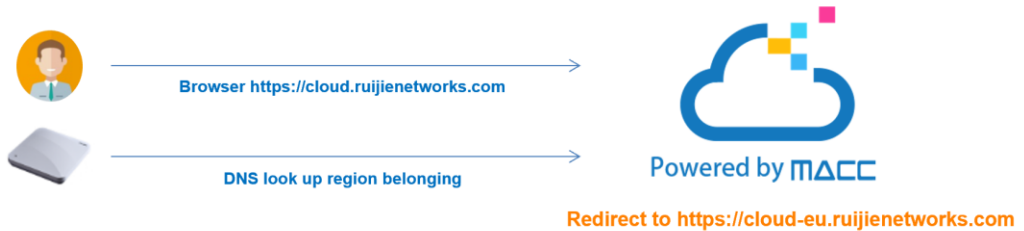
Ruijie Cloud Hosting (Asia or Europe)

- 1) In order to provide smooth access and reduce Internet latency for users in Ruijie Cloud solution. There are 2 Ruijie Cloud hosting installed for global service. The dynamic hosting selection for regions or countries shows as below:

Domain	Area/Country	Hosting
Cloud.ruijienetworks.com Asia:35.197.150.240 Europe:35.234.108.108	Default	Asia
	Aisa	Asia
	Europe	Europe
	Asia_Turkey	Europe
	Russian	Asia
	Aisa_Cambodia	Asia
	Asia_Israel	Europe
	Asia_Lebanon	Europe
	Asia_The United Arab Emirates	Europe
	Aisa_Saudi Arabia	Europe

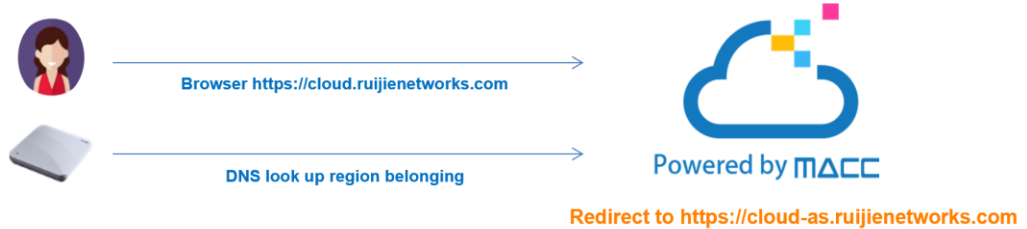
Europe Cloud

Platform	Area/Country
Entry: https://cloud.ruijienetworks.com Europe Host: https://cloud-eu.ruijienetworks.com IP:35.234.108.108	Europe Turkey, The United Arab Emirates, Lebanon, Israel, Saudi Arabia



Asia Cloud

Platform	Area/Country
Entry: https://cloud.ruijienetworks.com Asia Host: https://cloud-as.ruijienetworks.com IP:35.197.150.240	All (except those listed in EU hosting)
	Asia



Ruijie

- 2) As 2 hosting databases are isolated, if the serial number you input on and the device DNS resolution is not the same hosting, device will not show online. First, verify which hosting you are accessing in browser. Simply login your Ruijie Cloud account, and check the URL link. Cloud-as represents Asia cloud and cloud-eu is Europe Cloud. Then, login device's cli and execute **ping cloud.ruijienetworks.com** and check which IP address is resolved. (Asia-35.197.150.240, Europe-35.234.108.108). Please the cloud hosting you are accessing is same as the one device registered.

Device Firmware

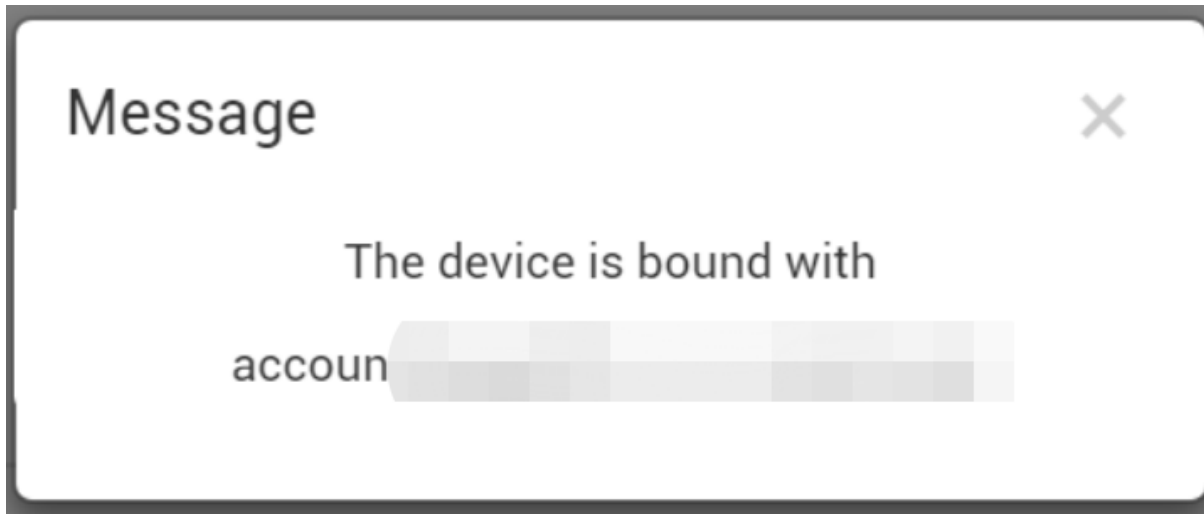
Whether the device is running the latest firmware as Ruijie Cloud recommended, if the firmware version is too old, it may not be compatible with Ruijie Cloud. User can login device's web or cli and upgrade to latest firmware version. Please refer Ruijie Cloud Supported Model and Recommended Firmware Version:

https://www.ruijienetworks.com/support/documents/slide_73633

Serial Number

Whether the device's serial number is matched with the one displayed on Ruijie Cloud. The serial number can be found on device back panel or exec "show version" on CLI.

3.2 What can I do if Ruijie Cloud shows “AP was bound by other account” while adding new AP.



Solution:

If you are facing devices bound /used by others account issue. Please Ruijie Online technical support at Skype: service_rj@ruijienetworks.com and list down which **SN and MAC** need to be unbound, and the device's pictures (back panel) should be attached. We will help you to fix this within one workday.

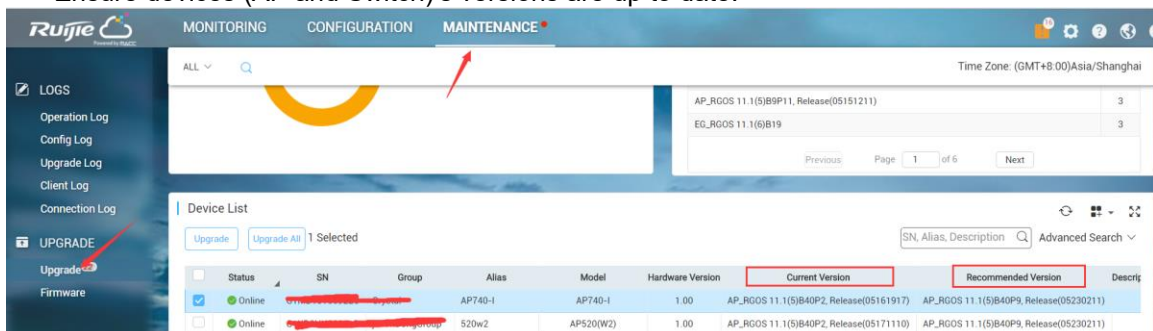
3.3 What can I do if The AP is online but stuck on “Not Synced” status

There are several steps needed to be checked, the contents are shown as below:

- [Device Firmware](#)
- [CWMP Configuration](#)
- [Config Status](#)

Device Firmware

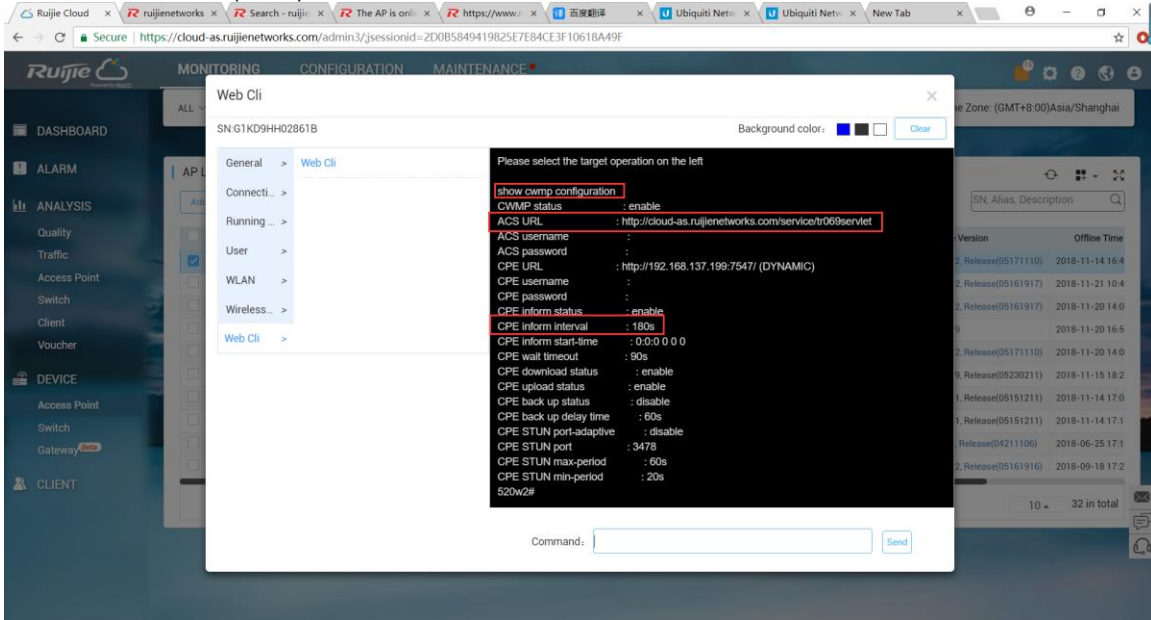
Ensure devices (AP and Switch)’s versions are up to date.



Notes: Cloud configure Facebook Auth or external portal auth with HTTPS URL, this requires to upgrade AP firmware to B40P9 or later.

CWMP Configuration

Use command “show cwmp config” on device’s CLI and check whether the CWMP URL and CWMP Interval(180s) are correct.

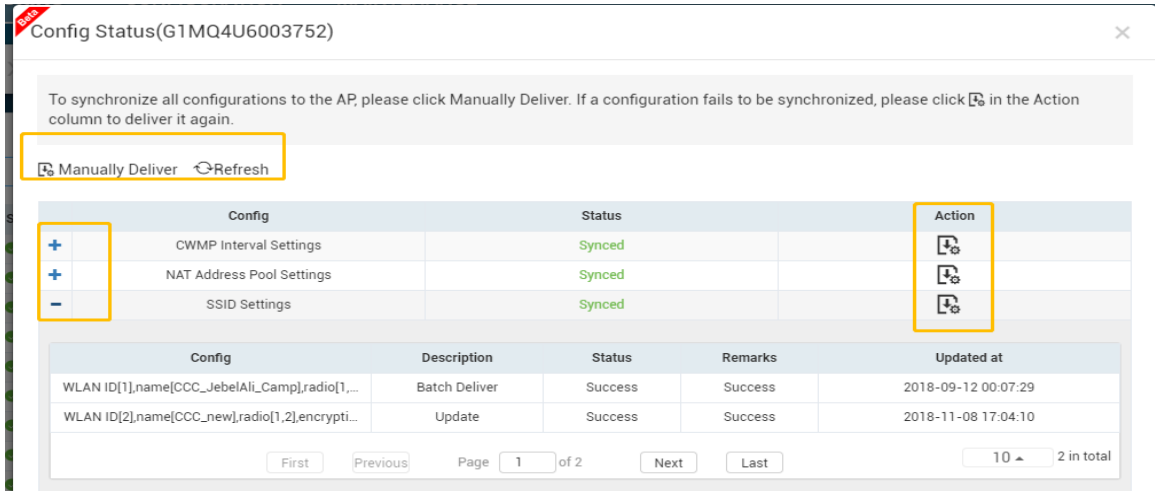


Config Status

Go to MONITORING -> DEVICE ->Access Point, select the device which showing synced fail, click “synced fail” to check the details.



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.



If above steps cannot solve the problem, you can use command perform factory-reset for testing.

Command:

AP(config)#apm factory-reset

What can I do if Gateway always in unauthorized list

- Ensure user input correct **WEB password** and Gateway access cloud successfully (**CWMP Config and Status OK**), until Gateway online then Ruijie Cloud will check SN and Password whether correct.
- If WEB password is not correct, please re-input password again at un-authorized list.
- Try Ping Cloud at EG eWEB and check CWMP status as below:

```

Test1#
Test1#sh cw
Test1#sh cwmp status
CWMP status           : enable
Session status        : Idle
Last success session   : 2 PERIODIC
Last success session time : Thu Nov 22 11:14:42 2018

Last fail session      : Retry Session
Last fail session time : Thu Nov 22 08:40:54 2018

Session retry times    : 0
Test1#
Test1#
Test1#
    
```

4. Configuration

Ruijie Cloud 3.1 can manage wireless and switch device as listed in release note. And this chapter will introduce configuration examples for each function.

4.1 What can I do if PPSK Authentication fails?

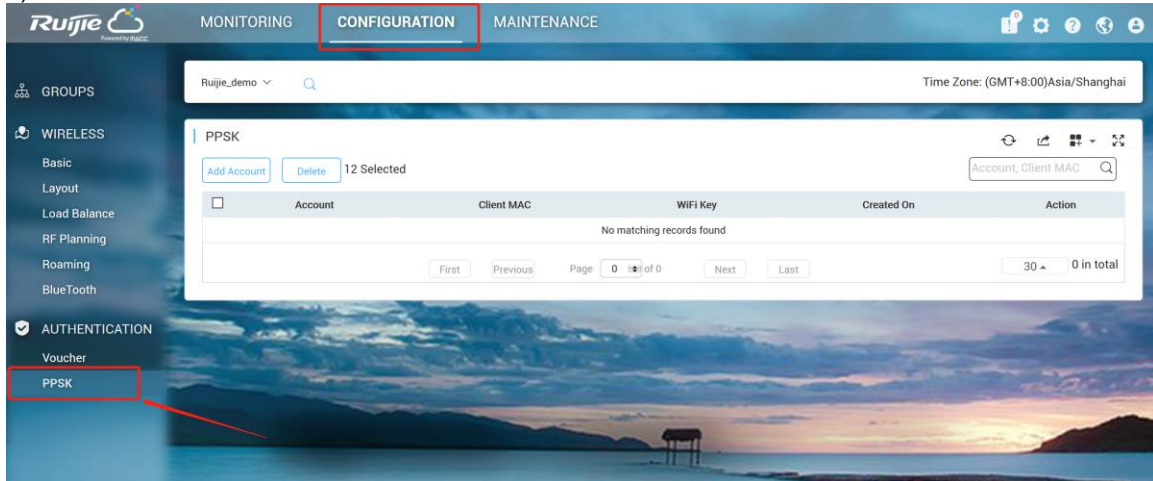
PPSK provides high security by using different passwords for each user and device at individual SSID. The PPSK consists with 2 components:

There are several steps needed to be checked, the contents are shown as below:

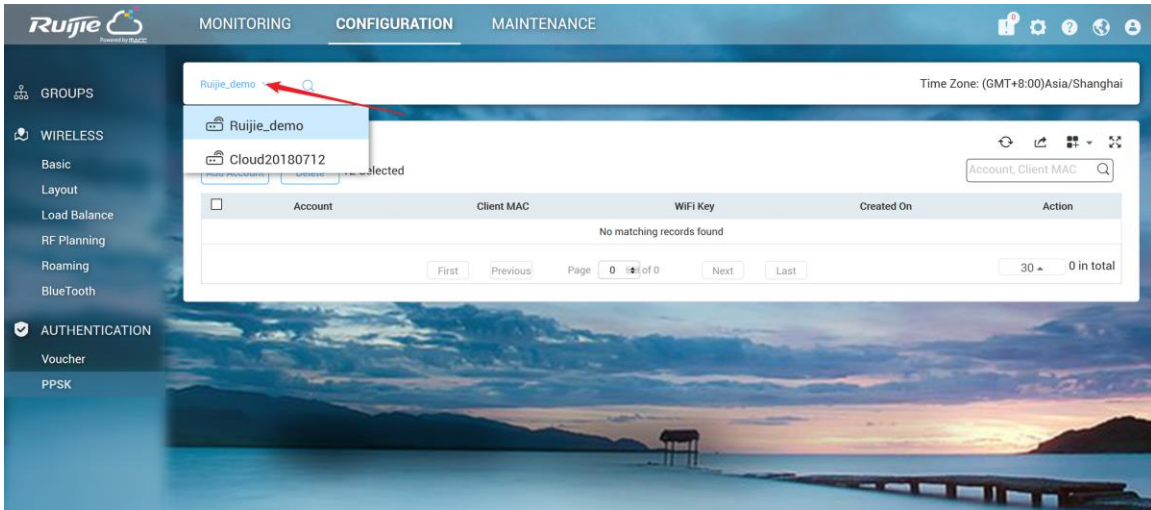
- [Baisc Configuration](#)
- [Function Limitation](#)
- [Further Troubleshooting](#)

Basic Configuration

1) Choose CONFIGURATION->PPSK.



2) Select designated group for PPSK authentication.

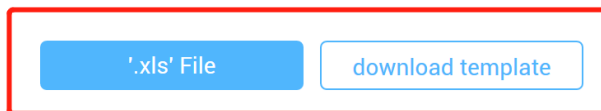


3) Click **Add Account** to initialize Wi-Fi keys for your guest to login your network.

Add Account



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

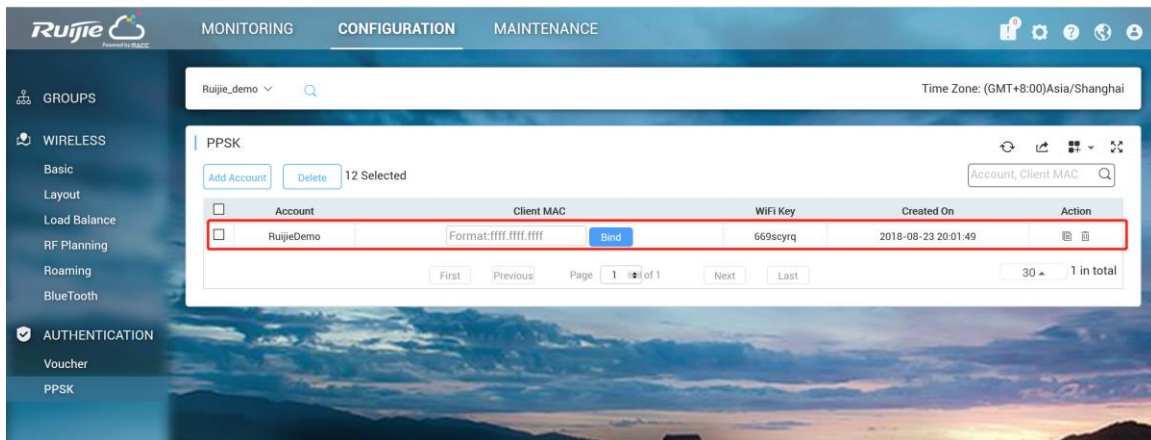


Add Account

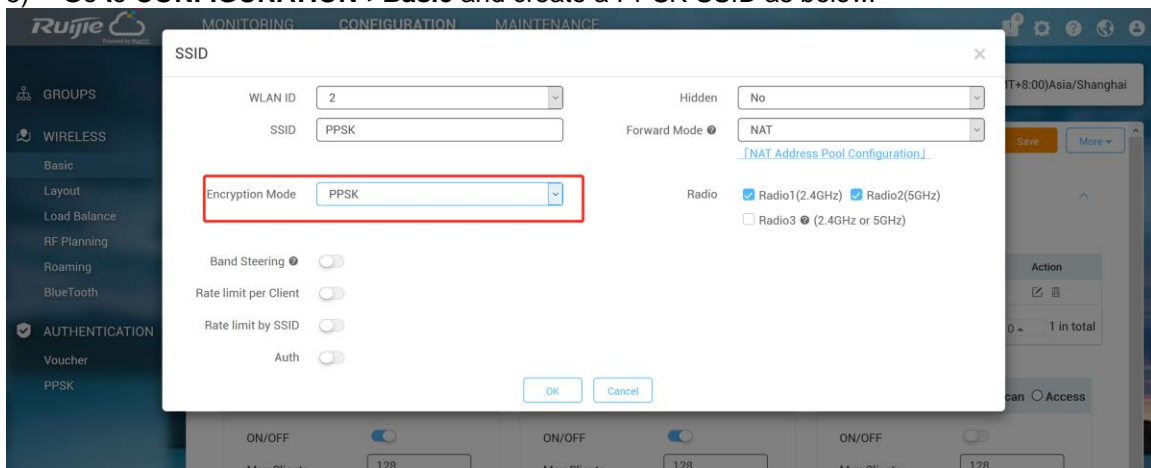


Close

4) After Wi-Fi keys are generated, you can view all the keys for your users. And it will be mapped to specific mac address after the user first time login or binding manually.



5) Go to **CONFIGURATION->Basic** and create a PPSK SSID as below.



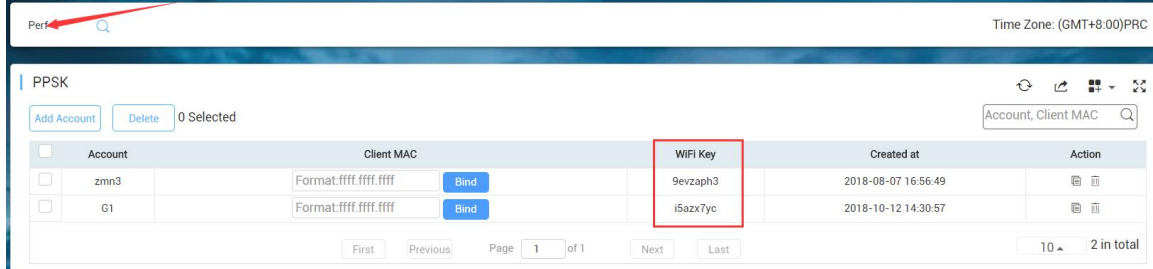
Function Limitation

- The PPSK function only supports importing **1500** passwords.
- PPSK is based on MAC address binding of terminals, and multiple devices under the same user also need to login with different passwords.
- Each AP can only configure **a PPSK authentication SSID**.
- The PPSK password is generated randomly and does not support custom password format.
- The AP can support PPSK only after upgrade to **B40P2** or later version.
- There is no validity date for PPSK, which could be used all the time once created.
- The PPSK could be created manually or by batch import;

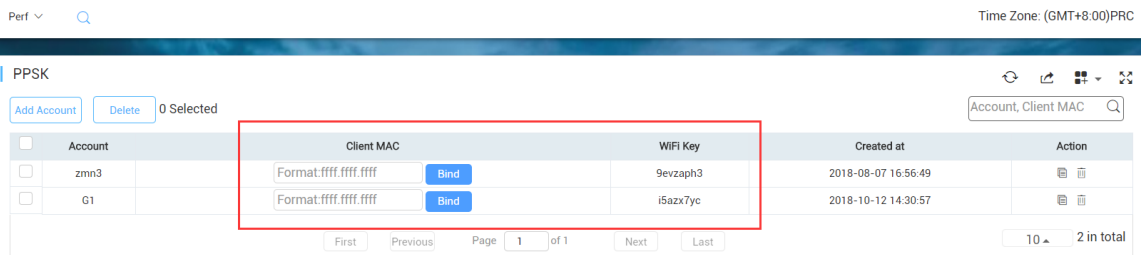
- The AP130(L) does not support PPSK;
- Only the Sub account user who is assigned with the root group is able to configure PPSK.

Further Troubleshooting

- Double check the basic configuration, especially the group you create PPSK;



- Check if the WIFI key has been occupied by other terminals, if yes, the client mac should be bind.



- Check if the WIFI key has been removed or deleted from Ruijie cloud.

How to configure the Voucher Authentication

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

Configuration Steps

- 1) Navigate to **CONFIGURATION->AUTHENTICATION->Voucher**.
- 2) Click **Manage Profile** and **Add Profile** to define a voucher type for your guests.

Add Package ✕

Package Name

Description

Price

Max Concurrent Devices

Bind MAC

Period

Data Quota

Max Download Rate

Max Upload Rate

Note: Max Concurrent Devices: If disabled bind MAC, means MAX concurrent online mobiles; if enabled bind MAC, means MAX bound mobile MAC address even user offline also counted. MAC will be bound at first time login in with Voucher.

3) Back to voucher page and click **Print Voucher**

Voucher 🔄 📄 🗄️ 🔍

● Total Voucher: 0
● Voucher In Use: 0
● Depleted Voucher: 0
Voucher Code, Name/Ref 🔍
Advanced Search ▾

Voucher Code	Name/Ref	Time Period	Created At	Expired At	No. of Devices (Current/Max)	Used Data/Data Limit (MB)	Status
No matching records found							

Page 0 of 0

10 ▾ 0 in total

4) Select the way you want to print voucher codes and fill the quantity if you are selecting Multiple Vouchers.

Cloud20180712 🔍
Time Zone: (GMT+8:00)Asia/Hong_Kong

Voucher > Print Voucher

Single Voucher

Multiple Vouchers

Reprint Voucher

Please enter a positive integer: 1-100

Quantity

Profile Name

Print Method

Profile Details

No. of Devices (Max): 3

Time Period: 1 Day

Data Quota (MB): 500

- 5) Click the **Print** button
- 6) Create an SSID with voucher inner portal on **CONFIGURATION->WIRELESS->Basic**

SSID ✕

WLAN ID	<input type="text" value="2"/>	Hidden	<input type="text" value="No"/>
SSID	<input type="text" value="Voucher-Login"/>	Forward Mode	<input type="text" value="NAT"/> [NAT Address Pool Configuration]
Encryption Mode	<input type="text" value="OPEN"/>	Radio	<input checked="" type="checkbox"/> Radio1(2.4GHz) <input checked="" type="checkbox"/> Radio2(5GHz) <input type="checkbox"/> Radio3 (2.4GHz or 5GHz)
Band Steering	<input type="checkbox"/>		
Rate limit per Client	<input type="checkbox"/>		
Rate limit by SSID	<input type="checkbox"/>		
Auth	<input checked="" type="checkbox"/>		
Mode	<input type="text" value="Inner Portal"/>		
Seamless Online	<input checked="" type="checkbox"/> Enable <input type="text" value="Day"/>		
Login Options	<input type="radio"/> Social Login <input type="radio"/> One-click Login <input checked="" type="radio"/> Voucher		
	<input type="text" value="Status Balance Page"/> <input checked="" type="checkbox"/>		

- 7) (Optional) Click **Sub Account** on top right corner and create an account as voucher operator role who can only view the voucher page.

The screenshot shows the 'Add Account' dialog box in the Ruijie Cloud management interface. The dialog has the following fields:

- Group: Ruijie_demo
- Username: (empty)
- Security Code: (empty) with a 'Get Security Code' button
- Password: (empty)
- Language: English
- Description: (empty)
- Expired: 2999-01-01
- Mobile: (empty)
- Role: Voucher Operator (highlighted with a red box)

Buttons for 'Save' and 'Cancel' are at the bottom right of the dialog.

- 8) (Optional) 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: 10 Activated Vouchers: 0 Depleted Vouchers: 1

nd3uz5 Advanced Search

<input type="checkbox"/>	Voucher Code	Name/Ref	Package Name	Price	Period	Created at	Expired at	Devices	Bind MAC	Data Usage	Max Download Rate	Max Upload Rate	Status
<input type="checkbox"/>	nd3uz5	-	Jack01	10.00	30 Minutes	2018-11-14 10:21:27	2018-11-14 10:55:17	0/9	Yes	3 MB/100 MB	Unlimited	Unlimited	Depleted

First Previous Page 1 of 1 Next Last

10 1 in total

Bound MAC Address List

<input type="checkbox"/>	MAC	Bound at	Total Online Time	Total Traffic	Action
<input type="checkbox"/>	044b.ed3d.c411	2018-11-14 10:25:17	0Days 0Hours 8Minutes 8seconds	2M	-

First Previous Page 1 of 1 Next Last

10 1 in total

What can I do if Wireless STA shows IP address “0.0.0.0” on Client List

There are 2 possibilities may cause this problem:

- No traffic flow upload to AP after client connected
- It will take around 5 minutes to refresh the data on Ruijie Cloud

How to choose 2.4GHz and 5GHz Radio interface for Access Point?

SSID

WLAN ID: 1

SSID:

Hidden: No

Forward Mode: NAT

[\[NAT Address Pool Configuration\]](#)

Encryption Mode: OPEN

Radio: Radio1 Radio2 Radio3

- Radio 1 represent 2.4GHz
- Radio 2 represent 5GHz

How to disable WEB portal page after user roaming to other APs?

In WEB authentication scenario, user can enable “Seamless Online” function on SSID page for seamless roaming.

SSID

WLAN ID	1	Hidden	No
SSID	BJ-Voucher	Forward Mode	Bridge
Encryption Mode	OPEN	VLAN ID	1
Band Steering	<input checked="" type="checkbox"/>	Radio	<input checked="" type="checkbox"/> Radio1 (2.4GHz) <input checked="" type="checkbox"/> Radio2(5GHz) <input checked="" type="checkbox"/> Radio3 (2.4GHz or 5GHz)
Rate Limit per Client	<input type="checkbox"/>		
Rate Limit by SSID	<input type="checkbox"/>		
Auth	<input checked="" type="checkbox"/>		
Mode	Inner Portal		
Seamless Online	<input checked="" type="checkbox"/> Enable		1 Day
Login Options	<input type="radio"/> Social Login <input type="radio"/> One-click Login <input checked="" type="radio"/> Voucher		
	Status Balance Page <input checked="" type="checkbox"/>		

How to configure idle-timeout on Ruijie cloud

- If the auth mode is external portal, you could go to CONFIGURATION -> Basic, edit SSID, and set the idle client timeout on advanced setting;

Auth	<input checked="" type="checkbox"/>
Mode	External Portal
Portal Server URL	
Portal IP	
Portal Port(Optional)	
Gateway ID(Optional)	
Seamless Online	<input type="checkbox"/> Enable(Available only when supported by Auth server)
Idle Client Timeout	<input checked="" type="checkbox"/> Enable Advanced Settings
	In <input type="text"/> (1~65535)minutes, client with traffic cost less than <input type="text"/> (0~4294967294Bytes) will be kicked off.
	<input type="button" value="OK"/> <input type="button" value="Cancel"/>

- If your auth mode is inner portal, you could execute command on CLI page, the example is shown as below:

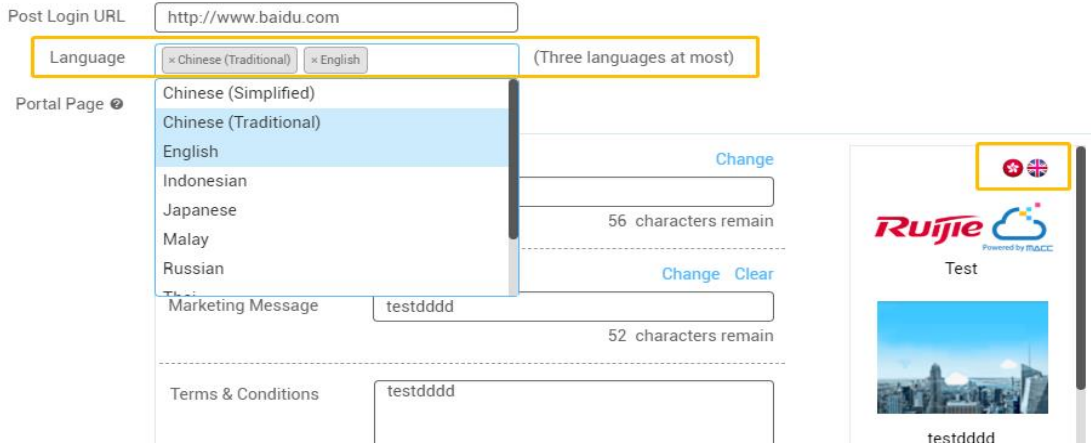
AP(config)#wlansec 1

AP(config-wlansec)#web-auth offline-detect interval ?

<1-65535> In Minutes, default 15

How many language supported on portal page?

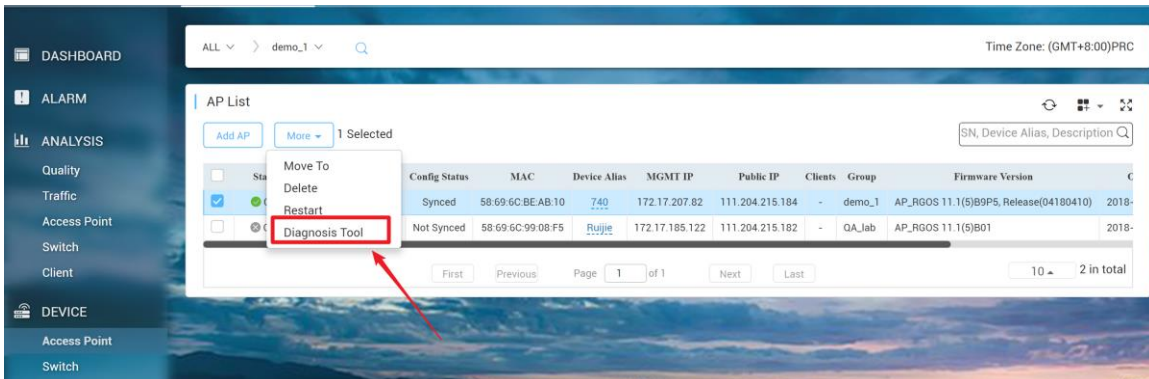
- **10 Languages Supported:** English, Indonesia, Malay, Thai, Turkish, Vietnamese, Russian, etc.
- **3 Languages Selected at Each Time:** can select 3 language for one portal page.



5. Maintenance

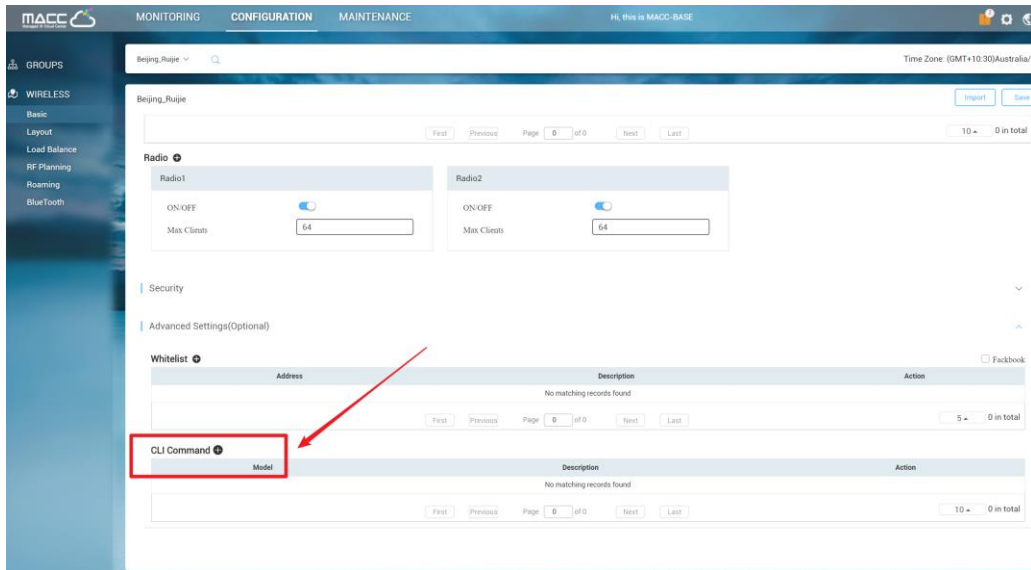
How to use WEB CLI for device on Ruijie Cloud?

Choose designated device and click **More->Diagnosis Tool**



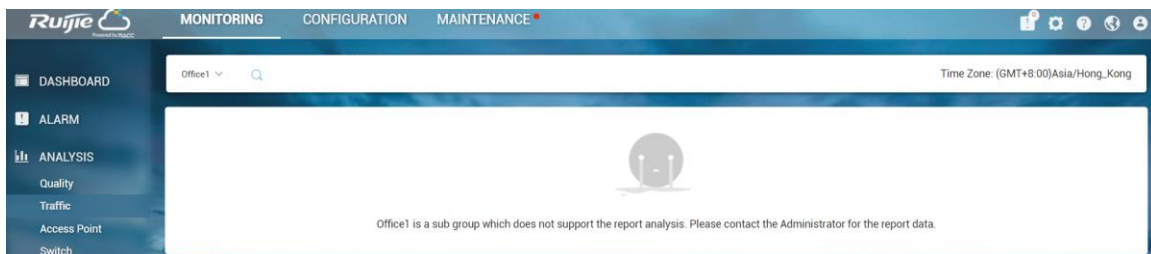
How to configure the function which Ruijie Cloud doesn't support?

Click **CLI Command** on **CONFIGURATION**→**Basic** and add the command that needs to be configured.



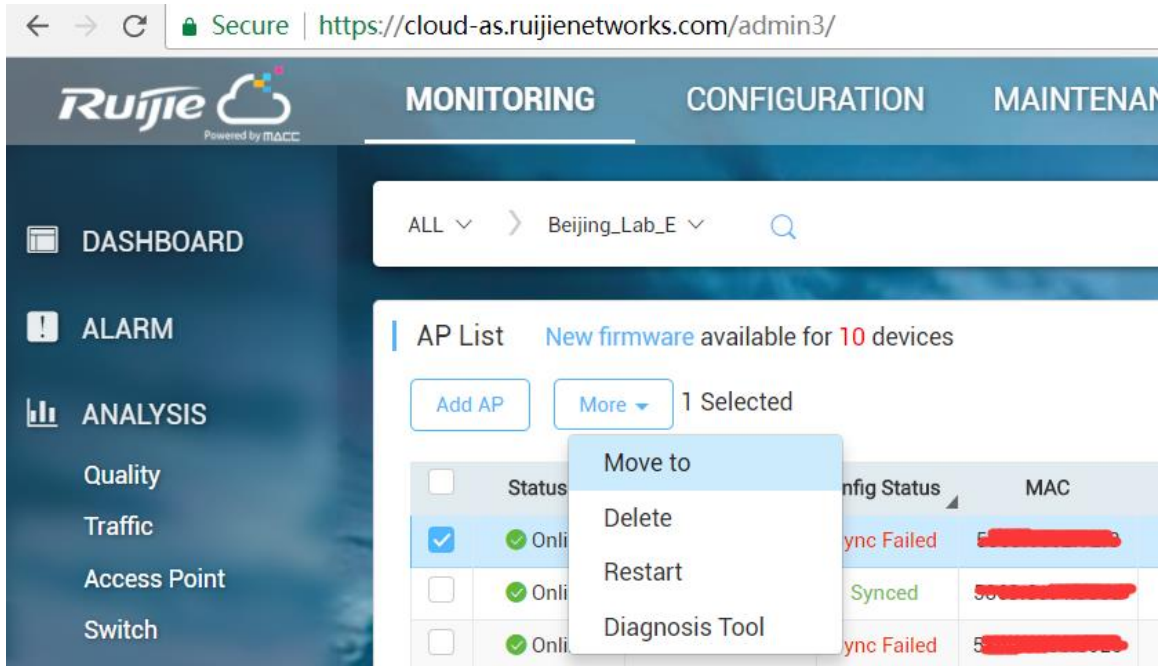
Why there is no traffic displaying on analysis->traffic page?

Only the sub account of layer-1 group can view statistics in Analysis.



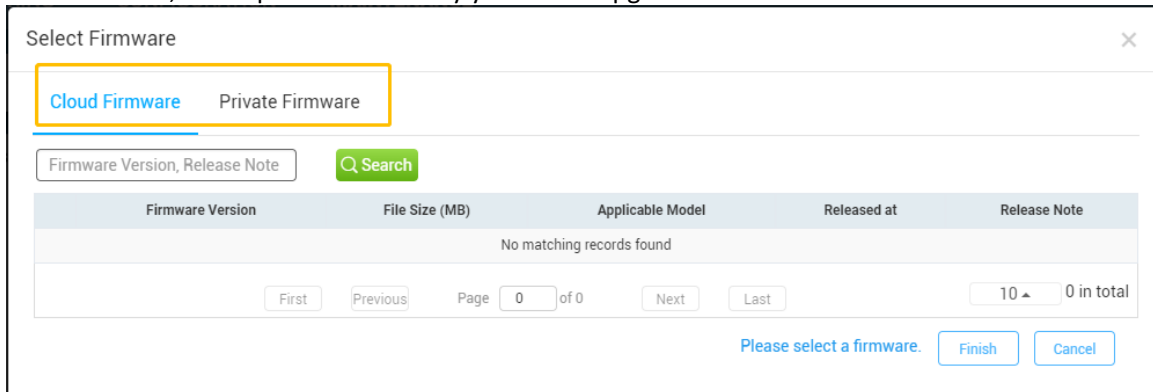
How to move AP from group 1 to other group?

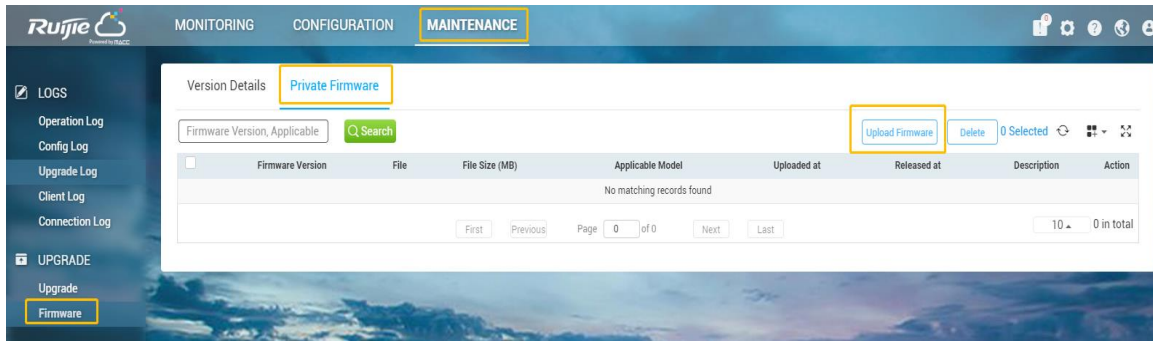
Go to **MONITORING** -> **DEVICE** -> **Access Point** page, select AP, click **More**, choose **move to** on the dropdown list to move the AP to the other group as required.



Why Cannot See Recommended Firmware?

- Every day 4:00 AM (Aisia Cloud UTC+8 4:00AM, Europe Cloud UTC+1 4:00 AM) cloud will check latest firmware and recommend to upgrade.
- If urgently need upgrade the AP, please download the firmware from official website or get from TAC team, then upload firmware by yourself to upgrade.





6. Appendix-- Common Troubleshooting & Debugging Command

Check STA Traffic on AP: *show wqos control flow sta ipv4*

```
520w2#sh wqos control flow sta ipv4
wqos fs sta cnt: 1
mac
-----
8C85.90B2.0D21 up    <    0, 0    > <    35, 4500    > <    612, 72488    >
                down  <    0, 0    > <    27, 9214    > <    435, 76404    >
520w2#
```

AP not traffic display on Cloud: *debug macc log info*

Debug WiFidog Authentication Interaction: *debug web wifidog*

Debug Print More: *debug syslog limit numbers 0 time 0 > y*

Check STA Speed Limit Status: *show wqos con rate-limit sta-info*

```
520w2#show wqos con rate-limit sta-info
wqos r1 sta cnt: 1
 mac address wlan online rate-limit-type up-avg up-burst down-avg down-burst
-----
8C85.90B2.0D21 1 1 static 0 0 0 0
                dynamic 640 640 640 640
520w2#
520w2#
```

Check Root Cause of Facebook Login fail: *debug acl efaci acl-show all*

Web Cli

SN:G1LQ7JR278395 Background color: Clear

- General > Web Cli
- Connecti... >
- Running ... >
- User >
- WLAN >
- Wireless... >
- Web Cli >

```
sn-0xf3000223 etype-0x86dd emask-0xffff protocol-17 dop-3 dpo1-547 dpo2-0 act P--
K-
type: 7 Web_Redirect, the number of list: 4
list id: [0][32769], ace number 14, detail:
sn-0x1a4 etype-0x800 emask-0xffff dstip-31.13.95.12 dstipmask-255.255.255.255 act P--
--
sn-0x1ae etype-0x800 emask-0xffff dstip-203.80.102.17 dstipmask-255.255.255.255 act
P--
sn-0x1b8 etype-0x800 emask-0xffff dstip-31.13.95.36 dstipmask-255.255.255.255 act P--
--
sn-0x1c2 etype-0x800 emask-0xffff dstip-157.240.15.16 dstipmask-255.255.255.255 act
P--
sn-0x1cc etype-0x800 emask-0xffff dstip-31.13.95.8 dstipmask-255.255.255.255 act P--
sn-0x1d6 etype-0x800 emask-0xffff dstip-203.80.102.18 dstipmask-255.255.255.255 act
P--
sn-0x1e0 etype-0x800 emask-0xffff dstip-157.240.15.35 dstipmask-255.255.255.255 act
P--
sn-0x1ea etype-0x800 emask-0xffff dstip-157.240.15.36 dstipmask-255.255.255.255 act
P--
sn-0x1f4 etype-0x800 emask-0xffff dstip-31.13.95.37 dstipmask-255.255.255.255 act P--
-
sn-0x1fe etype-0x800 emask-0xffff dstip-31.13.95.5 dstipmask-255.255.255.255 act P--
--
sn-0x200 etype-0x800 emask-0xffff dstip-203.80.102.18 dstipmask-255.255.255.255 act
```

Command: Send