

# **Ruijie Cloud**

Cookbook V1.3

### Preface

Thank you for using our products.

#### Audience

This manual is intended for:

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

### Symbols

0	Important information	. Contains helpful	suggestions or re	eferences.	

Luse 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**



# Ruijie Cloud Service Feature List:

Deployment	Monitoring
- Seamless Provisioning with Mobile APP	- Global Google Map Dashboard
- Startup Wizard Guide for Initial Setup	- Network/Site Overview (Network total user, total traffic)
- Batch Import for Device Activation	- Device Real-time Monitoring and Alert
- Device Activation by QR-Code Scanning	- User Experience & Summary Report
- Flexible Device Group Architecture	- Mobile Network Monitoring and Alert (Mobile APP)
Optimization	Troubleshooting
- Auto RF Planning (Power & Channel Optimization)	- Web-Cli Remote Debugging Tool
- Band Steering	- Web-Cil Keniole Debugging 1001
Authentication	Advanced Features
- Hotspot WiFi Portal (1-Click Authentication)	- Load Balancing
- Facebook Login	- Wireless L2&L3 Roaming
- PPSK Authentication for Staff	- Multi-level Account Management
	- Firmware Auto Upgrade

# 3. Quick Start

# 3.1. Register Ruijie Cloud Account

1) Access https://cloud.ruijienetworks.com with your browser and Click "**Sign Up**" to create a Ruijie Cloud account.

Welcome to					
	Forget password? Sign up				
©2000-2018 Rulije Networks Co.Ltd   Privacy Policy   Contact Us					

2) Fill in your email address and related info to register an account.

and the second	Register
	Email     Encurity Code     Get Security Code
	A Password
	B Confirm
	📞 Mobile
	Ta Company
	🕙 United States 🔹
	(GMT-8.00)America/Whitehorse 🔻
	Image Verification 3. 8.4. 4
	Sign up
	Already have an account?
	12000-2018 Ruijie Networks Co.Ltd   Privacy Policy   Contact Us

# 3.2. Quick provisioning via Mobile APP

1) Open WeChat APP and scan Ruijie Cloud QR-Code.

7:57 PM O ¥ 67 ⊠ 47 ad HD 0 WeChat (80) Q +		7:54 PM ← Pro	៖ ଊ ऌ कai ⊨o ⊂.∎ file
Moments		8	RuijieCloud
Scan QR Code	- Interviewer	Intro	Welcome to Ruijie Wechat Official Account, Flexible wireless network management and monitoring tool for
Top Stories		Account	you. ❷ 说捷网络股份有限公司
☆ Search		Related Mini	Programs
<ul> <li>People Nearby</li> <li>Message in a Bottle</li> </ul>	回数次数据	View Histo	ory
Games		View locat	ion
WeChat Contacts Discover Me	1		Follow



2) Follow the Ruijie Cloud account and add devices as following illustration:

- a) Click "Provisioning" and Login your Ruijie Cloud account to get start.
- b) Select "Create Networks" to create a network for your devices.
- c) Fill out the network info and SSID name and password to protect your network security.
- d) Click "Add Device" to add wireless or wired devices to cloud.
- e) Choose "Scan QR code" to scan the QR-code on device's back panel(Recommended).
- f) It will fill in device's basic info automatically and click "Confirm" to finish wizard.

**()** For S2910 series, it requires to configure CWMP template under command line. The configuration sample as below:



And management IP address and DNS domain should be configured correctly for internet access.

## 3.3. Verification

Log in to Ruijie Cloud and click **Access Point** or **Switch** on **MONITOR** > **DEVICE** to check whether the device is online.



# 4. Configuration Guidance

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. Wireless Devices

# 4.1.1. WIFI Configuration

In this section will introduce how to create SSID for AP device.

# **General Setting**

In WiFi Setting page, Ruijie Cloud support wireless basic functions as follow:

- Authentication: Open, PSK, PPSK, Dot1x with 3<sup>rd</sup> party radius server, WiFidog authentication, One Click Authentication, Facebook Login
- **SSID Advanced Setting**: SSID QOS, Bridge/NAT working mode, Band Steering, Seamless authentication
- Radio Setting: Maximum Connectors
- Security: Web Login Password, Wireless Attack Defence
- Advanced Features: Whitelist, CLI Command Batch Delivery

## **Configuration Steps**

1) Choose CONFIGURATION -> WIRELESS->Basic in designated device group

	5 MONITORING	CONFIGURATION	MAINTENANCE	Section and			<b>0</b> 00
ക് GROUPS	Beijing_Ruijie ~ 📿	1				Time Zone: (GMT+	10:30)Australia/LHI
& WIRELESS Basic	Beijing_Ruijie					Im	port Save
Layout Load Balance RF Planning	Wireless Configu	uration					~
Roaming BlueTooth	WLAN ID	SSID Encrypt	tion Mode Hidden No matching	Forward Mode	Radio	Auth Mode	Action
	-	First	Previous Page 0 of 0	Next Last		10	• 0 in total
	Radio O						

2) Click "+" to create a SSID for the devices under this group

	MONITORING CONFIGURATION MAINTENANCE	0 0 C
க் groups	Beijing.Ruije V 🛛 Q	Time Zone: (GMT+10:30)Australia/LHI
🙁 WIRELESS	Beijing_Ruijie	Import Save
Basic Layout Load Balance RF Planning	Wireless Configuration SSID	<u>~</u>
Roaming	WLAN ID SSID Encryption Mode Hidden Forward Mode Radio	Auth Mode Action
BlueTooth	No matching records found	
-	First Previous Page 0 of 0 Next Last	10 🔺 0 in total
	Radio 💿	
	Radio1 Radio2	
	ON/OFF     ON/OFF       Max Clients     64         Max Clients     64	
	Security	~

3) In SSID setting page, user can create an SSID and fill in related parameters based on customer requirements.

SSID					×
WLAN ID	Please enter the SSID	¥	Hidden	No	•
SSID	Ruijie-Demo		Forward Mode @	NAT	•
				[NAT Address Pool Configuration]	
Encryption Mode	OPEN	Ŧ	Radio	🗸 Radio1 🗸 Radio2 🗌 Radio3	
	OPEN				
Band Steering	WPA-PSK				
Rate limit per Client	WPA2-PSK				
Rate limit by SSID	WPA2-Enterprise(802.1X)				
Auth					
		ОК	Cancel		

**WLAN ID**: Sequence number to represent SSID ID (Up to 32 SSID is supported, there may be differences between diverse models)

Hidden: Choose disable broadcasting SSID or not

SSID: WiFi Name

#### Forward Mode:

NAT mode or bridge mode. NAT mode: AP will work as a router and DHCP pool to provide IP address for terminal stations.

Bridge mode: AP will work as a switch and passthrough all traffic. It requires the user to fill in specific VLAN ID for STA.

(If not familiar with existed network design, NAT mode is recommended)

### **Encryption Mode:**

OPEN: Open SSID and password is not required

WPA-PSK: Use WPA algorithm to encrypt SSID and password is required

WPA2-PSK: Use WPA2 algorithm to encrypt SSID and password is required

WPA2-Enterprise(802.1x): Dot1x authentication and external radius server is required

Radio: generally, Radio 1 represent 2.4Ghz and Radio 2 represent 5Ghz.

**Band Steering**: detect clients capable of 5 GHz operation and steers them to that frequency which leaves the more crowded 2.4 GHz band available for legacy clients. (Please ensure 5G Radio Interface is enabled)

Rate limit per Client: Upload and download speed limitation for each client on this SSID

Rate limit by SSID: Total throughput (upload & download) on this SSID

#### Auth:

Portal Server URL: external wifidog portal server URL for user login

Portal IP: Portal server IP address

Portal Port: Port number for landing page redirection. Default is 80

Gateway ID: Gateway ID value for wifidog

Seamless Online: Seamless auth on STA connected to SSID second time. Authentication server supports seamless feature is required.

Idle Client Timeout: User will be kicked if low traffic or no traffic passthrough in specific period

#### 4) Turn on the RF and fill in Max Clients value as required

#### Radio 🕒

Radio1	Radio2
ON/OFF	ON/OFF
Max Clients 64	Max Clients 64

A The Max Clients of each Radio Interface is 32 by default.

5) Click Save on the top right corner to save all changes and take effect

Beijing_	Ruijie 🗸 🛛 🤇	2					Time Zone: (GMT+10:	:30)Australia/LHI
		1000	-			1000000		
Beijing	_Ruijie						Impo	rt Save
Wir	eless Configu ) 🕈	uration						^
	WLAN ID	SSID	Encryption Mode	Hidden	Forward Mode	Radio	Auth Mode	Action
				No matching	records found			
			First	Page <b>0</b> of 0	Next		10 🛋	0 in total
Radi	o 🔁							
1	Radio1			Radio2				
	ON/OFF			ON/OFF				
	Max Clients	64		Max Clients	64			

## **Advanced Setting**

#### Web/Telnet Password

Allows user to edit WEB UI and Telnet password for security concerns.

#### Web Password

Web Password	Tip: The password for AP web login.
Telnet Settings	
Telnet Enable	
Telnet Password	Tip: The password for AP telnet login.

#### Isolation

Client Isolation is to isolate all traffic (unicast, multicast, broadcast) for each user.

#### **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**

Wireless Intrusion Detection can monitor STA behavior and prevent damage to network caused by anonymous hacker.

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)

#### Whitelist

Whitelist feature can bypass those addresses or traffic on the list before STA completes authentication process.

Whitelist 🖨					Fackbook		
	Address		Des	cription	Action		
	No matching records found						
		First	Page 0 of 0	Next	5 👞 0 in total		

#### **CLI Command**

CLI Command provides a window for user to exec cli setting which not be support in Ruijie Cloud UI.

CLI Command 🕀								
Model	Description							
	No matching records found							
	First Previous Page 0 of 0 Next Last	10 🛋 0 in total						

### **One-Click Authentication/Facebook Login**

One-Click/Facebook authentication allows the user to design your own portal page for you network by using web authentication.

**One-Click Login**: Access network by clicking login button.

Facebook Login: Use Facebook account to login Wi-Fi network.

#### **Configuration Steps**

Create an SSID with **OPEN** encryption mode and select **Inner Portal** mode for authentication. User can customize captive portal page design and post login page on this page.

				_
ID				
WLAN ID	2 •	Hidden	No	
SSID		Forward Mode @	NAT	
			NAT Address Pool Configuration	
Encryption Mode	OPEN 🔻	Radio	🗹 Radio1(2.4GHz) 🔽 Radio2(5GHz)	
			Radio3 @ (2.4GHz or 5GHz)	
Band Steering Ø				
Rate limit per Client	$\bigcirc$			
Rate limit by SSID				
Auth				
Mode	Inner Portal 🔻			
Seamless Online 🛛	C Enable Day 🔻			
Login Options	📀 Social Login	7		
	Facebook Account			
	Facebook Like			
	One-click Login @			
	O Voucher			
Post Login URL	https://www.ruijienetworks.com	-		

## **PPSK** Authentication

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

# **Configuration Steps**

1) Choose CONFIGURATION->PPSK.

		MONITORING	CONFIGURATION	MAINTENANCE			6 8 8 9
கீ	GROUPS	Ruijie_demo 🗸 📿				Time Zone:	(GMT+8:00)Asia/Shanghai
2	WIRELESS Basic	Add Account Del	ete 12 Selected			Α.	C L II - X
	Layout	Acc	ount	Client MAC	WiFi Key	Created On	Action
	RF Planning			No matching	records found		
	Roaming BlueTooth		First	Previous Page 0 😖 of (	Next Last		30 🔺 0 in total
0	AUTHENTICATION			A REAL	-		
	Voucher	The Duman					
	PPSK						The sea
					11		

2) Select designated group for PPSK authentication.

		FIGURATION MAINTENANCE	15 Section		<b>1</b> 0 0 0 0
க் groups	Ruijie_demo			Time Zone	: (GMT+8:00)Asia/Shanghai
Basic	Cloud20180712	lected		A	O ピ ♯ → X ccount, Client MAC Q
Load Balance RF Planning	Account	Client MAC	WiFi Key Io matching records found	Created On	Action
Roaming BlueTooth		First Previous Page	0 en of 0 Next Last		30 🔺 0 in total
AUTHENTICATION     Voucher		and the	a straight of	-	
PPSK					
					ILTER

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

X

	'.xls' File download template	
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.

		URATION MAINTENANCE	and the second second	6 0 1	8
க் groups	Ruijie_demo 🗸 📿			Time Zone: (GMT+8:00)Asia/Sha	anghai
Basic	Add Account Delete 12 Select	ted		Account, Client MAC	- X Q
Layout Load Balance	Account RuijieDemo	Client MAC	WiFi Key 669scyrq	Created On Action 2018-08-23 20:01:49	
Roaming		First Previous Page 1 et of 1	Next	30 <b>a</b> 1 in	total
	-	The second second	-	-	
Voucher PPSK		the shake have -			
A REAL PROPERTY.					-

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

į	Ruíjie	MONITORING	CONFIGURATION	MAINTENANCE				1 0 0 0 0
	The second se	SSID					×	
÷	GROUPS	WLAN ID	2	~	Hidden	No	~	IT+8:00)Asia/Shanghai
٩	WIRELESS	SSID	PPSK		Forward Mode @	NAT	~	Save More -
	Basic					[NAT Address Pool Configuration]		
	Layout	Encryption Mode	PPSK	~	Radio	🔽 Radio1(2.4GHz) 🔽 Radio2(5GHz)		~
	Load Balance					Radio3 @ (2.4GHz or 5GHz)		
	RF Planning							
	Roaming	Band Steering @						Action
	BlueTooth	Rate limit per Client	0					
	AUTHENTICATION	Rate limit by SSID	0					0 a 1 in total
	Voucher	Auth						
	PPSK			ОК Са	ncel			can O Access
		ON/OFF		ON/OFF	-	ON/OFF		
		Max Clients	128	Max Clients	128	Max Clients	128	

### **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.

	MONITONING CONT	GORATION MAINTEN	ANGE			
	Ac	d Profile		×		
蟲	Cloud20180712 ~ Q	Profile Name	Guest-Type1	•	Time Zone	(GMT+8:00)Asia/Hong_Kong
2	Voucher Manage Profile	No. of Devices (Max)	3 •			0
	Add Profile	Time Period	1 Day 🔻	)		Profile Name Q
		Data Quota (MB)	500 *			
	Profile Name				Data Quota (MB)	Action
1			UK Cancer			
3			Presidente Partie 0 of 0			10 . 0 in total
		Pilot	Presidue Page 0 oro	/regin C.000/		
0	- marker		in and			
8						
a da						
		and the second s				
						and the second s

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

Vouche	er							4	0 ₫	4 - X
Print Vol	Manage Profile	More 👻	Total Voucher: 0	Voucher II	n Use: 0 🛛 🛑 De	pleted Voucher: 0		Voucher Code, Name/Ref Q	Advanced S	Search $\vee$
	Voucher Code	Name/Ref	Time Period	Created At	Expired At	No. of D	evices (Current/Max)	Used Data/Data Limit (MB)	s	Status
					No match	hing records found				
			First	Previous	Page 0	of 0 Next	Last		10 🔺	0 in total

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

ឝំ	GROUPS	Cloud20180712 ~ Q	Time Zone: (GMT+8:00)Asia/Hong_Kong
2	WIRELESS Basic Layout Load Balance RF Planning Roaming	Voucher         Print Voucher           Single Voucher         Quantity         60         •         Profile Details           Profile Name         Guest-Type1         •         No. of Devices (Max): 3 : Time Period: 1 Day           Print Method         PRINT (A4) ONE COLUMI         •         Data Quota (MB): 500	
0	AUTHENTICATION Voucher PPSK	Reprint Voucher	

#### 5) Click the **Print** button

6) Create an SSID with voucher inner portal on **CONFIGURATION->WIRELESS->Basic** 

SSID				×
WLAN ID	2 ~	Hidden	No	$\sim$
SSID	Voucher-Login Forwar	d Mode 🞯	NAT	~
			[NAT Address Pool Configuration]	
Encryption Mode	OPEN v	Radio	🗸 Radio1(2.4GHz) 🔽 Radio2(5GHz)	
			Radio3 @ (2.4GHz or 5GHz)	
Band Steering @				
Rate limit per Client				
Rate limit by SSID	$\bigcirc$			
Auth				
Mode	Inner Portal 🗸			
Seamless Online 🛛	C Enable Day v			
Login Options	O Social Login			
	O One-click Login @			
	Voucher			
	Status Balance Page 🛛 🔍			

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

	G CONFIGURATION	MAINTENANCE *		60001
ALL ~ > Ruijje_demo ~	Group :	Ruijie_demo		Time Zone: (GMT+8:00)Asia/Shanghai
Account List	Username :			0 #• X
Username,Full Name,Mobile,Err	arch Security Code :	Get Sec	urity Code 🔸	
Username	Role Password :			Email Action
	Language :	English		
	Description :		*	10 🖌 0 in total
	Expired :	2999-01-01		Add
	Mobile :			
	Role :	Voucher Operator	<b>Y</b> 0	
			Save	

8) 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.

Vooner] [4	mage Package	-	• Total V	/ouchers: 10	• Activated	Vouchers 0	• Depleted	Vouchers 4	1		E	t)uză-	D Aba	inced Search
Vourher Cod	Name/fed	Package Name	Price	Period	Ow	nel at	Equi	d at	Devices	Bird MAC	Data Usage	Max Dyseriead Rate	Max Upload Fo	in Data
=f3ur5	1.0	Jack01	10.00	20 Minutes	2018-11-	14 10 21 27	2018-11-1	10.55.57	0.9	Yes 🔝	3.86/105148	Intended	Unlimited	Deplete
													10	- T in 10
und MA	C Addre	ess List	7	. Feg	Paritak	Page 1	un .	- Next	Las					
und MA	C Addre	iss List		- feat	Pressue	Page [_1		- Sect	Total 0	mline Tim	•)	Tota	il Traffic	Action
und MA	C Addre M 0445 e	ess List MC		8 2018-1	Iound at	Page   1		ODays (	Total O	Inline Tim Minutes	e Eseconds	Tota	al Traffic 2M	Action

### 9) (Optional) Seamless Online Policy

Seamless Online Policy: based on SSID and Tenant to go online directly, means first time login in, if you connect to the same SSID and APs belong to the same tenant, you can seamless online, not need input account again, valid for Facebook, Voucher, one-Click login.

			$\times$
• Cloud_Voucher	] Hidden Forward Mode @	No NAT I NAT Address Pool Configuration 1	*
EN •	] Radio	✓ Radio1(2.4GHz) ✓ Radio2(5GHz) □ Radio3 Ø (2.4GHz or 5GHz)	
ner Portal	•		
Enable Always 1 Day 1 Day 1 Week 1 Month Always /oucher	•		
ne E So Dn	r Portal inable cial Login e-click Login © ucher Status Balance Page ©	r Portal   nable Cial Login e-click Login ucher  Status Balance Page	r Portal  anable cial Login e-click Login ucher Status Balance Page

# 4.1.2. Layout Planning

Layout Planning allows user to import floor plan to Ruijie Cloud and binds AP to specific location as deployment.

# **Configuration Steps**

1) Choose CONFIGUARTION->Layout and click Config Layout to add floor plan to Ruijie Cloud.



2) Drag the AP from un-bond AP list to floor plan to bind AP to specific location.

		MONITORING CONFIGURATION MAINTENANCE	🔮 🛛 🔮
ஃ	GROUPS	Beijing_Ruijie × Q	Time Zone: (GMT+10:30)Australia/LHI
2	WIRELESS Basic	Layout Layout: Floor2 V Config Layout 📋 Remove AP	
	Layout Load Balance RF Planning Roaming BlueTooth	0 50 100 150 200 250 300 350 400 450 500 500 600 650 700 750 600 850 900 990 100	Unbound AP List        ap-720       SH-61LQ68P003245       Type AP720-I

# 4.1.3. Load Balance

Ruijie Cloud load balance feature can dynamic allocate STA to each AP equally in high density scenario.

# **Configuration Steps**

1) Click Add on **CONFIGUARTION->Load Balance** to create load balance group

		MONITORING		IAINTENANCE		000
ക്	GROUPS	Beijing_Ruijie ∽ Q			Time Zone: (GMT+10:30)Ar	ustralia/LHI
٩	WIRELESS	Load Balance Group	List		0	<b>#</b> - 12
	Basic		Group	Status	Action	
	Layout			No matching records found		
	RF Planning					Add
	Roaming			and the second	-	-
	BlueTooth	12 Historical Record 2018-02-06 17:00	2018-02-06 18:00	Q Search No Data		

2) Click edit icon to add access point into load balance group and turn on group status.

تے ۳۹۹۳	MONITORING CONFIGURATION MAINTENANCE	e 🔊 😋 🍟
க் GROUPS	Beijing_Ruijie × Q	Time Zone: (GMT+10:30)Australia/LHI
🙁 WIRELESS	Load Balance Group List	0 <b>#</b> - 11
Basic Layout	Greup Status	Action
Load Balance		Add
Roaming		
BlueTooth	Historical Record           2018-02-06 17:00           2018-02-06 18:00           Search             No Data_	

### 4.1.4. RF Setting

The RF Setting provides a global setting of wireless country code, bandwidth and intelligent channel/power planning.

### **Radio Setting**

Country code enables you to specify a particular country of operation and it ensures each radio's broadcast frequency bands, interfaces, channels, and transmit power levels are compliant with country-specific regulations. Frequency bandwidth determine how many non-overlap channels can be used for your AP to reduce RF interference.

### The best practice for user experience is 2.4GHz in 20MHz, 5GHz in 40MHz.



### 802.11ac Channel Allocation (N America)



	MONITORING CONFIGURATION MAINTENANCE	e 🔒 🖉 🕹
品 GROUPS	Beijing,Ruijie V 🔍 Q	Time Zone: (GMT+10:30)Australia/LHI
🙁 WIRELESS	Radio Settings	~
Basic	Country : United States(US) •	
Layout	BF1(2.4G) Default Bandwidth 20MHz *	
Load Balance	BE2(5G) Default Bandwidth 40MHz T	
RF Planning		
Roaming	RF3(5G) Default Bandwidth	
BlueTooth	Save	

### **Auto Planning**

Auto Planning works as a smart RRM function. It can help user to evaluate network channel and power status and provides recommended parameters by its intelligent algorithm.

ΠA	<u>s</u> ⊆C	MONITORING CONFIGURAT	ION MAINT	ENANCE	Sec. and		🔮 🛛 🔮
க் GRC	DUPS	Beijing_Ruijie ∨     Q				Time Zone: (GN	/T+10:30)Australia/LHI
Basi Layo	ic put	Auto Planning			Custom Channel	Recent RF Scan History	<ul> <li>Schedule Settings</li> </ul>
Load RF P Roar	d Balance Planning ming		Scan Mode:	In-Service Scan	stable and the scan covers	Out-of-Service Scan	nt network will be
Blue	:Tooth			<ul> <li>Some signals may no</li> </ul>	ot be scanned.	The network may be diverse signals may reference signals may	sconnected and iot be scanned.
			Sync to Device :				

Custom Channel: Allows user to select specific channel for channel planning

Recent RF Scan History: Records all scanning history and recommended value after scanning

Schedule Settings: Periodic scanning setting for access point

In-Service Scan (Quick Scan):

- The WiFi service won't be interrupted during scanning process.
- The scanning result may not include all interference.

Out-of-Service Scan (Deep Scan):

- The result will cover almost all WiFi interference.
- The WiFi service will be interrupted during scanning process (disconnect and reconnect) and it will take around 30 minutes

Sync to Device: Whether sync the recommended setting to APs after scanning

#### **Manual Planning**

Manual Planning enables user to select designated AP and change the channel and power setting.



A Only AP740-I can support Radio 3 setting

# 4.1.5. Roaming

Ruijie Cloud roaming function allows STA from AP-1 roaming to AP-2 subnet B seamlessly. User can turn on the layer 3 roaming and layer 2 roaming on **Roaming** page.

<ul> <li>GROUPS</li> <li>WIRELESS Baic Layout Load Balance RF Planning BlueTooth</li> </ul>		MONITORING CONFIGURATION MAINTENANCE COMPONENTS-	e @ ¤
VIRLESS Bare Layout Load Balance RF Planning BlueTooth          Builde demo Roaming Setting         Layer3 Roaming :         Layer3 Roaming :         With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:    With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:          With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:    With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:      With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:	க் GROUPS	Rujje_demo V 🛛 Q	Time Zone: (GMT+8:00)Asia/Shanghai
	VIRELESS Basic Layout Load Balance RF Planning Roaming Blue Tooth	Rulie demo Roaming Setting         Lyer3 Roaming :       Lyer2 Roaming :         With roaming function enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabled, users can achieve zero-handoff roaming within the WiFi coverage area. Example:         Image: Construction enabl	

In web authentication scenario, seamless authentication function should be turned on to improve user roaming experience.

### 4.1.6. BlueTooth

BlueTooth is used for the AP which supports iBeacon feature to broadcast iBeacon signal.

### **Configuration Steps**

1) Click "Add" to iBeacon parameters to designated AP. Or click "Import" for batch configure.

		MONITORING	CONFIGURATION	MAINTEN	ANCE				🔓 🛛 🕲 😝
ቆ	GROUPS	ALL $\vee$ ) Beijing_Rui	je Y Q					Time Zone: (GMT+	10:30)Australia/LHI
٩	WIRELESS	Device Info							0 # - X
	Basic Lavout	SN	Q Search						And where is a second
	Load Balance	Device	SN Status	UUID	MAJOR	MINOR	Group	AP Name	Action
	RF Planning				No matching records	found			
	Roaming		First	Previous	Page 0 of 0	Next Last			10 🖕 0 in total
1	BlueTooth							Â	dd Import
						-	500	1	

2) Fill in AP serial number (needs to be online) and iBeacon parameters which are provided by iBeacon service provider.

Bluetooth		×
Device SN :		*
Status :		
UUID :		*
MAJOR :		*
MINOR :		*
	Save	Close

3) Verify by using "nRF Master Control Pannel" APP on Android phone.

#### Ruijie Cloud Cookbook V1.3



# 4.2. Switch Device

### **Configuration Steps**

1) Click designated switch on **MONITOR** > **Switch**.



2) Click **General** or **Advanced** to configure the switch.

1	Ruíjie	MO	VITORI	NG	CONF	IGURAI	ION	MAINT	ENAN	CE				Please che	eck vour a	ccount		
	Powered by MACC	Device D	etails	( \$2910	) ( OC											×		
	DASHBOARD		-	_													Ruijie	× *
		Active	[_] Inac	tive	Disable									] Trunk Port	Coppe	erSFP		
	ALARM	1	3 5	7 9	11 13	15 17 1	9 21 23	25										- # + 2
<u>lı</u>	ANALYSIS		ÖÐ	đ	<b>i</b> Ö		566										Device A	lias, Descrij O
		2	4 6	8 10	12 14	16 18 2	0 22 24	26									on D	escription Actio
						enter.	1										1)8183	-
		Overviev	N Ge	neral	Advand	ed											1)011-0	
	Access Point	-		k													10 .	1 in total
		P	ort List													~		
					$\backslash$												The state	
6	DEVICE				N									0	₩ ₩ ₩			
				Port ID	POE Enable	POE Status	Port Enable	Port Status	Speed	Speed Setting	Mode	Port Type	VLAN	Description	IP Action		-	
				Gi0/1	Enable	On	Enable	Up	1000M	1000M	Duplex	TRUNK	native:50 allowed:ALL				-	
10				Gi0/2	Enable	Off	Enable	Down		Auto	auto	ACCESS	66					-
<b>B</b> 5.				Gi0/3	Enable	Off	Enable	Down		1000M	Duplex	TRUNK	native:50 allowed:ALL		$\mathbb{Z}$		-	
				Gi0/4	Enable	Off	Enable	Down		Auto	auto	ACCESS	1					
				Gi0/5	Enable	Off	Enable	Down		Auto	auto	ACCESS	2		Z		and the second second	
				Gi0/6	Enable	Off	Enable	Down		Auto	auto	TRUNK	native:1 allowed:ALL		R			
				Gi0/7	Enable	On	Enable	Up	1000M	Auto	auto	ACCESS	2		Z			
				Gi0/8	Enable	Off	Enable	Up	1000M	Auto	auto	ACCESS	66					
				Gi0/9	Enable	Off	Enable	Down		Auto	auto	ACCESS	2		Z			
				Gi0/10	Enable	Off	Enable	Down		Auto	auto	ACCESS	1		Pi			

# 4.2.1. Port Setting

Port setting enables user to manage switch interface, including port status, speed, VLAN and SVI.

**Configuration Steps** 

# 1) Click edit button on **General** page of device detail.

Active 🗋 Inactive 💼 Disable	Device Details ( 2910 )
	Active 🗋 Inactive 💼 Disable
1       3       5       7       9       11       13       15       17       19       21       23       25       27         2       4       6       8       10       12       14       16       18       20       22       24       26       28	1         3         5         7         9         11         13         15         17         19         21           2         4         6         8         10         12         14         16         18         20         22



Poi

										ତ ₩ •
Port ID	POE Enable	POE Status	Port Enable	Port Status	Speed	Speed Setting	Mode	Port Type	VLAN	Description IP Action
Gi0/1	Enable	Off	Enable	Up	100M	Auto	auto	TRUNK	native:1 allowed:ALL	
Gi0/2	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/3	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/4	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/5	Enable	Off	Enable	Down		Auto	auto	ACCESS	11	
Gi0/6	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/7	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/8	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/9	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	
Gi0/10	Enable	Off	Enable	Down		Auto	auto	ACCESS	1	

2) Modify interface setting as required.

# Edit Gi0/1

POE Enable	Enable 🔻
Port Enable	Enable <b>v</b>
Speed Setting	auto 🔻
Duplex Mode	auto 🔻
Туре	Trunk <b>v</b>
Native VLAN	1 *
Allowed VLAN	ALL
Description	
L3 Port	Click to set as L3 port

#### OK Cancel

# 4.2.2. VLAN Setting

# **Configuration Steps**

1) Click Add VLAN to create VLAN/SVI.

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#### Device Details (2910)

ctive	Inact	ive Dis	sable									T Trunk F	Port Coppe	er [
1 3 1 3 2 4	5   (   ( 6	7 9 11 7 0 0 8 10 12	13 15 13 15 14 16		21 23 2 2 2 2 2 24	25 27 26 28								
view	Gei	neral /	Advanced	ł										
		Gi0/5	Enable	Off	Enable	Down		Auto	auto	ACCESS	11			
		Gi0/6	Enable	Off	Enable	Down		Auto	auto	ACCESS	1			
		Gi0/7	Enable	Off	Enable	Down		Auto	auto	ACCESS	1			
		Gi0/8	Enable	Off	Enable	Down		Auto	auto	ACCESS	1			
		Gi0/9	Enable	Off	Enable	Down		Auto	auto	ACCESS	1			
		Gi0/10	Enable	Off	Enable	Down		Auto	auto	ACCESS	1			
			First	Prev	vious F	Page 1	of 3	Ne	ext	Last		10 🔺	28 in total	
	N List Add VL	AN Bate	ch Delete VLA	Name		Port ID				IF	3	1	Action	~
		1	VLAN000	1	Gi0/1	-4.Gi0/6-24.	Te0/25-28						R	
		10	VLAN001	0		Gi0/1			IP	IPv4 Address: v4 Netmask:	192.168.1. 255.255.2	25 55.0	ت آ	
		11	VLAN001	1		Gi0/1,Gi0,	/5						C ū	
			First	Prev	vious F	Page 1	of 1	N	ext	Last	(	10 🔺	3 in total	

2) Fill in VLAN info and bind to corresponding interface.

×

Add/Edit	×
1、Fill Base Information	
VLAN ID : • Range(1-4094)	
VLAN Name :	
IP :	
Netmask :	
>>> Advanced Settings	
2. Select Port	
Available 🔄 Unartailable 🚍 Selected 17 AG Port 17 Trunk Port	
1 3 5 7 <sup>4</sup> 3 11 13 15 17 19 21 23 	
2     4     6     8     10     12     14     16     18     20     22     24     25     26     27     28	
Note:Click and hold the left button as you drag the pointer across the section to select multiple ports. All Invert Deselect	
	OK Cancel

# 4.2.3. Advanced Setting

The advanced setting for switch includes system log, SNMP, NTP, DNS, NFPP and IGMP snooping.

**Configuration Steps** 

Device Details ( 2910 )		×
Active 🗌 Inactive 💼 Disable		T Trunk Port Copper SFP
1 3 5 7 9 11 13 15 2 4 6 8 10 12 14 16	17     19     21     23     25     2       10     10     10     10     10       18     20     22     24     26     2	27
Overview General Advanced		
SYSTEM		~
SYSLOG Setting :		
Logging Level:	Informational(6) 🔻	]
Server IP:		•
	Save	
SNMP Setting		
SNMP Version:	✓ V2 ○V3	
Device Location:		
SNMP Password:		•
Trap Password:		* The Trap password is same with the SNMP password.

You can configure up to 9 Trap recipients. Please use ',' or press the

\*Enter key to separate addresses.

### 4.3 Gateway Device

Trap Recipient Address:

Save

# 4.3.1 Gateway List

Ga	teway List									Ð	<b>2</b>	- 23
Ad	Add Gateway eWeb More + 0 Selected											Q
	Status	⊿ SN	Alias	MGMT IP	MAC	Public IP	Group	Firmware Version	Offline Time	Model	Description	Action
	🕗 Online	H1LR11F000	47C Empty	172.17.185.178	5869.6cb9.0467	111.204.215.183	aaaa	EG_RGOS 11.9(1)B12	2018-10-29 15:08:00	EG2000CE	Empty	Ū.
	🛛 🥥 Online	H1L70BT000	D3A Empty	172.17.207.8	0074.9c11.0e82	111.204.215.185	JAY	EG_RGOS 11.1(6)B19	-	EG3000UE	Empty	Ū.
	First Previous Page 1 of 1 Next Last											

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

The **Search** function supports fuzzy queries based on SN, alias and description, and also supports queries based on status.

Above the list are the Add Gateway, eWeb, Move to, Restart, Diagnosis Tool and Tunnel Config

functions.

# 4.3.2 Add Gateway

Gateway Lis	t	
Add Gateway	eWeb	More - 0 Selected
	Status	SN Alias

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

Add Gateway		×
Enter an SN :	Enter an Alias :	
Tip: Please enter the password of admir device. You can skip this step now, and y Gateway.	n account of the eWeb system to authorize Ruijie Cloud to manage this verify the password and check the results in MONITORING > Device >	
Web Password :		
	ОК СК	se

### 4.3.2 Unauthorized Gateway List

Jnauthorized Gateway List					0 M
					SN, Alias Q
SN	Alias	Status	Group	Added at	Action
H1LR11F00047C		Waiting for device to go online	TestGroup01	2018-11-14 16:54:01	Re-authorize Delete
		First Previous Page 1	of 1 Next Li	ast	5 🔺 1 in total

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



# 5. Maintenance & Upgrade

# 5.1. Ruijie Cloud Account Management

Ruijie Cloud provides 3 different roles for sub-account for admin user to manage system easily.

- Admin: Own the permissions to create sub-account, edit, read.
- **Employee**: Own the permissions to edit, read.
- Guest: Own the permissions to read.

## **Configuration Steps**

1) Login Ruijie Cloud and click Account on top right corner

	0 🕲
	Account
Time Zone: (GMT+10:3)	Tenant
	Sub Account
Ū	Logout

2) Add a sub-account and associate to designated group.

		MAINTENANCE COMPONENTS-	, I	el de la companya de
📏 Ruijie_demo 🛩 📿	Group :	Ruijie_demo	^ _	Time Zone: (GMT+8:00
int List	Username :			0
name,Full Name,Mobile,Err	Security Code :	Get Security Co	de *	
Username Role	Language :	English	• Ie	Email A
	Description :			10 -
	Expired : Mobile :	2999-01-01		
	Role :	Admin	• 0	
		Save	Cancel	ac are

3) Login to Ruijie Cloud using this newly created account.

# 5.2. Firmware Upgrade

Ruijie Cloud support devices firmware online upgrade, and it allows network administrator to utilize the latest features and security enhancements for their Ruijie devices. Online upgrade feature allows admin to easily schedule firmware upgrade on their networks, view firmware releases.

## **Configuration Steps**

- 1) Login Ruijie Cloud and register your devices on cloud.
- Navigate to MAINTENANCE and it will show the latest firmware which are suitable for your devices.



3) Click the upgrade prompt and it will redirect to firmware management page.

	LOGS	$ALL \sim$	Q		_		Time Zone: (GMT+8:00)Asia/Shanghai						
	Operation Log Config Log	Top 5	Top 5 Versions						Firmware Version List			sion Q	
	Upgrade Log									Firmware Version		Device	
	Client Log		S29_RGOS 11.4(1)				S29_RGOS 11.4(1)B12P8			1			
	Connection Log								AP_RGOS 11.1(5)B40, Release(	04193011)		1	
•	UPGRADE			S 2					Press	inus Page 1 of 1 N	av?		
	Upgrade			<u> </u>									
	Firmware												
		L Davia	o List	-						and the second sec	Contraction of the second	4	
		Devic	eList								<b>ି</b> । ମି	≇ + 20	
		Upgra	.de Upgra	ade All 0 Selected						SN, Device Remarks, All	Advanced S	earch 🗸	
			Status	SN	Group	Alias Name	Model	Hardware Version	Current Version	Recommend Version	Device Remarks	Action	
			Online	G1L07BE018855	CloudDemo	Office-01	AP720-L	1.10	AP_RGOS 11.1(5)B40, Release(04193011)	AP_RGOS 11.1(5)B40P2, Release(05170716)			
		- U	- Crimic									Upgrade	
			© Online	G1LQCKN057097	CloudDemo	S2928Ev3-2	S2928G-E V3	1.30	S29_RGOS 11.4(1)B12P8	S29_RGOS 11.4(1)B12P11		Upgrade Upgrade	

- 4) Select the devices or networks to be upgraded by clicking the checkboxes beside the device status. Admin can specify upgrades on a per-network or per-device type by choosing network group or using advanced search to filter the device model needed to be upgraded.
- 5) Click upgrade button to perform firmware upgrade. Select either Perform the upgrade now or Schedule the upgrade for, specifying a specific date and time for the upgrade.

evice Type: S2928G-E V3 Hardware Version: 1.30 Current Version: S29_RGOS 11.4(1)B12P8	>
pgrade Version: S29_RGOS 11.4(1)B12P11 Version Detail ~ Ipgrade Device: 1	Reselect Version
evice Type: AP720-L Hardware Version: 1.10 Current Version: AP_RGOS 11.1(5)B40, Release(04193011)	>
pgrade Version: AP_RGOS 11.1(5)B40P2, Release(05170716) Version Detail V Ipgrade Device: 1	Reselect Version
nable Scheduled Upgrade	

# 5.3. Monitoring

# 5.3.1. AP Status

Click Access Point serial number to monitor AP running status, including AP info, CPU & Memory usage, connectivity record, traffic, RF setting and interference.

	MONITORING CONFIGURA	TION MAINTENANCE	uring the update, the Ruijie Cloud service will I	be stopped. 💕 🛱 🚱 🕒
DASHBOARD	ALL∨ 〉demo_1∨ Q			Time Zone: (GMT+8:00)PRC
! ALARM	AP List	1		0 #∗ %
LL ANALYSIS	Add AP More - 1 Selected			SN, Device Allas, Description Q
Quality	Status SN Cont	fig Status MAC Device Alias	MGMT IP Public IP Clients Group	Firmware Version C
Traffic	Online G1KD9HH02861B S	ynced 58:69:6C:99:08:F5 <u>Ruijie</u>	172.17.185.122 111.204.215.182 - QA_Jat	AP_RGOS 11.1(5)B01 2018-
Access Point	G1KQC2D010806 S	ynced 58:69:6C:BE:AB:10 740	172.17.207.82 111.204.215.184 - demo_	1 AP_RGOS 11.1(5)B9P5, Release(04180410) 2018-
Switch Client		First Previous Page 1	of 1 Next Last	10 🔺 2 in total
DEVICE	and the second s		and the second	
Access Point		and the second second		ar
Switch				

Device Details
----------------

AP Info						
SN : G1KD9HH Model : AP5200 Hardware Version Software Version Alias Name : F Description : ssid : hotels	02861B (W2) n: 1.00 n: AP_RGOS 11.1( Ruijie 🖍 Ssid coffeebarssi	MAC : 5 Config S 5)B01 d surveyssid tila	869.6c99.08f5 tatus : Synced to the late test roctestiner	MGMT	IP: 172.17.185.122	
Status						
<ul><li>Online</li><li>Online Clients:</li><li>Clients with W</li></ul>	: 0 /eak Signal : 0	Memory Usage	CPU Usage	10.0%	Alarms : 0	
Connectivity					Last 24 F	Hours Last 7 Days
14:00	18:00	22:00	2:00	6:00	10:00	
Traffic Summa	ary 🕜		-O- Uplink -O- Dov	vnlink		Last 24 Hours Last
	-γ 17:00:00 19:00:0	∽ 00 21:00:00 23:00:0	ý 10 01:00:00 03:00:00	05:00:00 07:00:00	09:00:00 11:00:00	0 13:00:00
Radio List						Q
RF Type	Channel	Power	Bandwidth	(MHz)	Chan	nel Usage(%)
2.4G	1	20%	20			59%
5G	149	20%	40			19%
Client List						Ð
IP MAC	SSID RS	SI Band	Traffic (MB)	05	Manufacturer	Up Dow

No matching records found

First

×

#### Adjacent RF Signal

Device Log

Triggered: 2016-11-21 16:00 Ended: 2016-11-21 16:11 Status: Complete

BSSID	Radio	Adjacent SSID	Adjacent Channel	RSSI	Adjacent SN	Adjacent MAC	Uploaded			
0669.6c5b.5034	Radio2(5G)	zxkart	149	81	G1KD14G002056	5869.6c5b.5031	2016-11-21 16:11			
0669.6c54.8d17	Radio1(2.4G)	Eweb_8D151	1	76	G1JDB1P031399	5869.6c54.8d15	2016-11-21 16:11			
0669.6c5b.4fd7	Radio1(2.4G)	Ruijie_FREE.WiFi-Leon	1	75	G1KD14G001828	5869.6c5b.4fd5	2016-11-21 16:11			
0a69.6c5b.4fd7	Radio1(2.4G)	Staff	1	75	G1KD14G001828	5869.6c5b.4fd5	2016-11-21 16:11			
0669.6c7a.5dd2	Radio1(2.4G)	Eweb_5DD01	1	73	G1KD84Y017646	5869.6c7a.5dd0	2016-11-21 16:11			
0669.6c99.2b67	Radio1(2.4G)	New-1	1	71	G1KD9HH050650	5869.6c99.2b65	2016-11-21 16:11			
1669.6c99.2b67	Radio1(2.4G)	test-5	1	71	G1KD9HH050650	5869.6c99.2b65	2016-11-21 16:11			
0669.6c85.82d5	Radio1(2.4G)	SanTest1	6	69	G1KD54Z00410B	5869.6c85.82d2	2016-11-21 16:11			
0669.6c7a.5dd3	Radio2(5G)	Eweb_5DD01	149	68	G1KD84Y017646	5869.6c7a.5dd0	2016-11-21 16:11			
0669.6c5b.4fd8	Radio2(5G)	Ruijie_FREE.WiFi-Leon	149	66	G1KD14G001828	5869.6c5b.4fd5	2016-11-21 16:11			
	First   Previous   Page   1   of 8   Next   Last   10 • 77 in total									

Scan Adjacent RF

#### ·⊖ ∎ •

All Days 🔻	Q Search		
Туре	4	Updated On	Content
Online/Offline		2018-02-07 10:13:00	Device online
Online/Offline		2018-02-07 10:04:00	Device offline
Online/Offline		2018-02-07 10:02:23	Device online
Online/Offline		2018-02-07 09:53:00	Device offline

# 5.3.2. Switch Status

Click Switch serial number on switch list to monitor AP running status, including switch info, port status, CPU & Memory usage, connectivity record, traffic, device log.

	ALARM	Switch List O # - 33	1
<u>kili</u>	ANALYSIS	Add Switch 0 Selected SM. Device Alias, Descrip Q	
	Quality	Status St MAC Device Alias MGMT IP Public IP Down Group Model Firmware Version Description Action	
	Traffic	Online     G11,900/0001321     00/74.9C.7E.C2.02     2210     192.168.125     218.106.154.158     levy     52910-24GT4XS-UP-44     529,RG05.11.4(1)(012P11	
	Access Point		
		PILL PTROOMS Fight 1 (11) Heat Last	
	Client		
	DEVICE		
	Access Point		
L	Switch		
23			

#### Q . .

#### Ruijie Cloud Cookbook V1.3

Device Details ( 2910 )		×
Active 🗋 Inactive 💼 Disable	1 23 25 27	T Trunk Port Copper SFP
	2 24 26 28	
Overview General Advanced		
Alias Name : 2910 💉	SN: G1L90NN001321	MAC: 0074.9c7e.c202
MGMT IP : 192.168.1.25	Model: S2910-24GT4XS-L	P-H Hardware Version : 3.00
Software Version : S29_RGOS 11.4(	1)B12P11	
Current State		~
Online	Memory Usage	CPU Usage
Temperature : 38 °C Flash Usage : 0 98%	47.6%	6.5%
POE: Used 0.0W / Total 370.0W		Ŭ
Connectivity		~
		Last 1 Day Last 7 Days
10:00 14:00	18:00 22:00	2:00 6:00
Device Log		$\checkmark$

# 5.3.3. STA Status

Click client mac address to view client details, including client info, traffic, delay, RSSI and connect record.

		CONFIGURATION MAIN	ITENANCE	-					6	000
DASHBOARD	ALL ~							Time Zone: (GMT+8	:00)Asia/Shanghai demo_1	x *
. ALARM	Client List								0	<b>n</b> - 8
									Online Clients   Advan	ed Search 🗸
Quality	IP	MAC	SSID	RSSI	Band	Traffic(MB)	OS	Manufacturer	Up	Down
Traffic	10.233.22.2	EC 51 BC 38:40 C1	testing_inner_portal	-42	2.4G	1.140	Others	орро	2018-02-07 13 38 09	
Access Point Switch		1	First Previous	Page 1	of 1	Next			100 -	1 in total
Client	and the second date	- Canada and				Contraction of the local division of the loc		-		
E DEVICE			then a	-		-		- 10		
Access Point	-				-			Tar	and any	
							-	_		
					-		-	No. of Concession, name		



## 5.4. Alarm Setting

Ruijie Cloud supports AP exception alarm function, when AP offline, working on high channel utilization, AP state unstable, it will trigger the mail alarm function on Ruijie Cloud.

### **Configuration Steps**

1) Enable the alarm function and turn on the mailing function on Alarm Setting.

Beijing_Ruijie $\vee$			Beiji	ng_Ruijie	× •
		and the second	- Andrewski - Carrowski -		
Alarm Settings				0	55
Туре	Status	Alarm Threshold	Send Alarm Over Email	Updated	
Device goes offline					
Device goes online and offline continually		> 20 % 🕑	•		
STUN change continully		> 3 times/h ⊙			
Channel utilization	· · · · · · · · · · · · · · · · · · ·				

2) Create contacts and group for those who receiving mail alarm on **Contact** Page

Name         Mode         Description         License           Ruijecverses         12345678         service.rj@ruijenetworks.com         Ruije         Personalize           First         Prevous         Page         0/1         Nest         Last         Contact         nt           Group         Contacts         Secription         Action		11.57	5	Basselation	oyatem betting
Rujijeversea     12345678     service.rjijtrujientiverkis.com     Rujie     Personalize       First     Previous     Page 1 of 1     Next     Last     Contact on 1       Group     Oroup     Description     Action       Rujie Staff     For Rujie internel     C ii	Name	Mobile	Email	Description	License
First     Previous     Page 1     of 1     Next     Last       Notification About	Ruijieoversea	12345678	service_rj@ruijienetworks.com	Ruijie	Personalize
Group Contacts Group Contacts First Previous Page 1 of 1 Next Last Notification Line			First Previous Page 1 of 1 Next Last		Contact n te
About       Group Contacts       Group Contacts       Ruje Staff     Por Ruje internel       First     Previous     Page 1 of 1       Number 1     Last     10 - 1 in th					Notification
Group Contacts  Group Group For Rugie Internel  For Rugie Internel  For Rugie Internel  For Rugie Internel  To _ lin t					About
Group Contacts       Group     Description     Action       Ruije Staff     For Ruije internel     C =       First     Previous     Page 1 of 1     Next     Last	Course Course of the				
Group         Description         Action           Ruije Staff         For Ruije internel         C II           First         Previous         Plage 1 of 1         Next         Last         10 - 1 in to	Group Contacts				
Bujie Staff         For Ruije internel         Image: Comparison of the staff         Image: Comparison of the staff	Group		Description		Action
First Previous Page 1 of 1 Next Last 101int	Ruijie Staff		For Ruijie internel		
			First Previous Page 1 of 1 Next Last		10 . 1 in t

~

3) Edit the **Group Contacts** and Add the contacts into this group.

					î
Name : Description :	Ruijie Staff				
Group Contacts		<< Add to Group Delete from Group >>	All Contacts Ruijieoversea		_
				Save	el

# 4) Binding the Contact Group to this organization on alarm settings and save the setting.

larm Settings					Ð
Туре		Status	Alarm Threshold	Send Alarm Over Email	Updated
evice goes offline					
evice goes online and offline continually			> 20 % @		
TUN change continully			> 3 times/h ④		
hannel utilization					
ontact Group List					0
Group			Description		Action
uijie Staff	For Ruijie interne	4			Û
<u>\</u>	First Previous	Page 1 of 1	Next		10 . 1 in tot

# 5.5. Log

# 5.5.1. Operation Log

Operation Log records all operation info.

	تے ۳۵۹۲		MONITORING	CC	NFIGURATI	ON MAINTENANCE CC-BASE	<b>1 2</b>	2	•	e
		-	Operation Lag		قىمى يە					
Ø	LOGS	Ľ	Operation Log				Ð	<b>.</b>	. 2	8
	Operation Log		Started	110	Ended	⊞o Q Search				
	Config Log		Time	User	Туре	Description	Result	Re	sult	De
	Upgrade Log		2018-02-07 14:07:55	admin	Login	Log in successfully	Success	\$		01
	Client Log		2018-02-07 10:48:54	admin	Login	Log in successfully	Success	3		01
	Connection Log		2018-02-06 18:47:45	admin	Load Balance	Load balance is enabled for group 【RuijieDemo】.	Success	\$		01
		Add device 【G1LQ68P003245, G1LQ7BF018855】 to load balance group 【RuijieDemo】.	Success	3		01				
	UFGRADE		2018-02-06 18:44:04	admin	Load Balance	Add load balance group [RuijieDemo] : max clients associated with an AP is [null] ; min AP coverage power is [null] dbm.	Success	\$		01
	Upgrade		2018-02-06 18:38:33	admin	Load Balance	Delete load balance group 【12】.	Success	3		01
	Firmware		2018-02-06 18:38:18	admin	Load Balance	Add load balance group [12]: max clients associated with an AP is [null]; min AP coverage power is [null] dbm.	Success	\$		01
ø	SYSTEM		2018-02-06 18:37:45	admin	Load Balance	Delete load balance group 【Group_B_LB】.	Success	3		01
	Disk Cleanup		2018-02-06 18:37:33	admin	Load Balance	Delete load balance group 【Group_A_LB】.	Success	3		01
	Database Backup		2018-02-06 18:32:49	admin	Load Balance	Delete load balance group 【qwe】.	Success	3		01
					(	First Previous Page 1 of 15 Next Last 10	14	5 in	tota	I

# 5.5.2. Config Log

Config Log lists down the status of device configuration. If the device stucks on not sync state, user can check the configuration delivery status by clicking the detail button.

	ے ۲ ععم	MO	NITORING	CONFIGURATIO	ON MAINTE	NANCE	4ACC-BASE		🕑 🖬 📔
2	LOGS	Co	onfig Log						
	Operation Log Config Log			[110	-				
	Upgrade Log		Action View	Device	View				
	Connection Log	Ac	tion View			and the second s		-	0 <b>•</b> ×
1	UPGRADE				a se	arch			0° •+ * 6
	Upgrade	2	Operation Type	Started	Ended	Status	Devices	Result	Description
	Firmware	+	Change Group	2018-02-06 17:47:34	*	Incomplete	Total/Offline/Not Online Yet: 1/1/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Device: G1LQ7BF018855.
	SYSTEM Disk Cleanup	+	Change Group	2018-02-06 17:47:09		Incomplete	Total/Offline/Not Online Yet: 1/1/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Device: G1LQ68P003245.
	Database Backup	+	Change Group	2018-02-06 17:47:09	2018-02-06 17:47:34	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/1	Device: G1LQ7BF018855.
		+	Edit Config	2018-02-06 09:59:11	2018-02-06 09:59:11	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: Beijing_Ruijie_Aut
		+	Edit Config	2018-02-06 09:59:11	2018-02-06 09:59:11	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: Beijing_Ruijie_Aut
		+	Edit Config	2018-02-06 09:59:11	2018-02-06 09:59:11	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: Beijing_Ruijie_Auto
		+	Edit Config	2018-02-06 09:59:10	2018-02-06 09:59:11	Complete	Total/Offline/Not Online Yet: 0/0/0	Success/Failure: 0/0 In progress/Scheduled/Complete: 0/0/0	Config: Beijing_Ruijie_Aut
		+	Device First Online	2018-01-24 02:29:24	2018-01-24 02:30:10	Complete	Total/Offline/Not Online Yet: 1/0/0	Success/Failure: 1/0 In progress/Scheduled/Complete: 0/0/0	Device: G1LQ7BF018855;
								Outpate (Failure 1/0	

# 5.5.3. Upgrade Log

Devices firmware upgrade history will be listed on this page.

	ے ۲۵۵۲ کے ۳۵	MONITORING CONFIGURA	TION MAINTENANCE	Hi, this is MACC-B	ASE		8 🥹 🛱 😫
	LOGS Operation Log	Upgrade Log Select upgrade mode V Star	ted III Ended	Q Search			0 <b>H</b> - X
	Config Log	Operator Description	Target Version	Process	Time	Result (Success/Failure/Aborted)	Action
ſ	Upgrade Log	admin Upgrade selected1 device(s)	AP_RGOS 11.1(5)B9P2, Release(04170312)	B 1/1	2017-08-01 20:14:03	1/0/0	000
	Client Log	admin Upgrade selected1 device(s)	AP_RGOS 11.1(5)B9P2, Release(04170312)	G 1/ 1	2017-08-01 20:12:52	1/0/0	000
100	Connection Log		First Previous Page	1 of 1 Next	Last		10 🔺 2 in total
	UPGRADE	and the second se			- K		
	Upgrade	State of the state					
	Firmware	-	and the second second			-	
ø	SYSTEM	The Part of the second	a manufacture and				
	Disk Cleanup				-	The Art with	and with
	Database Backup						

# 5.5.4. Client Log

Client History logs in client log page, and user can export client info base on days, traffic, hours.

			AITTENANCE .	I, UIS IS MACC-DASE		<b>6</b> 0 0
LOGS Operation Log	Filter Criteria		(1)			
Config Log Upgrade Log Client Log	7 Daily Clients	Daily Traffic	Hourty Clie	nts		
Connection Log UPGRADE	Daily Clients		Q Search			₫ #• 8
Upgrade	Total Clients	Date	Active Clients	Total Traffic(MB)	Traffic of Active Clients(MB)	Group
Firmware	2	2018-01-06	1	5.00	5.00	LAB
SYSTEM	3	2018-01-08	1	3.00	3.00	LAB
Disk Cleanun	4	2018-01-09	1	4.00	4.00	LAB
Database Backup	6	2018-01-10	3	10.00	10.00	LAB
Database backup	2	2018-01-11	2	13.00	13.00	LAB
	6	2018-01-12	1	12.00	12.00	LAB
	1	2018-01-13	-			LAB
	2	2018-01-14		0.00	12	LAB
	2	2018-01-15	1	2.00	2.00	LAB
	5	2018-01-16	3	435.00	435.00	LAB
						10 . 19 in total
		Fi	rst Previous Page	I OLZ Next Last		102 10 11 10 11

# 5.5.5. Connection Log

Connection Log is the connection record between Ruijie Cloud and managed devices. If the device is abnormal, it's recommended to check connection history on this page.

2		MONITORING	CONFIGURATION	MAINTENANCE	-				9 @ Q 🔒
	LOGS Operation Log	Connection Log	Q Search						⊕ ≝ # • %
	Config Log	SN	RPC Type	Operation Type	Status	Content	Failure Cause	Started	Ended
	Upgrade Log	G1LW910000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device.X_WWW-RUIJIE-COM-CN		2018-02-07 16:23:59	2018-02-07 16:23:59
	Client Log	G1LW910000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device.X_WWW-RUIJIE-COM-CN		2018-02-07 16:02:57	2018-02-07 16:02:57
	Connection Log	G1LW910000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device X_WWW-RUIJIE-COM-CN		2018-02-07 15:42:55	2018-02-07 15:42:55
	Handred Handle	G1LW910000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device,X_WWW-RUIJIE-COM-CN		2018-02-07 15:21:53	2018-02-07 15 21:53
	UPGRADE	G1LW91000086	GET_PARAMETER_VALUES	get radio values	FINISH	{Device WiFi Radio 2 X_WWW-RUIJI_		2018-02-07 15:15:13	2018-02-07 15:15:14
	Upgrade	G1LW91000086	EXECUTE_CLI_COMMAND	TIMEZONE-UPD	FINISH	mode:CONFIG command [clock tim_		2018-02-07 15:15:13	2018-02-07 15:15:14
	Firmware	G1LW910000086	SET_PARAMETER_VALUES	roam-config	FINISH	[Device X_WWW-RUIJIE-COM-CN		2018-02-07 15:15:13	2018-02-07 15:15:15
		G1LW91000086	GET_PARAMETER_VALUES	get bssid values	FINISH	(Device WiFi SSID 2 MACAddress=0		2018-02-07 15:15:13	2018-02-07 15:15:13
		G1LW91000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device X_WWW-RUIJIE-COM-CN		2018-02-06 19:07:26	2018-02-06 19:07:26
		G1LW910000086	SET_PARAMETER_VALUES	roam-sync	FINISH	[Device.X_WWW-RUIJIE-COM-CN		2018-02-06 18:46:11	2018-02-06 18:46:11
				First Previous	Page	1 of 55 Next Last			10 * 550 in total

# 5.6. Diagnosis Tool

Ruijie Cloud supports Advanced troubleshooting, CLI access to devices to perform advanced debugging.

1) Go to **Monitoring Page** > Access Point /Switch. Click **More** and select **Diagnosis Tool**.

ے ۲۵۵۳	MONITORING	CONFIGURATION	MAINTENANCE			e 🕑 🗙 🔒
OVERVIEW Global	wahana 🗸	_			wahar	a x v
Quality Alarm	AP List	Q Search				⊙ #• X
DEVICES     Access Point     Switch	Status Online G11	SN Config Status CDCGE004678 Not Synced	MAC Device Alias 5869.6cbd.66a5 <u>520i(marketing)</u>	MGMT IP Public IP 192.168.7.201 110.136.14.24	Clients Group 8 - WahanaBuilding	Move To Delete Restart
CLIENTS Client List Experience		First Pr	revious Page 1 of 1	Next Last	1 Selected	Diagnosis Tool

2) Use "General->Running Config" to verify the AP setting.

1	Web Cli				×
	SN:G1LW30	T000	0769	Background color : 🗾 🔳 🗌	Clear
	General	>	Version	web-auth portal wifidog_4 webauth	
	Connecti	>	Running Config	! wlansec 5	
	Running	>	Startup Config	web-auth portal wifidog_5 webauth	
	User	>	Log	! ntp server cn.pool.ntp.org	
	WLAN	>	Current Mode	ntp server 0.cn.pool.ntp.org ntp server asia.pool.ntp.org	
	Wireless	>	Current Time	! ip nat inside source list 2 interface BVI 1	
	Web Cli	>		! no offline-detect	
				! line console ()	
				login	
				password admin	
				line vty 0 4	
				privilege level 15	
				login	
				password admin	
				end	

3) Use "Connection->Ping tool" to check the Internet connectivity.

SN:G1LW30T000769	Background color:
General > Interface IP	
Connecti > Interface Status	Please wait
Running > ARP	
User > MAC	Ping Tool: Sending 5, 100-byte ICMP Echoes to 8.8.8.8, timeout is 2 seconds:
WLAN > DNS	< press Ctrl+C to break >
Wireless > Route	Success rate is 0 percent (0/5).
Web Cli > ruijienetworks.com Send	
	Please wait
	Ping Tool: Translating "ruijienetworks.com"[OK]
	Sending 5, 100-byte ICMP Echoes to 139.198.10.166, timeout is 2 seconds:
	<pre>c press cut+c to break &gt; iiiii iiiii </pre>
	Success rate is 100 percent (5/5), round-trip min/avg/max = 60/60/60 ms.

# 4) Use "WLAN->MBSSID" to verify the broadcast SSID

Web Cli	×
SN:G1LW30T000769	Background color:
General > MBSSID	name: Dot11radio 2/0.1 wlan id: 1
Connecti > WLAN Details	ssid: Social_Login bssid: 0669.6c88.695b
Running > Roaming Group Neighbor	name: Dot11radio 2/0.2
User >	wlan id: 2 ssid: RuijieOversea
WLAN >	DSSIG: 0869.6C88.695D
Wireless >	name: Dot11radio 2/0.3 wlan id: 3
Web Cli >	ssid: Free Wifi Hotel-Guest bssid: 0e69.6c88.695b
	name: Dot11radio 2/0.4
	ssid: Free Wifi Hotel-VIP
	bssid: 1269.6c88.695b
	name: Dot11radio 2/0.5 w/an.id: 5
	ssid: Survey
	bssid: 1669.6c88.695b

5) Use "User->Associated Client" to check the online user.

THES ON						
SN:G1LW30T00	00769			Background	l color : 🗾 🔳 🔲	Clear
General >	Associated Client	0669.6088.6950 5869.6088.6957 0 1269.6088.695a 5869.6088.6957 0	NAT	10.10.10.109 10.10.10.109	Free Wifi Hotel-Gues	il.
Connecti >	User IP(DHCP Server)	1669.6c88.695a 5869.6c88.6957 0	NAT	10.10.10.109	Survey	
Running >	User IP(DHCP Snooping)	1669.6c88.695b 5869.6c88.6957 0	NAT	10.10.10.109	Survey	
User >	Traffic Usage					
WLAN >		Please wait				
Wireless >		Associated Client:				
Web Cli >		None				
		Please wait				
		Associated Client: RADIO-ID WLAN-ID ADDR ASSOC_TIME IDLE TXSEQ RXSEQ 2 3 cc:08:8d:e8:31:52 1 5 0x3 E WS SU	AID CH ERP ST/ 2 87.0	HAN RATE_DOWI ATE CAPS HTCAI M 6.0M 14	N RATE_UP RSSI PS VHT_MU_CAP 0:00:03 0 27 256	0x0

### 5.7. Remote Assistance Tool

Remote Assistance Tool aims to provide a quick access for Ruijie Support to login your Ruijie Cloud for configuration and troubleshooting. Ruijie will not change your setting without your permission.

### **Configuration Steps**

1) Click **Remote Assistance** on top right navigation bar.



2) 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.

#### Web Cli

#### Remote Assistance

We will use this link to log in to Ruijie Cloud to solve your problem (We will not change your configuration without your permission). Ruijie will not take any responsibility if remote assistance session is shared to non-Ruijie staff and services are interrupted.

Permissions: Link:	Read-only $\bigcirc$ Read and Write
https://cloud-a	s.ruijienetworks.com:443/admin3/remoteVerCode?ratiuncula=458
Security Code:	8u2437
Copy link	Cancel

# 6. FAQ-Frequency Asked Questions

# 6.1 Quick Start

## 6.1.1 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:
  - <u>Network Connectivity</u>
  - 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: <u>https://www.ruijienetworks.com/support/documents/slide 73922</u>

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: <a href="https://www.ruijienetworks.com/support/documents/slide\_73922">https://www.ruijienetworks.com/support/documents/slide\_73922</a>.

# 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)

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

# **Europe Cloud**



- number you input on and the device DNS show online. First, verify which hosting you
- 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: <u>https://www.ruijienetworks.com/support/documents/slide\_73633</u>

### 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.

6.1.2 What can I do if Ruijie Cloud shows "AP was bound by other account" while adding new AP.

Message	×
The device is bound with	
accoun	

### Solution:

If you are facing devices bound /used by others account issue. Please Ruijie Online technical support at Skype: <u>service rj@ruijienetworks.com</u> 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.

6.1.3 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.

Ruíjie	MONITORING CONFIGURATION M	AINTENANCE	🖌 🖌	1 2 3 4
	ALL ∽ Q	1	Time Zone: (GMT+8:00)	Asia/Shanghai
🗷 LOGS			AP_RGOS 11.1(5)B9P11, Release(05151211)	3
Operation Log			EG_RGOS 11.1(6)B19	3
Config Log				
Upgrade Log			Previous Page 1 016 Next	
Client Log		All		
Connection Log	Device List		•	11 × 25
UPGRADE	Upgrade Upgrade All 1 Selected		SN, Alias, Description Q Advance	ed Search $\vee$
Upgrade	Status SN Group	Allas Model Hardware	e Version Current Version Recommended Version	Descrip
Firmware	😰 💿 Online Grand Grand	AP740-I AP740-I 1.	00 AP_RGOS 11.1(5)B40P2, Release(05161917) AP_RGOS 11.1(5)B40P9, Release(052	230211)
	Online Option	520w2 AP520(W2) 1.	00 AP_RGOS 11.1(5)B40P2, Release(05171110) AP_RGOS 11.1(5)B40P9, Release(052	230211)

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.

Ruijie	MON	ITORING	CONFIGURATION	MAINTENANCE •	
	ALL	Web Cli		e Zone: (GMT+8:00)	Asia/Shangha
		SN:G1KD9HH02	861B	Background color: Clear	
ALARM	1 AP L	General >	Web Cli	Please select the target operation on the left	
	1 200	Connecti >		show cwmp configuration	2° 8+ * 1
	Acta			CWMP status : enable SN. Alias, Descri	
		Running >		ACS URL : http://cloud-as.ruijienetworks.com/service/tr069servlet	
		llear		ACS usemane : Version	Offline Tin
		USEI >		CPE URI : http://192.168.137.199-7547/ (DYNAMIC) 2. Release(05171110)	2018-11-14 18
		WLAN >		CPE username : 2. Release(05161917)	2018-11-21 1
				CPE password :	2010 12 20 1
		Wireless >		CPE inform status : enable 2. Neteose(04161917)	2018-11-20.14
		Web Cli >		CPE inform start time = :0:0:0.0.0	2018-11-20 14
				CPE wait timeout : 90s 2. Release(05171110)	2018-11-2014
	100			CPE download status : enable 9. Release(05230211)	2018-11-15 1
	100			CPE upload status : enable	
				CPE back up status : disable	2018-11-141
				CPE back up delay lime : 605 1, Release(05151211)	2018-11-14 1
				CPE STUN port : 3478 Release(04211106)	2018-06-25 1
	100			CPE STUN max-period : 60s 2. Belease(05161916)	2018-09-18 17
				CPE STUN min-period : 20s	
				520w2#	20 in tat
				10.	32 11 101
				Command: Send	

# **Config Status**

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

AP L	ist New firm	nware available	for 3 devices							Ð	8 <b>1</b> -	20
Add	AP More	<ul> <li>1 Selected</li> </ul>								SN, Alias, Description	1	Q
	Status	SN	Config Status	MAC	Alias	MGMT IP	Public IP	Clients	Group	Firmware Version	0	)ffline
	🔵 Online	G1LQ7JR480762	Sync Failed	0074.9c2f.e29c	520W2	10.0.1.37	58.152.136.143	•	default	AP_RGOS 11.1(5)B40P2, Release(05171110)	2018-	11-10

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.

o synch olumn t	ronize all configurations to the AP, ple o deliver it again.	ease click Manually De	liver. If a configuration	on fails to be synchron	ized, please click $\mathbb{F}_{0}$ in the Action
Manual	ly Deliver ORefresh				
	Config		Status		Action
F .	CWMP Interval Settings		Synced		Ŀ.
F .	NAT Address Pool Settings		Synced		Ŀ₀.
-	SSID Settings		Synced		P.
	Config	Description	Status	Remarks	Updated at
WLAN I	0[1],name[CCC_JebelAli_Camp],radio[1,	Batch Deliver	Success	Success	2018-09-12 00:07:29
WLAN I	0[2] name[CCC_new] radio[1_2] encrypti	Update	Success	Success	2018-11-08 17:04:10

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

#### Command:

AP(config)#apm factory-reset

6.1.4 What can I do if Gateway always in unauthorized list

- Ensure user input WEB and Gateway access and ), until Gateway Cloud will check SN and password cloud successfully (CWMP ConfigStatus OKonline thenRuijiePassword whether correct. If WEB password again at un-authorized list. Try Ping and check CWMP Cloud at EG eWEBstatus as below: •
- •
- •



# 6.2 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.

# 6.2.1 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
- <u>Function Limitation</u>
- Further Troubleshooting

# **Basic Configuration**

1) Choose CONFIGURATION->PPSK.

		URATION MAINTENANCE	and the Personne		6 8 8 9
க் GROUPS	Ruijie_demo ∨ 📿			Time Zon	e: (GMT+8:00)Asia/Shanghai
WIRELESS Basic Lowert	PPSK Add Account Delete 12 Select	sted		(	•          •          •
Layout Load Balance RF Planning	Account	Client MAC	WiFi Key No matching records found	Created On	Action
Roaming BlueTooth		First Previous Page	0 e of 0 Next Last		30 × 0 in total
	-	2 Car	and the second		
PPSK		and the second	- Charles		
			-		



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

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

### Add Account



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.

		URATION MAINTENANCE	No.	<b>e</b> 0	888
க் GROUPS	Ruijie_demo ∨      Q			Time Zone: (GMT+8:00)As	sia/Shanghai
WIRELESS     Basic     Layout	Add Account Delete 12 Select	ted		😔 🖆 Account, Client M	
Load Balance	Account Account RuijieDemo	Client MAC	WiFi Key 669scyrq	Created On 2018-08-23 20:01:49	Action
Roaming BlueTeeth		First Previous Page 1 is of 1	Next	30 •	] 1 in total
	-	- Statement			-
Voucher		and the second			
		and the second second			-

Í	Ruíjie	MONITORING	CONFIGURATION	MAINTENANCE			×	<b>1</b> 0 0 0 0
<i>.</i>	GROUPS	WLAN ID	2	~	Hidden	No	~	IT+8:00)Asia/Shanghai
٩	WIRELESS	SSID	PPSK	Forw	vard Mode 🛛	NAT	~	Save More +
	Basic Layout Load Balance	Encryption Mode	PPSK	v	Radio	<ul> <li>Radio1(2.4GHz) Radio2(5GHz)</li> <li>Radio3 (2.4GHz or 5GHz)</li> </ul>		~
	RF Planning Roaming BlueTooth	Band Steering @ Rate limit per Client						Action
۲	AUTHENTICATION Voucher	Rate limit by SSID Auth	0					0 🔺 1 in total
	PPSK			OK Cancel	)		_	can O Access
		ON/OFF Max Clients	128	ON/OFF Max Clients	128	ON/OFF Max Clients	OD 128	

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;

Perf	Q			Т	ime Zone: (GMT+8:00)PRC
PDSK					<u> </u>
Add Ac	count Delete	0 Selected		Act	count, Client MAC Q
	Account	Client MAC	WiFi Key	Created at	Action
	zmn3	Format:ffff.ffff Bind	9evzaph3	2018-08-07 16:56:49	Ē
	G1	Format:ffff.ffff Bind	i5azx7yc	2018-10-12 14:30:57	ē
		First Previous Page 1 of 1	Next Last		10 a 2 in total

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

PPSK	(				⊙ ⊿ # - ⊠
Add Ad	count Delete 0 Selected			Acco	ount, Client MAC Q
	Account	Client MAC	WiFi Key	Created at	Action
	zmn3	Format:ffff.ffff Bind	9evzaph3	2018-08-07 16:56:49	Ē
	G1	Format:ffff.ffff Bind	i5azx7yc	2018-10-12 14:30:57	Ē
		First Previous Page 1 o	f1 Next Last		10 🔺 2 in total

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

### 6.2.2 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	3 •	
Bind MAC	$\bigcirc$	
Period	30 Minutes 🔹	
Data Quota	100 MB •	
Max Download Rate	Unlimited •	
Max Upload Rate	Unlimited •	
	OK Cancel	

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

Vouch	er								€ 🖄	<b>:</b>	50
Print Vot	Manage Profile	More 🕶	Total Voucher: 0	Voucher	In Use: 0 🛛 🛑 De	epleted Voucher: 0		Voucher Code, Name/Ref	Advance	d Search	$\sim$
	Voucher Code	Name/Ref	Time Period	Created At	Expired At	No. of De	vices (Current/Max)	Used Data/Data Limit (M	B)	Status	
	No matching records found										
			First	Previous	Page 0	of 0 Next	Last		10 🔺	0 in to	tal

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

கீ	GROUPS	Cloud20180712 ~ Q		Time Zone: (GMT+8:00)Asia/Hong_Kong
٩	WIRELESS Basic Layout Load Balance RF Planning Roaming BlueTooth	Voucher > Print Voucher Single Voucher Multiple Vouchers	Please enter a positive integer: 1~100       Quantity     60       Profile Name     Guest-Type1       Print Method     PRINT (A4) ONE COLUM	
0	AUTHENTICATION Voucher PPSK	Reprint Voucher		

#### 5) Click the **Print** button

6) Create an SSID with voucher inner portal on **CONFIGURATION**->**WIRELESS**->**Basic** 

SSID			×
WLAN ID	2	Hidden No	~
SSID	Voucher-Login Fo	rward Mode 🛛 🛛 NAT	~
		ΓΝΑΤ	Address Pool Configuration
Encryption Mode	OPEN Y	Radio 🛛 🔽 Rad	dio1(2.4GHz) 🔽 Radio2(5GHz)
		Ra	dio3 @ (2.4GHz or 5GHz)
Band Steering Ø			
Bate limit ner Client			
nate innit per olient			
Rate limit by SSID			
Auth			
Mode	Inner Portal ~		
Seamless Online 🛛	C Enable Day ~		
Login Options	O Social Login		
	O One-click Login 🛛		
	Voucher		
	Status Balance Page 🛛		

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

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	CONFIGURATION	MAINTENANCE		<b>1</b> 0000
ALL ~ ) Ruijie, demo ~	Add Account		×	Time Zone: (GMT+8:00)Asia/Shanghai
	Group :	Ruijie_demo	]. 1.	
Username Full Name Mobile En	Security Code :	Get Security Cod	e •	0 <b>#</b> - X
Username Role	Password :		]•	e Email Action
	Language :	English •	]	
	Expired :	2999-01-01	ן. ה	10 - 0 in total
1.001 ( Tel )	Mobile :		í,	Add
	Role :	Voucher Operator 🔹	] 0	and the second
		Save	Cancel	and the second sec

#### 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 th	e <b>Bind</b>	I MAC co	olumn	i to unb	oind MAC add	resses.							
Vol	cher												⊕ ⊉	<b>11</b> - 53
Prin	Voucher	Manage Packa	ge More 🗸	🔵 Total V	ouchers: 10	Activated Vouchers: 0	Depleted Vouchers •	:1		no	13uz5		Q Advance	ed Search $\vee$
	Voucher C	ode Name/Re	f Package Name	Price	Period	Created at	Expired at	Devices	Bind MAC	Data Usage	Max Downloa	d Rate Ma	ax Upload Rate	Status
	nd3uz8	j -	Jack01	10.00	30 Minutes	2018-11-14 10:21:27	2018-11-14 10:55:17	0/9	Yes 📋	3 MB/100 MB	Unlimite	d	Unlimited	Depleted
					First	Previous Page 1	of 1 Next	Las	t				10 🔺	1 in total
Во	und M	AC Addr	ess List											×
		I	MAC		B	ound at		Total (	Online Tim	e		Total Tra	ffic Ac	tion
		044b.	ed3d.c411		2018-11	1-14 10:25:17	ODays	Hours	8Minutes	8seconds		2M		-
				First	Previou	s Page 1	of 1 Ne	xt	Last			10 4	1 in 1	total

# 6.2.3 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

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

SSID			<b>.</b>	×
WLAN ID		Hidden	No	•
SSID		Forward Mode 🛛	NAT	▼
			NAT Address Pool Configuration	
Encryption Mode	OPEN V	Radio	✓ Radio1 ✓ Radio2 □ Radio3	
Radio 1	represent 2.4GHz			

• Radio 2 represent 5GHz

## 6.2.5 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	[] •	Hidden	No
SSID	BJ-Voucher	Forward Mode 🛛	Bridge
		VLAN ID	1
Encryption Mode	OPEN •	Radio	✓ Radio1(2.4GHz) ✓ Radio2(5GHz)
			✓ Radio3 ❷ (2.4GHz or 5GHz)
Band Steering 🛛			
Rate Limit per Client			
Rate Limit by SSID			
Auth			
Mode	Inner Portal 🔹		
Seamless Online 📀	C Enable		
Login Options	Social Login		
	One-click Login @		
	Status Balance Page @	2	

6.2.6 How to configure idle-timeout on Ruijie cloud

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

Auth	
Mode	External Portal v
Portal Server URL @	
Portal IP 🛛	
Portal Port(Optional)	
Gateway ID(Optional)	
Seamless Online	Enable(Available only when supported by Auth server)
Idle Client Timeout	Enable Advanced Settings     In (1~65535)minutes, client with traffic cost less than (0~4294967294Bytes) will     be kicked off.
	OK 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

## 6.2.7 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.



# 6.3 Maintenance

# 6.3.1 How to use WEB CLI for device on Ruijie Cloud? Choose designated device and click **More**->**Diagnosis Tool**

	DASHBOARD	ALL	~ >	demo_1 ~ Q								Time Zone: (GMT+8	:00)PRC
	ALARM		List	More - 1 Selected								SN, Device Alias, Descriț	- 33 otion Q
	Quality Traffic Access Point		Sta	Move To Delete Restart Diagnosis Tool	Config Status Synced Not Synced	MAC 58:69:6C:BE:AB:10 58:69:6C:99:08:F5	Device Alias 740 Ruijie	MGMT IP 172.17.207.82 172.17.185.122	Public IP 111.204.215.184 111.204.215.182	Clients - -	Group demo_1 QA_lab	Firmware Version AP_RGOS 11.1(5)B9P5, Release(04180410) AP_RGOS 11.1(5)B01	C 2018- 2018-
6	Switch Client DEVICE Access Point				First	Previous	Page 1	of 1	Next Las	t		10 . 21	in total
	Switch												

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

Click **CLI Command** on **CONFIGUATION**->**Basic** and add the command that needs to be configured.

ے ۳۵۵۲	MONITORING CONFIGURATION M	INTENANCE Hi, this is MACC-BASE	🔓 🗅 😵
蟲 GROUPS	Beijing,Buije - Q		Time Zone: (GMT+10:30)Australia/L
S WIRELESS	Beijing_Ruijie		Import
Layout		First Previous Page 0 of 6 Next Last	10 . D in total
Load Balance RF Planning Roaming	Radio O	Radio2	
BlueTooth	ONOFF Contents 64	ON OFF C Max Clients 64	
	Security		×
	Advanced Settings(Optional)		~
	Whitelist O Address	Description	C Fackbook
		No matching records found Prist Privitous Plage 0 of 0 Next Last	5 = 0 in total
	CLI Command  Model	Description No matching records found	Action
		Prot Previous Page 0 of Next Last	10 × 0 in total

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

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

Ruíjie 🛆	MONITORING	CONFIGURATION	MAINTENANCE •	<b>6 9 9 1</b>
DASHBOARD	Office1 Y Q			Time Zone: (GMT+8:00)Asia/Hong_Kong
ALARM		100 million - 100 million		
LL ANALYSIS			(1.1)	
Quality				· · · · · · · · · · · · · · · · · · ·
Traffic		Office1 is	a sub aroun which does not support the report analysis. Please contact the Administrator for the report data	
Access Point Switch		onice is	a sub group minor toos not support the report analysis, i reade contact the Administration for the report data.	

# 6.3.4 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.

$\leftrightarrow \rightarrow \mathbf{C}$ $\triangleq$ Secure   http	s://cloud-as.ruijienetworks.co	om/admin3/	
	MONITORING	CONFIGURATION	MAINTENAN
DASHBOARD	ALL ∨ 〉 Beijing_Lab_E ∖	r Q	
! ALARM	AP List New firmware	available for 10 devices	
LL ANALYSIS	Add AP More - 1	Selected	
Quality	Move to	nfig Status	MAC
Traffic	Delete	vnc Failed	
Access Point	Restart	Synced	500000000000000000000000000000000000000
Switch	□ <b>⊘</b> Onli	is Tool ync Failed	5

# 2.3.5 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.

1	Select Firmwa	re				×
	Cloud Firmwa	are Private Firm	vare			
	Firmware Versi	on, Release Note	Q Search			
	Fi	rmware Version	File Size (MB)	Applicable Model	Released at	Release Note
				No matching records found		
		First	Previous Page	0 of 0 Next	Last	10 🔺 0 in total
					Please select a firmware.	Finish Cancel
				_		
	Ruíjie	MONITORING CONF	IGURATION MAINTENAM	ICE		0 0 C
	LOGS	Version Details Private	Firmware			
	Operation Log	Firmware Version, Applicable	Q Search		Upload Firmware	Delete 0 Selected 😔 🚦 - 🐹
	Upgrade Log	Firmware Version	File File Size	(MB) Applicable Model	Uploaded at Released at	Description Action

Page 0

10 . 0 in total

6.4 Appendix-- Common Troubleshooting & Debugging Command

First

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

Connection Log

UPGRADE

520W2#sh wqos ( wqos fs sta cni	control 1 t: 1	Flow :	sta ipv4							
mac	up/down	last	<pre>sec<pkts,byt< pre=""></pkts,byt<></pre>	es>	last	min <pkts,by< td=""><td>tes&gt;</td><td>tota</td><td>al<pkts,bytes></pkts,bytes></td><td></td></pkts,by<>	tes>	tota	al <pkts,bytes></pkts,bytes>	
8C85.90B2.0D21	up down	< <	0, 0 0, 0	γ×	<	35, 4500 27, 9214	× ×	<	612, 72488 435, 76404	γγ

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

6.4.3 Debug WiFidog Authentication Interaction: *debug web wifidog* 

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

6.4.6 Check STA Speed Limit Status: show woos con rate-limit sta-info

520W2#show wqos con rate-limit sta-info woos rl sta cot: 1									
mac address	wlan	online	<pre>rate-limit-type</pre>	up-avg	up-burst	down-avg	down-burst		
8C85.90B2.0D21	1	1	static dynamic	0	0 640	0	0		
520W2#			dynamire	040	040	040	040		

# 6.4.7 Check Root Cause of Facebook Login fail: *debug acl efacl acl-show all*

