Ruijie RG-EG2100-P Series Gateways Quick Start Guide

1. WAN Uplink Quick Setup

1.1 Setup via EG local Web

- Modify the IP address of PC. IP address: 192.168.1.x (except 192.168.1.1) Subnet mask: 255.255.255.0 Default gateway: 192.168.1.1 (default LAN IP)
- 2) Connect the PC to any port (except WAN0) on the device.
- 3) Visit <u>http://192.168.1.1</u> by Chrome browser.

192.168.1.1	Ruíjie	
	Easy Gateway	
	Internet Explorer 10/11, Google Chrome, Firefox Recommended	1
	Please enter the username	
	Please enter the password	
	Forgot password?	

- 4) Enter the username and password on the login page and click "Log In".
 Default Username: admin
 Default Password: admin
- 5) Change the password at the first login.

FLUJIE EG2100-P Config Wizard				
	Reset Pwd			
	Plea	ase reset the ad	min password.	
		User Name:	admin	
	New Pa	assword:		
	Confirm	Password:		
		Next		



Ruffie EG2100-P Config Wizard				
	Contract Pwd	Scenario		
		Select S	Scenario	
	Ge _{Appl}	neral	S&M Enterprise Applicable to small & medium sized enterprises.	
		Previous	Next	

Configure the WAN port (DHCP, Static IP or PPPoE).

It is not recommended to change the IP of LAN port; otherwise, you may need to log in and configure again. After wizard completes, you can configure LAN port on the interface configuration page.

Ruijie EG2100-P Config Wizard	I				
	Seset Pw	vd Scenario	o Inte	erface Finish	
WAP WA Int	Gi0/0 N Port: WANO ANO(Gi0/0) : erface IP: Gi0/2 I Port: LAN7	Static IP Address Static IP Address PPPOE DHCP	- Submask	- Next Hop	
LAI	N2-LAN7(Gi0/2):	192.168.1.1 Previous	- 255.255.255.	ext	

Ruராச EG2100-P Config Wizard					
	Reset Pwd	🧭 Scenario	Interface	Finish	
			,		
	Delivering	Please do not ne	rform any operat	on	
	Delivering	.riease do not pe	norm any operat		
		10%			

6) Click **Dashboard** to open the homepage, or click **Interface** to enter the interface configuration page. If the WAN port is connected to the Internet, you can access the Internet now and add the EG to the Cloud.

Ruffe EG2100-P Config Wizard					
	Reset Pwd	Scenario	Interface	🧭 Finish	
		$\langle \cdot \rangle$	\mathbf{i}		
		Operation s	ucceeded.		
	1	Dashb	oard		
		Interf	ace		

1.2 Setup via Mobile App (Recommended)

1.2.1 Configure WAN Uplink Port

1) Connect AP710 to any of LAN1-LAN7 ports on EG2100-P. After AP is powered on, it will broadcast the default SSID: RJ-xxxxxx (xxxxxx is the last six digits of EG2100-P SN).

2) Launch **Ruijie Cloud** App, tap **Tool** menu, and tap **Gateway Setup** to start the Gateway Quick Setup, as shown below:



3) Log in with the default account (username: admin, password: admin).



4) Reset the Web management password, and tap **Next** (**Note**: This password is required when you add EGs by scanning the QR-code).

← Gateway Quick Setup
Rujje EG2100-P Config Wizard
O - O - O - Reset Pwd Scenario Interface O Finish
Please reset the administrator passwor
User Name: admin
New Password:
Confirm Password:
Next

5) Select a **Scenario.** If you select the **S&M Enterprise**, Flow Control Configuration will be added to the wizard. Here you can just tap **Next** to enter the **Interface** settings.

← Gateway	Quick Setup
Ruijie EG210	0-P Config Wizard
Reset Pwd Scenar	io Interface
0-1	0
Select	Scenario
Select	Scenario
Select	Senario
Select General Applicable to all	S&M Enterprise
Select General Applicable to all scenarios.	S&M Enterprise Applicable to small &
Select General Applicable to all scenarios.	S&M Enterprise Applicable to small & medium sized
Select General Applicable to all scenarios.	S&M Enterprise Applicable to small & medium sized enterprises.
Select General Applicable to all scenarios.	S&M Enterprise Applicable to small & medium sized enterprises.
Select General Applicable to all scenarios.	S&M Enterprise Applicable to small & medium sized enterprises.

6) Configure the WAN port (PPPoE, Static IP or DHCP), tap **Next** and wait for about 5 seconds until a success message is displayed. (**Note**: After the message is displayed, EG will restart).

← Gateway Quick Setup	
EG2100-P Config Wizard Control Control Config Wizard Control Control Config Wizard Control Config Wizard Config Wizard Co	
GI0/0 WAN Port: WAN0 (GI0/0): DHCP GI0/2 LAN Port: LAN2-LAN7	
Costoway Quick Sotup	
Ruffe EG2100-P Config Wizard Image: Config Wizard Image: Config Wizard Image: Config Wizard Ima	← Gateway Quick Setup COUNTRY EG2100-P Config Wizard OPA CONFIG WIZ

7) The initial configuration complete. Now you can create the network and add devices on App.

1.2.2 Add Network and Device

1) Open the **Ruijie Cloud** App, tap **Create Network**, and enter the network name and SSID.

Ruijie (Cloud	Create Network	← Cre	eate Network
Dashboard My N	etworks	C	Set up a new networ	k
Networks	Devices Online/Total 0/15	Clients	Network:	
Total Alarms:	5 New Alarms: 3		SSID:	@Ruijie-WiFi
Devices			Encryption:	()
	15			Create
	DEVICES			
🔶 APs: 12	Switches: 2	🧕 Gateways: 1		
Ruijle Cloud Pr	educt Marketi	mg Tool		

2) After the network is created, enter the network and tap **Add Device** to add AP and EG2100-P by scanning the QR code (AP SN/MAC) on the back of the device. (**Note**: When adding an EG, you need to enter its Web management password.)

			-	5:20 PM		*	& © ? ™ + ⊂ ■
8 Ruijie Cloud		Create	e Network	÷	Den	nokit	C
Dashboard My Networks HK-Demo Created 10 days ago	R 0	<u> </u>	, G			ternet	Network Quality:
tytfgh Created 11 days ago	R 0	<u> </u>	>		(🕞 0 dev	rices added	
Demo Created 12 days ago	冬 1	<u> </u>	>				
hill_test Created 2 months ago	8 0	<u>–</u> 0/0	>				
Ruijie-ID Created 4 months ago	8 0	<u> </u>	>				
RuijieEAP1 Created 7 months ago	8 0	<u> </u>	>	O. Add Device	Inspection	Optimization	n Monitoring
7201_Roaming 몹 프 Ruijie Cloud Product	Market	ing	D Tool	<u>,</u> Alarm	پ Upgrade	WiFi Setting	s More

÷	Add Device	-
	Align QR Code within frame to scan	
	ाः ि Scan QR Code Add Manuall	y

3) Wait for about 3 to 5 minutes, and you can see the online status of AP and EG devices.



The SN/MAC QR-Code demo on the back of AP:



1.2.3 Advanced Configuration

1) After an EG comes online on the Ruijie Cloud, you can visit its eWeb page for advanced configuration. Select the EG in the **Gateway List**, and click **eWeb**.

1		MC	NITORIN	G	CONFIGURA	TION	MAINTENAN	CE T	Sec.					e e
	DASHBOARD	ALL	⊻) te	sting ~	Q									Time Zone:
	ALARM	Gate	way List											0
ш	ANALYSIS	Add	iateway	eWeb	More - 1 Select	ed								6
	Quality Traffic	8	Status		SN	Allas	MGMT IP	MAC	Public IP	Group		Firmware Version	Offline Time	Model
	Access Point Switch	8	Online 0	н	MSC0M000172	EG2100-P	192,168,30,2	8005 8857.eddf	112.54.33.113	testing	EG_RGOS 11 S	R(1)B11S1, Release(06142521)	2019-03-25 20:35:00	EG2100-P
	Client Client							First	Previous	Page 1	of 1	Next		
	DEVICE			-	_	-	Contraction of the local division of the loc							
	Access Point Switch Gateway						T			1				
	CLIENT												City of the local day	

2) After the tunnel is created, the Web management page will open automatically, as shown below:



3) If the following information is displayed, click **Proceed** to enter the eWeb system.

←	\rightarrow	G	A Not secure	https://35.197.154.215:11267/autologin.php?key=dXNIcm5hbWU9YWRtaW4mcGFzc3dvcmQ9cnVpamIIMTIz	☆	R	:
				A			
				Your connection is not private			
				Attackers might be trying to steal your information from 35.197.154.215 (for example,			
				passwords, messages, or credit cards). <u>Learn more</u>			
				NET:::EKK_CEKT_AUTHOKITATINAYID			
				Help improve Safe Browsing by sending some system information and page content to Google.			
				Privacy policy			
				Hide advanced Back to safety			
				This server could not prove that it is 35.197.154.215 ; its security certificate is not trusted			
				by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection.			
				Proceed to 35.197.154.215 (unsafe)			

$\leftarrow \rightarrow$	C A Not se	ecure https://35.197.154.215:11267/main.htm	☆ 🖪 :
Ruij	jie eg	Scenario: S&M Enterprise 🙆 🗖 Config Wizard 📯 Online Service 🛛 Hi	i, admin 🗸
Home	Dashboard	Dashboard	
~		Common Function (S&M Enterprise)	
Flow			
(1) Security	PoE Power	How Control Behavior Policy VPN Local Server Auth Interface Info Device Info	
, ,		💼: On 💼: Off CPU Usage: 26.7%	
ے User		WAND LAN2-LAN7 Memory Usage: 22,4%	
6		Configured Configured System Time: 2019-3-25 23:57:42	
Ø Network		EG2100-P EG_RGOS 11.9(1)81151,	
~		Traffic Summary Release(06142521) Details	
"⊋" WLAN		Interface: All Interfaces 🔻 Time: 1h All Interfaces over last 1h, Downlink Traffic peak value is 0.	.00Mbps
\odot		All Interfaces Traffic Summary Downlink Traffic	
Expand		1.00Mbps	
		0.80Mbps	
		0.60Mbps	
		0.40Mbps	
		0.20Mbps	
		23:00 23:05 23:10 23:15 23:20 23:25 23:30 23:35 23:40 23:45 23:50	23:55
		Before How Control Passea Traffic	
		Model: EG2100-P Web Version: 2018.9.20.19 Details ©2000-2019 Ruijie Networks Co., Ltd Service Portal Service Mail Official Website Onli	ine Service

2. Common Functions

Click **Common** on the menu for commonly-used functions.



3. Cache Configuration

EG supports static resource (such as image, video and file) cache and App cache (both on iOS and Android).

Cache is disabled by default. You can enable it in the Service menu (device will restart).

Ruij	jie eg				Scenario: General 😮	Config Wizard	A Online Service	Hi, admin 🗸
∎ Home	Dashboard	Service						
Common	Service Interface Status	Note: You ca Tip: Enablin	an disable uncommon f g or disabling some fur	functions here. The disabled functi nctions requires device restart.	ons will not run in backend or run at startup.			
₩ Flow	PoE Power Support	Func	tion Name	Status	Desci	iption		Action
E ehavior			Cache	Enabled	Provide resource cache, App cache, floatii device will be restarted. Menu: [Cache > App Cache] [Cache > AD]	ng ADs and other functio	ons. Note: The ser > Floating	Disabled
(🏹 Cache		App-E	ased Route	Disabled	Provide App routing and proxy. Menu: [Network > Route/Load > App-Ba:	sed Route]		Enable
Û		Se	erver Log	Disabled	Provide server log for SNC server and ELC Menu: [Advanced > System Log > Serve	DG server. r Log]		Enable
Security			Elog	Disabled	Correlate with and configure Elog server. Menu: [Advanced > Elog]			Enable
Q User								

3.1 Resource File Cache

Static resources, including files, images and videos, can be cached on EG.

Step1: Set up one HTTP server and upload the file to be cached.

Step2: Enable the cache, and input the resource address (MUST be based on HTTP resource).

Ruij	jie eg	Scenario: Common 🥫 Config Wizard 🔗 Online Service Hi, admin 🛩
∆ Home	Realtime Status	Monitoring Hot Spot Resource Settings
÷	Resource Cache	Nota: During configuring resources distribution address if address is domain name, you need configure DNS firstand at most configure 10 addressess.
Common	App Cache	Note: Do not recommend to configure internet website as distribution address, or it may cause website cannot be accessed. This module uses TCP proxy, which will conflict with the Internet shield mode, make sure that the Internet shield mode is turned off.
Flow		Enable Caches ON
Behavior		Resources Distribution Address Cache Capacity (Used: 776.44MB, Total Capacity: 100.000G8) Disk Capacity (Free: 444056.28MB, Total Capacity: 469454.72MB)
(A)		Resources Address1 : http://172.31.61.15/ * X Delete + add
ŵ		Source IP:
Security		Save Clear All
Q User		Resources Distribution Settings
() Network		Latest Distribution Status: [Latest Distributed Details]
â		Interval: 180 🔮 •
Advanced		Distribution Time: $0 + H 0 + M \sim 0 + H 0 + M $ Start Distributing
		Save Restore Default Values

Example

When cache is disabled, the traffic mainly comes from WAN:



When cache is enabled:



As the file is downloaded from cache, the WAN traffic throughput is lower and the Internet bandwidth is saved. Even when the Internet bandwidth is limited to 0.5 Mbps, the download speed can reach 15.5MB/s (124Mbps).

3.2 iOS App Cache

lep1		Arr cache and select 105-based App.
Ruj	jie eg	Scenario: General 🥝 🛛 🗟 Config Wizard
☆ Home	Resource Cache	App Cache
common	App Cache	Note: If address is a domain name, please configure DNS first. The domain name cannot start with https. This module uses TCP proxy, which will conflict with the Internet shield mode, no turned off. Tip: The Apple store server address is 'iosappe.itunes.apple.com', it is recommended to add this address.
Flow Flow		APP Cache: ON Cache Details Cache External Storage APP Cache Capacity (Used: OB Total: 750.00MB Disk Capacity (Free: 2473.17MB Total: 2724.34MB
a		Select App
Cache		Phone App: IOS-based App Android-based App
() Security		Save Clear All
Q User		APP Server Address

Step1: Enable APP Cache and select iOS-based App.

Step2: Enter the App server address and enable all HTTP. Keep the App name and App address empty.

م APP Se	rver Address	
lavanced	All HTTP (Port 80)	1
	Address1 : itunes.apple.com * X Delete	add
	Save Clear All	
Carbo	Enacified Ann QAnn Name (Android based and Anala based Analisation	<u>,</u>
Cache	specified App wapp Name (Android-based and Apple-based Application	,
	App Name1 : * X Delete	+add
	Save Clear All	
Cache		
	Address1 : * X Delete	+add
	Save Clear All	

Step3: After STA begins to download the App from App Store, you can check the EG cache status.

Ruij	JIE EG	Scenario: General 🔮 💦 Config Wizard
∂ Home	Resource Cache	App Cache
E Common	App Cache	Note: If address is a domain name, please configure DNS first. The domain name cannot start with https. This module uses TCP proxy, which will conflict with the Internet shield mode, muturned off.
₩ Flow		APP Cache: ON Cache Details Cache External Storage
⊈ ⊘ Behavior		APP Cache Capacity (Used: 08 Total: 750.00MB) Disk Capacity (Free: 2473.17MB Total: 2724.34MB) Select App
Cache		
() Security		Save Clear All
User		APP Server Address

EG caches the App when the STA downloads the App for the first time. Note: URL in iTunes varies with iPhone model.

R Cache Details - Google Chrome		
Not secure 172.31.61.250/woc_pi/app_cachedetail.htm		
Latest Successful Cache		
Cache Name	Cache Size	Cache Time
iosapps.itunes.apple.com/apple-assets-us-std- 000001/Purple124/v4/fa/e2/89/fae28917-d300-7671-224a-d7aa0c5f12c5/pre- thinned4796250749405821649.thinned.signed.dpkg.ipa	200.13MB	20190221 11:24:10
iosapps.itunes.apple.com/apple-assets-us-std- 000001/Purple124/v4/74/ac/13/74ac13d3-4b77-0e9f-8109-6caef294f491/pre- thinned4796250749405821649.thinned.signed.dpkg.ipa	200.08MB	20190221 11:00:17
Show No.: 10 V Total Count:2	I∢ First ∢ Pre 1 Ne	ext 🕨 Last 🕅 🚺 🚺 😡
Latest Failed Cache		
Cache Name	Cache Size	Cache Time
No Record Found		
Show No.: 10 • Total Count:0	li First ∢ Pre Ne	ext ▶ Last № 1 GO

3.3 Android App Cache

EG supports Android APK download link (Note: Google Play is not supported).

Step1: Enable APP Cache and select Android-based App.

Ruj	jie eg	Scenario: Common 🙆 🔽 Config Wizard 🖄 Online Service 🛛 Hi, admin 🗠
∆ Home	Resource Cache	App Cache
Common	App Cache	Note: If address is domain name, you need configure DNS first, and address cannot be HTIPS address This module uses TCP proxy, which will conflict with the Internet shield mode, make sure that the Internet shield mode is turned off.
₩ Flow		APP Cache: CM [Latest Distributed Details]
Behavior		APP Cache Capachy(Used: 428.16M8 , Total Capachy: 100.0008) Disk Capachy(Free: 889083.55M8 , Total Capachy: 938772.03M8) Select App
(🏹 Cache		Phone App: Apple-based App Androld-based App
U Security		Office App: Windows Patch 360 Safety Guard Patch Tencent Computer Manager Custom Type: Use to separate types. Example: ipalapk
Q User		Custom Feature: Use to separate features. Example: windowsupdate[360safe
() Network		File Type: apk URL Feature:
() WLAN		Save Clear All
٢		APP Server Address

Step2: Enter the App server address and enable all HTTP, as shown below:

WEAIN	
ۇغ Advanced	APP Server Address
ravancea	Ø All HTTP (Port 80)
	Address1 : app.ruljienetworks.com * X Delete
	Save Clear All
	Cache Specified App @App Name (Android-based and Apple-based Application)
	App Name1 : +add
	Save Clear All
	Cache Specified App®Time Window
	Address1 : Address1 + add
	Save Clear All

Step3: STA begins to download from the above link.

Ruj	jie eg	Scenario: Common 🍘 🏾 🕄 Config Wizard 🖄 Online Service 🛛 Hi, admin 🛩
∆ Home	Resource Cache	App Cache
Common	App Cache	Note: If address is domain name, you need configure DNS first, and address cannot be HTTPS address! This module uses TCP proxy, which will conflict with the Internet shield mode, make sure that the Internet shield mode is turned off. Tip: The download server of Apple store is Tosapps:hunes.apple.com ² , recomment to add this resources address.
Flow		APP Cache: 01 [Latest Distributed Details]
Eehavior		APP Cache Capacity(Used: 428.16M8 ; Total Capacity: 100.0006) Disk Capacity(Free: 889083.55M8 ; Total Capacity: 938772.03M8)
Cache		eierr uhh
U Security		Apple-based App Apple-based App
Q User		Custom Feature: Use to separate (spes: Example: .pagipk Use to separate features. Example: windowsupdate 360safe
() Network		ile Type: apk JRL Feature:

EG caches the App when the STA downloads the App for the first time.

Cache Details - Google Chrome	one want of some one the	
Not secure 172.31.61.250/woc_pi/app_cachedetail.htm Latest Successful Cache		
app.ruijienetworks.com:50090/tool/app/RuijieCloudAppV1.4.1OutPut.apk	25.95MB	20190221 16:00:51
iosapps.itunes.apple.com/apple-assets-us-std- 000001/Purple124/v4/fa/e2/89/fae28917-d300-7671-224a-d7aa0c5f12c5/pre- thinned4796250749405821649.thinned.signed.dpkg.ipa	200.13MB	20190221 11:24:10
iosapps.itunes.apple.com/apple-assets-us-std- 000001/Purple124/v4/74/ac/13/74ac13d3-4b77-0e9f-8109-6caef294f491/pre- thinned4796250749405821649.thinned.signed.dpkg.ipa	200.08MB	20190221 11:00:17
Show No.: 10 • Total Count:3	I4 First ∢ Pre 1 Next ▶ Last ▶I 1 GO	
Latest Failed Cache		
Cache Name	Cache Size	Cache Time
No Record Found		
Show No.: 10 • Total Count:0	I First ∢ Pre Next ▶ Last ▶ 1 GO	

When other STAs download the App again in the same network, they will get App from EG Cache.