

# Ruijie RG-EST Series Bridges

Web-Based Configuration Guide

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#### Preface

Thank you for using our products.

#### Audience

This manual is intended for:

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

#### **Obtaining Technical**

#### Assistance

- Ruijie Networks Website: <u>https://www.ruijienetworks.com/</u>
- Technical Support Website: <u>https://ruijienetworks.com/support</u>
- Case Portal: <u>https://caseportal.ruijienetworks.com</u>
- Community: <u>https://community.ruijienetworks.com</u>
- Technical Support Email: <u>service\_rj@ruijienetworks.com</u>
- Skype: <u>service\_rj@ruijienetworks.com</u>

#### **Related Documents**

Documents	Description
Command Reference	Describes the related configuration commands, including command modes, parameter descriptions, usage guides, and related examples.
Hardware Installation and Reference Guide	Describes the functional and physical features and provides the device installation steps, hardware troubleshooting, module technical specifications, and specifications and usage guidelines for cables and connectors.

This manual uses the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in <b>boldface</b> .
<i>italic</i> font	Arguments for which you supply values are in <i>italics</i> .
[]	Elements in square brackets are optional.
{ x   y   z }	Alternative keywords are grouped in braces and separated by vertical bars.
[ x   y   z ]	Optional alternative keywords are grouped in brackets and separated by vertical bars.

### 1 Overview

eWeb is a Web-based network management system that manages and configures devices. You can access eWeb via browsers such as Google Chrome.

Web-based management involves the Web server and Web client. The Web server is integrated in a device, and is used to receive and process requests from the client, and return processing results to the client. The Web client usually refers to a browser, such as Google Chrome IE, or Firefox.

### 1.1 Conventions

In this document:

Texts in bold are names of buttons (for example, OK) or other graphical user interface (GUI) elements (for example, VLAN).

### 2.1 Preparation

#### Scenario

As shown in the figure below, administrators can access the device from a browser and configure the device through the eWeb management system.



**Remarks** The eWeb management system combines various device commands and then delivers them to the device through AJAX requests. The device then returns data based on the commands. A Web service is available on the device to process basic HTTP protocol requests.

#### Deployment

#### **U** Configuration Environment Requirements

Client requirements:

- An administrator can log into the eWeb management system from a Web browser to manage devices. The client refers to a PC or some other mobile endpoints such as laptops or tablets.
- Google Chrome, Firefox, IE9.0 and later versions, and some Chromium-based browsers (such as 360 Extreme Explorer) are supported. Exceptions such as garble or format error may occur if an unsupported browser is used.
- 1024 x 768 or a higher resolution is recommended. If other resolutions are used, the page fonts and formats may not be aligned and the GUI is less artistic, or other exceptions may occur.
- The client IP address is set in the same network as the LAN port of the device, such as 10.44.77.X. The subnet mask is 255.255.255.0. The default gateway is device management address 10.44.77.254.

Server requirements:

- You can log into the eWeb management system through a LAN port or from the Ruijie Cloud on an external network.
- The device needs to be enabled with Web service (enabled by default).
- The device needs to be enabled with login authentication (enabled by default).

To log into the eWeb management system, open the Google Chrome browser, and enter 10.44.77.254 in the address bar, and press **Enter**.

If the device is not configured yet, you can log into eWeb without a password.

Figure 2-1-1 Login Page

Rujje 篇Rcycc
Hi, EST310(I)
Login
Forgot Password? English V
Google Chrome and IE browser 9, 10 or 11 are supported. Copyright@2000-2020 Ruijie Networks Co., Ltd.

After entering the password and clicking **Login**, you will enter eWeb.

Figure 2-1-2 Overview

	Ξ		English 🗸 Camera (CPE) 🕹 Pair Again 🍤 Log Out
C Overview	• Alarm		
lan 🛞	Configuration is uninitialized. Hostname Not Set: 2. @		
℅ Wireless ✓ ℅ Diagnostics ✓	WDS Group Info WDS Groups : 1		X Patsword ♥   X IP Atocation ♥   X SSD ♥
💥 System Tools 🗸	WDS Group1		
	AP: 1 . (Ruijie) CPE: 1 . (Online: 1 , Offline: 0)	Channel :52 WDS SSID :@Ruijie-wds-10c0	Latency @: Favert(1)         Jtler(0)         Freazet(0)         Bandwidth @: Good(1)         Medum(0)         Poor(0)            Interference @: Good(1)         Medum(0)         Poor(0)         RS51 @: Good(1)         Medum(0)         Poor(0)
			Strong Signal: — Medium Signal: — Poor Signal: —
	∨ VCR (AP)     Ruijie 2.		Latency 3ms Rate 20048ps Flow 2 9.82Xbps Liptone 14Min02Sec RSI 1560 RC 0 0.018 ff.fr.09 Latency 3ms Rate 20048ps Flow 2 9.82Xbps Liptone 14Min02Sec MAC: 00.00.18 ff.fr.09 EXEMPT 12: 156.110.76 Online

### 2.2 UI Introduction

Top: Global settings, including Language, Log Out and Pair Again.

Column in Orange: Alarm messages.

Middle Column: Settings for all EST devices in the network, including Password, IP Assignment, and SSID.

Column in Blue: WDS group and paired devices.

Figure 2-2-1 UI Introduction

				English 🗸 Cam	era (CPE) 🖉 Pair Again	
Coverview	● Alarm Configuration is uninitialized, Hosiname Not Set: 2. ●					~
♥ Diagnostics ∨	WDS Group Info WDS Groups : 1			X Password 🕘 🗙 I	P Allocation 🖗 🛛 💥 SSID 🕯	9
X System Tools ∨	WD3 Group1 AP 1 (Ruijie) CPE 1 (Online: 1 , Offline: 0)	Channel :52 WDS SSID @Ruijie-wde-f0c0	Lationcy & Fluett(1) Jifte(0) Freeze(0) Bandwidth & Good(1) Medium(0) Poor(0) Interference & Good(1) Medium(0) Poor(0) RSSI & Good(1) Medium(0) Poor(0) Strong Sional — Medium Sional — Poor Sional —	i.		~
	∨ VCR (AP)     Ruije 2.      Corr     MAC: 00.74.as.e0.10.c0     STERE IP: 152.158.110.73     Online		Latency 3ms Rate> 500Mpps Flow> 14 53Kdps R591-158b > 982Kdps Uptime 144/n035ec	amera (CPE) Ruijie & MAC: 00:d0:16:ff:ff 13300 IP: 192.168.110.76	▶ 16 ⊕ ~ :09 5 Online	

Click Pair Again to set the WDS pair. You can switch the work mode and change an SSID.

Figure 2-2-2 WDS Pair Settings

	E						English 🗸 Cam	nera (CPE) 🖉 Pair Again	tog Out
1 Overview	Alarm								
lan 🛞	Configuration is uninitialized. Hostname Not Set. 2.		Note	×					
Wireless     Wireless     V     Diagnostics     ✓	WDS Group Info WDS Groups 1		<ul> <li>You can reset the device to restore default pairing status.</li> <li>Pairing Status: Default</li> </ul>				🗶 Password 🌒 🛛 🗶	IP Allocation 🛛 🕴 💥 SSID 😡	
💥 System Tools 🗸	WUS Group1 AP. 1. (Ruijie) CRE 1. (Diline 1)	Channel :52 WDS SSID (SR)disawdc.mch	Work Mode: Camera (CPE) WDS SSID: @Ruijie-wds-f0c0 Custom: 1. Support one-to-many (one AP to many CPEs).	reeze(I	0) Bandwidth <b>0</b>	Good(1) Medium(0) Poo			
	VCR (AP)		2. Replace the paired device.	Signa	31 —		Camera (CPE)		
	Ruijie 2 © ~ MAC: 00.74 aa e0 10.c0 E11310 19: 192 168 110.73 Online		Latency 4ms Rate — 200Mbps	s. Flow	→ 13.04Kbps RSSI	-15db ie 14Min24Sec	Ruijie 2. MAC: 00:00:18:11.1 ESTATO IP 192:168:110.7	▶ 16 @ ∨ 109 6 Online	

#### Figure 2-2-3 Work Mode Switchover

	Ē				English 🗸 Camera (CPE) 🖉 Pair Again	🗢 Log Out
습 Overview	• Alarm					
lan 🛞	Configuration is uninitialized. Hostname Not Set: 2 . •		Mode Switchover			
S Wireless	WDS Group Info WDS Groups 1		Work Mode: Camera (CPE)		X Password 🜒 X IP Allocation 🌒 X SSID 🖗	
💥 System Tools 🗠	WDS Group1		Previous			
	AP 1 (Ruijie) CPE 1 (Online 1 Offline 0)	Channel :52 WDS \$SID @Ruije-wds-f0c0	Latency • Fluent(1) Jitter(0) Freeze(0) Interference • Good(1) Medium(0) Por	Bandwidth @ Good(1) Medum(0) Po or(0) RSSI @ Good(1) Medum(0) Poor(0)	or(0)	
			Strong Signat. 🛑 Medium Signat 🛑 Poor Signat	-		
	◇VCR (AP)				◇ Camera (CPE)	
	Ruijie 2 © ~ MAC: 00.74/aa:e0.f0:c0		Latency 4ms Rafe — 200Mbps Flow	→ 13.04Kbps RSI-15db ~ 9.43Kbps Uptime 14Min24Sec	Ruijie 2. > 16 > ~ MAC: 00 d018 fff 09 E513100 IP 192 168 110.76 Online	

#### Figure 2-2-4 SSID Settings

#### Configuration Guide

Reyce	E							Eng	ish \vee 🛛 Camera (CPE) 🖉 Pair Ag	ain 🗢 Log Out
☆ Overview	• Alarm									~
@ LAN	Configuration is uninitialized. Hostname Not Set. 2 . •			WDS SSID	×					
😪 Wireless 🔗	WDS Group Info WDS Groups 1		Scan and sele * WDS SSID:	ect WDS SSID or enter W	DS SSID. Scan	WDS SSID List (Clic	k to select a	X F SSID.) X	2assword • XIP Allocation • X S	SID 🛛
💥 System Tools 🗸	WDS Group1 AP. 1. (Ruijie)	Channel :52	Previous		Next	Search by SSID	DEEL	Re-scan		
	CPE 1. (Online, 1., Offline, 0)	WDS SSID @Rulpe-wds-f0c0		Interference a Signal: — Medium S	Good(1) Medi      kgnal Poc	@Ruijie-wds-f0c0	-14	MACCEST310001		
	◇ VCR (AP)					@Ruijie-wds-ff0d @Ruijie-wds-8325	-84 -51	MACCEST310A2F	(CPE)	
	Ruijie 2. © ~ MAC 00.74/aa.e0.10.c0			Latency 3ms Rate	→ 90Mbps ← 200Mbps				uijie 2 >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
									J	

### 3 eWeb Configuration

### 3.1 Overview

The **Overview** page displays alarms, WDS group, network information and detailed information about devices in the network.

#### Alarm

Hover the mouse over the number in red, and an alarming device list will appear. Click a device in the list, and its detailed information will be displayed in the sidebar on the right.

Figure 3-1-1 Alarm

Alarm <u>Configuration is uninitialized.</u> Hostname Not Set: 2.		~
WDS Group Info WDS Groups : 1		X Password  V IP Allocation  X SSID
St WDS Group1		
AP: 1 . (Ruijie)	Channel :52	Latency 0: Fluent(1) Jitter(0) Freeze(0) Bandwidth 0. Good(1) Medium(0) Poor(0) V
CPE: 1 . (Online: 1 , Offline: 0)	WDS SSID :@Ruljie-wds-f0c0	Interference 0: Good(1) Medium(0) Poor(0) RSSI 0: Good(1) Medium(0) Poor(0)
		Strong Signal 🚥 Medium Signal 🚥 Poor Signal 🚥
◇ VCR (AP)		♦ Camera (CPE)
Ruijie 2 @ ~ MAC: 00:74:aa:e0:10:c0		Latency 3ms Rate → 90Mbps Flow → 8.77K0ps RS3I-15db ← 200Mbps Flow ← 6.31K0ps Uptime 19Min16Sec 40.00:00:018:ff:ff:09 €33300 IP: 192.168.110.76 Online

#### **Network Information**

This area displays all WDS groups, password settings, IP assignment and SSID settings. You can manage the EST device by accessing the SSID. The default SSID is @Ruijie-XXXX (the last four digits of the MAC address). After you set a new SSID, the default SSID will be disabled. The new SSID will be hidden two hours after WDS is locked.

Figure 3-1-2 Network Information

v	VDS Group Info WDS Groups : 1				X Password 🖗	X IP Allocation	🗙 SSID 🔞	
Los	WDS Group1							
	AP: 1. (Ruijie)	Channel :52	Latency 0: Fluent(1) Jitter(0) Freeze(0)	Bandwidth @: Good(1) Medium(0) Poor(0)				$\sim$
C	PE: 1. (Online: 1, Offline: 0)	WDS SSID :@Ruijie-wds-f0c0	Interference (): Good(1) Medium(0) Poor(0)	RSSI (): Good(1) Medium(0) Poor(0)				

Click **Password**, and the **Password** page will appear.

Figure 3-1-3 Password Settings

eWeb Configuration

#### Configuration Guide

Alarm				
Configuration is uninitialized. Hostname Not Set: 2	Password		×	
WDS Group Info WDS Groups : 1	* Pa	SSWORD Please enter a password.		X Password 🔍 👘 💥 IP Allocation 🔍 👘 💥 SSID 🔮
WDS Group 1	* Confirm Pa	Please enter the password again.		
AP 1 (Ruijie) CPE 1 (Online: 1 , Offline: 0)	Channel 52 WDS SSID (	Save	Bandwidth @: Good(1) Mi RSSI @: Good(1) Mediumi	adium(0) Poor(0) ~ ~
o.VCR (AP)				ି Camera (CPE)
Ruijie 2 @~		Latency 3ms Rate -> 90Mbr -> 200Mbr	xs Flow → 8.84Kbps RSSI -15db pps Flow ← 7.18Kbps Uptime 17Min115	sec Ruijie 化 > 16 ⊕ ~

Click IP Assignment, and the IP Assignment page will appear.

#### Figure 3-1-4 IP Assignment

Hostname Not Set 2 .			IP Allocati	on	×		
		O Ass	lign static IP addresses to	conflicting devices.			
VDS Group Info WDS Groups 1		IP Assignment	Static IP Address			* Password • * IP Allocation • * SSI	DØ
WDS Group1		* Start IP Address	192.168.110.2	0 0			
AP: 1 (Ruijie)	Channel :52				Bandwidth 🐠 G	iood(1) Medium(0) Poor(0)	
PE: 1 . (Online: 1 , Offline: 0)	WDS SSID	Subnet Mask	255.255.255.0		RSSI 🔕 Good(1)	) Medium(0) Poor(0)	
		* Gateway	192, 168, 110, 1				
VCR (AP)						○ Camera (CPE)	
Ruijie 🖉 🔍		* DNS Server	Example: 114.114.114	114.	5Kbps RSSI-1 Kbps Lintime	15db Ruijie 🖉 🏊 16 🗇 🗸	
MAC: 00.74:aa:e0:10:c0		IP Count	253			MAC: 00:d018:ff:ft09 EST3101 IP: 192:168 110.76 Online	
			ОК				

Click  $\ensuremath{\text{SSID}}$  , and the  $\ensuremath{\text{SSID}}$  Settings page will appear.

Figure 3-1-5 SSID Settings

Alarm <u>Configuration is uninitialized.</u>						
Hostname Not Set. 2 .		SSID Settings		×		
WDS Group Info WDS Groups 1		Enable WiFi				X Password 🔍   🔅 IP Allocation 🔍   🔅 SSID 🕥
WDS Group1		* SSID:	@Ruijie-FF09			
AP 1 (Ruijie) CPE 1 (Online 1, Offline 0)	Channel :52 WDS 55ID :	Security:	Open ~	Bandwidth R551 0 G	0 Good(1) Medium(0)	Poor(0) ~
		Hide SSID:	(The SSID must be manually entered exactly.)			
◇VCR (AP)			Save			◇ Camera (CPE)
Ruijie 2 @~ MAC: 00.74/aa:e0:f0:c0				8Kbps F OKbps L	RSSI -16db Jptime 17Min53Sec	

#### WDS Group

This area displays basic information about each WDS group and the paired devices (AP/CPE). You can click  $\geq$  to expand the area or click  $\leq$  to collapse the area. Click an IP address of another device, and you will be redirected to its login page.

Figure 3-1-6 WDS Group

WDS Group1			
AP: 1 . (Ruijie)	Channel 52	Latency (): Fluent(1) Jitter(0) Freeze(0) Bandwidth (): Good(1) Medium(0) Poor(0)	~
CPE: 1 . (Online: 1 , Offline: 0)	WDS \$SID :@Ruijie-wds-f0c0	Interference O. Good(1) Medium(0) Poor(0) RSSI O. Good(1) Medium(0) Poor(0)	
		Strong Signal: — Medium Signal: — Poor Signal: —	
◇ VCR (AP)		◇ Camera (CPE)	
Ruijie 2		Latency 3ms Rate	

Click <sup>(2)</sup> to expand the menu of each device, including LAN, WDS and Reboot.

#### Figure 3-1-7 Device Settings

.

WDS Group Info WDS Groups : 1		X Password 🔍   X IP Allocation 🔍   X SSID 🔍	
WDS Group1 AP: 1. (Ruijie) CPE: 1. (Online: 1. Offline: 0)	Channel :52 WDS SSID :@Ruijie-wds-f0c0	Latency ©: Fluent(1) Jitter(0) Freeze(0) Bandwidth ©: Good(1) Medium(0) Poor(0) Interference ©: Good(1) Medium(0) Poor(0) RSSI ©: Good(1) Medium(0) Poor(0)	~
◇ VCR (AP)		Strong Signat — Medium Signat — Poor Signat — ◇ Camera (CPE)	
Ruijie &		Latency 3ms         Rate         → 90Mbps ~ 200Mbps         FHow         → 8.77K0ps         RSSI-15db         Ruijie         № 16 © ~           MAC:         00:00:76:17:09         00:176:00         00:10:51:17:09         00:10:51:17:09	
WDS Reboot			

#### Click LAN, and the LAN page will appear.

Figure	3-1-8	LAN	Settings
--------	-------	-----	----------

Alarm     Configuration is uninitialized.     Hosiname Not Set: 2.	LAN		×	
WDS Group Info WDS Groups 1	IPA	ssignment DHCP ~		X Password 🔍   🔀 IP Atocation 🔍   💥 SSID 🕥
WDS Group1		DHCP does not require an account.		
AP 1. (Ruijie) CPE 1. (Online 1. Offline: 0)	Channel 52 WDS SSID :	IP Address 🖧	Bandwidth 🐠 G	ood(1) Međum(0) Poor(0)
	Sut	bnet Mask 0.0.0.0		
◇ VCR (AP)		Gateway 0.0.0.0	7Kbps RSSI-1	♦ Camera (CPE) 1500 1500 1500
Ruijie         Z           MAC:         00.74.aa:e0.10.c0           (51310)         IP           192.168.110.73         Online	D	NS Server 0.0.0.0	1Kbps Uptime	19Min16Sec
		Submit		

Click **WDS**, and the **WDS** page will appear.

Figure 3-1-9 WDS Settings

#### eWeb Configuration

#### Configuration Guide

Alarm     Configuration Is uninitialized.     Hostname Not Set: 2.	WDS	×
WDS Group Info WDS Groups 1	WDS (Mode: CPE)	. 19 Password 🔍   194 IP Allocation 🌒   194 SSID 🜑
AP-1 (Ruije) Channel 5 CPE-1 (Online 1, Offine 6) WDS 500	* WDS SSID @Ruijie-wds-f0c0 Scan	Nandwath @ Good(1) Medium(0) Poor(0) ~ ~
◇ VCR (AP)	Channel & Transmit Power	⇔ Camera (CPE)
Ruijie 2	Channel 52	7Kbps RSSI-15db IK0ps Uptime 19Min16Sec Ruijie & № 16 © ~ NAAC: 00.dt0/81/ft.09
<b>51310</b> IP. 192 168.110.73 Online	Channel Width 40MHz	ST300 IP- 192.168.110.76 Online
	In CPE mode, the local channel and channel width are co with the peer channel and channel width.	onssient
	Transmit Power Auto	
	Distance 1KM V	
	Save	

Click **Reboot**, and confirmation message "Are you sure you want to reboot device X?" will appear. Check **OK**, and the device will be rebooted.

#### Figure 3-1-10 Reboot

			X Password 🛛 🛛 X IP Allocation 🕄	X SSID 😡
Channel 52	Latency <b>0</b> . Fixent(1) Jitter(0) Freeze(0)	Bandwidth Ø Good(1) Medium(0	) Poor(0)	
WDS-SSID @Ruije-wds-flic0	Interference   Good(1) Medium(0) Poor(0)  you sure you want to reboot device Ruijie?	RSSI (): Good(1) Medium(0) Poo		
	Cancel OK Latency 3ms Rate - 200Mbps Filew -	• 8.77Kbps RSSI -15db - 6.31Kbps Uptime 19Min16Sec	○ Camera (CPE)       Ruijie 2     > 16 ☺ ∨	
	Channel 52 WDS SSID @Rupe-wdz-f0c0 @ Are	Channel 52 WD5 5510 @Ruge.wdo-f0c0 MD5 5510 @Ruge.wdo-f0c0 Are you sure you want to reboot device Rugie? anos Lakery 316 Mail and anos Lakery 316 Mail and anos Lakery 316 Mail and anos Lakery 316 Mail and anos Are you sure you want to reboot device Rugie?	Channel 52 WD5 55ID @Ruje=wid=Roct WD5 55ID @Ruje=wid=Roct Are you sure you want to reboot device Rujje? Cancel C Cancel C C Cancel C C Cancel C C Cancel C C Cancel C C C C C C C C C C C C C C	Channel 52 Latency @ Fuerf(1) Jffer(9) Freeze(0) Bandwidth @ Good(1) Medium(0) Poor(0) WD5 5550 @Ruije.wds-fbc0 Interference @ Good(1) Medium(0) Poor(0) R551 @ Good(1) Medium(0) Poor(0)  Are you sure you want to rebool device Ruije? Cancel Concel

Click a device (AP or APE), and its detailed information will be displayed in the sidebar on the right.

Figure 3-1-11 Device Details

Alarm			Device: Gr	oup 1 / CPE / Ruijie (Select a device to view its details)
Configuration is uninitialized. Hostname Not Set: 2 . @			Setup: LAN	WDS Rebool O
WDS Group Info WDS Groups : 1 WDS Group 1 AP 1. (Ruijie) CPE 1. (Online: 1, Offline: 0)	Channel 52 WDS SSID ;@Ruljie-wds-f0c0	Latency @ Fluen(1) Jitter(0) Freeze(0) Bandwidth @ Good(1) % Interference @ Good(1) Medium(0) Port(0) RSSI @ Good(1) Medium	SYS	WDS SSID: Ruijie 2 Uptime 26Min4Sec Net Status: Connected Model: EST310() SN: 2HAOSBEST3103 Software Ver: 1.00 MAC: 00.0018.fff.09
<ul> <li>VCR (AP)</li> <li>Ruijie ∠</li> <li>Ruijie ∠</li> </ul>		Strong Signal — Medium Signal: — Poor Signal — Latency 3ms Rate — 90Mbps Flow — 6.77K0ps RSSI-1550 — 200Mbps Flow — 6.31K0ps Uptime 19Min16	LAN	IP Address: 192.168.110.76 Subnet Mask: 255.255.255.0 LANO: 100baseT/Full-Duplex LAN1: Disconnected
E31300 IP 192.168.110.73 Online			WI-FI	Noise Floor/Utilization; -105 dBm / 18% Distance; 1000M Channel; 52 Transmit Power; 27dBm Channel Width: 40MHz RSSI; -15db Band; 5.8G

### 3.2 LAN

The LAN settings provide two IP assignment options: Static IP Address and DHCP.

#### Figure 3-2 LAN Settings

Configure LAN s	ettings.	?
IP Assignment	DHCP V	
	DHCP does not require an account.	
IP Address	# 	
Subnet Mask	0.000	
Gateway	0.0.0	
DNS Server	0.0.0	
	Submit	

### 3.3 Wireless

#### 3.3.1 WDS

Figure 3-3-1 WDS Settings

eWeb Configuration

WDS Comore (C			
Configure WDS par	PE) ameters.		?
WDS			
* WDS SSID	@Ruijie-wds-f0c0	Scan	
	Save		
Channel & Trans	mit Power		
5G Channel	Auto 🗸	Interference	
Channel Width	40MHz 🗸		
	In CPE mode, the local channel	and channel width are consistent with the peer channel and channel width.	
Transmit Power	Auto ~		
Distance	1KM V		
	Save		

Click **Scan** to view the SSIDs of the nearby networks.

#### Figure 3-3-2 Scan SSID

WDSCamera (C Configure WDS pa	CPE) rameters.				
WDS					
* WDS SSID	@Ruijie-wds-f0c0	Scan	WDS SSID List (CI	ick to select a	a SSID.) ×
	Save		Search by SSID		Re-scan
			WDS SSID	RSSI	SN
Channel 8 Trans	mit Dowor		@Ruijie-wds-f0c0	-14	MACCEST310001
Channel & Trans	smit Power		@Ruijie-wds-ff0d	-84	
5G Channel	Auto	💛 🗎 Interferer	r @Ruijie-wds-8325	-52	MACCEST310A2F
Channel Width	40MHz				
	In CPE mode, the local cha	annel and channel			
Transmit Power	Auto				
Distance	1KM				
	Save				

#### 3.3.2 Region

After you change the region, all WDS links will be off. If the specified region does not support the channel settings, the auto channel will be used instead.

Figure 3-3-3 Region Settings

After you change the	he region, all WDS links will be off. If	the specified region does not support the cha	nnel settings, the auto channel will be us	sed instead.	
Region	China (CN) v				
	Save				

### 3.4 Diagnostics

#### 3.4.1 Network Tools

There are three network tools available: Ping, Traceroute, and DNS Lookup.

Figure 3-4-1 Ping Test and Result



#### Figure 3-4-2 Traceroute Test and Result



Figure 3-4-3 DNS Lookup Test and Result

eWeb Configuration

(

### 3.4.2 Fault Collection

The Fault Collection module allows you to collect faults by one click and download the fault information to the local device.

Figure 3-4-4 Fault Collection

Fault Collection     Compress the configuration into a file for engineers to identify fault.		
Start		

### 3.5 System Tools

#### 3.5.1 Time

This module allows you to set and view system time.

Figure 3-5-1 System Time

Configure and view	time (The device has no RT)	C module. The time se	not be saved upon reboot).			
Current Time	2020-07-17 09:50:29	dit				
* Time Zone	(GMT+8:00)Asia/Shangt	nai ~				
* NTP Server	0.cn.pool.ntp.org	Add				
	1.cn.pool.ntp.org	Delete				
	cn.pool.ntp.org	Delete				
	pool.ntp.org	Delete				
	asia.pool.ntp.org	Delete				
	europe.pool.ntp.org	Delete				
	rdate.darkorb.net	Delete				
	Save					

### 3.5.2 Management

#### 3.5.2.1 Backup & Import

This module allows you to import a configuration file and apply the imported settings. It also allows exporting the configuration file to generate a backup.

Figure 3-5-2 Backup & Import

Backup & Import Reset Session Timeout	
Backup & Import  If the target version is much later than the current version, some configuration may be missing. It is recommended to choose Reset before importing the setup. The device will be rebooted automatically later.	?
Backup Setup	
Backup Setup Backup	
Import Setup	
File Path         Please select a file.         Import	

#### 3.5.2.2 Reset

This module allows you to reset the device.

#### Figure 3-5-3 Reset



Please exercise caution if you want to restore the factory settings.

Figure 3-5-4 Reset Confirmation

Backup & Import Reset Session Timeout	
Reset ResetIng the device will clear the current configuration. If you want to keep the configuration, please Export Setup first.	?
Reset	
Тір ×	
Resetting the device will clear the current configuration and reboot the device. Do you want to continue?	
Gancel	

Click **OK** to restore all default values. This function is recommended when the network configuration is incorrect or the network environment is changed. If you fail to access the eWeb management system, check whether the endpoint is connected to the device by referring to <u>Preparation</u>.

#### 3.5.2.3 Session Timeout

This module allows you to set the session timeout.

#### Figure 3-5-5 Session Timeout

Backup & Import Reset	Session Timeout			
i Session Timeout				
* Session Timeout	3600	Sec		
	Save			

#### 3.5.3 Update

#### 3.5.3.1 Online Update

Click **Update Now**. The device downloads the update package from the network, and updates the current version. The update operation retains configuration of the current device. Alternatively, you can select **Download File** to the local device and import the update file on the <u>Local Update</u> page. If there is no available new version, the device displays a prompt indicating that the current version is the latest, as shown in the figure below.

Figure 3-5-6

Online Update Online update will keep the current configuration. Please do not refresh the page or close the browser. You will be redirected to the login page automatically after update.
Current Version AP_3.0(1)B2P18,Release(07191706) (Your version is the latest.)

#### 3.5.3.2 Local Update

Select an update package, and click Upload. The device will be updated to the target version.

#### Figure 3-5-7 Local Update

Local Update Please do not refresh the page or close the browser.	?
Model EST310(I)	
Version AP_3.0(1)B2P18.Release(07191706) 1.00	
Keep Setup 🧧 (If the target version is much later than the current version, it is recommended not to keep the setup.	
Update File Select Browse Uplead	

#### 3.5.3.3 Update All Devices

This module allows you to update all devices in the network with their configuration retained, as shown in the figure below.

#### Figure 3-5-8 Update All Devices

Online Update Local Up	date Update All Devices	
Update All Devices Update all devices in the	e network. Please do not refresh the page or close the browser.	?
Model EST310(I)		
Version AP_3.0(1)B2F	18,Release(07191706) 1.00	
Keep Setup <table-cell> (Uneditab</table-cell>	le)	
Update File Select	Browse Upload	

#### 3.5.4 Reboot

This module allows you to reboot the device with a click, as shown in the figure below:

#### Figure 3-5-9 Reboot



Click **Reboot**, and click **OK** in the confirmation box. The device is rebooted and you need to log into the eWeb management system again after the reboot. Do not refresh the page or close the browser during the reboot. After the device is successfully rebooted and the eWeb service becomes available, you will be redirected to the login page of the eWeb management system.

## 4 FAQs

#### Q1: I failed to log into the eWeb management system. What can I do?

Perform the following steps:

(1) Check that the network cable is properly connected to the LAN port of the device and the corresponding LED indicator blinks or is steady on.

(2) It is recommended to connect to WiFi @Ruijie-xxxx using IP address 192.168.120.1.

(3) Run the ping command to test the connectivity between the PC and the device.

(4) If the login failure persists, restore the device to factory settings.

#### Q2: What can I do if I forget my username and password? How to restore the factory settings?

To restore the factory settings, power on the device, and press and hold the **Reset** button for 5s or more, and release the **Reset** button after the system LED indicator blinks. The device automatically restores the factory settings and restarts. The original configuration will be lost after the factory settings are restored. After the restoration, the default management address of the LAN port is <u>http://10.44.77.254</u> and the default wireless management address is <u>http://192.168.120</u>.1. You can set the username and password upon first login.

# Q3: The subnet mask value needs to be specified to divide the address range for certain functions. What are the common subnet mask values?

A subnet mask is a 32-bit binary address that is used to differentiate between the network address and host address. The subnet and the quantity of hosts in the subnet vary with the subnet mask.

Common subnet mask values include 8 (default subnet mask 255.0.0.0 for class A networks), 16 (default subnet mask 255.255.0.0 for class B networks), 24 (default subnet mask 255.255.255.0 for class C networks), and 32 (default subnet mask 255.255.255.255.255.255 for a single IP address).