

# Eweb Configuration Sample For FAT AP

RGOS Version 11.1(5) B9P5

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# I Preface

## Audience

Ruijie business partners and customers who are responsible for configuring and maintaining Ruijie wireless devices.

## Revision Record

Version	Release Date	Contents	Author
V1.0	2015.8	First Release	Scott
V1.1	2016.8	Add Custom Landing Page Template	Oscar

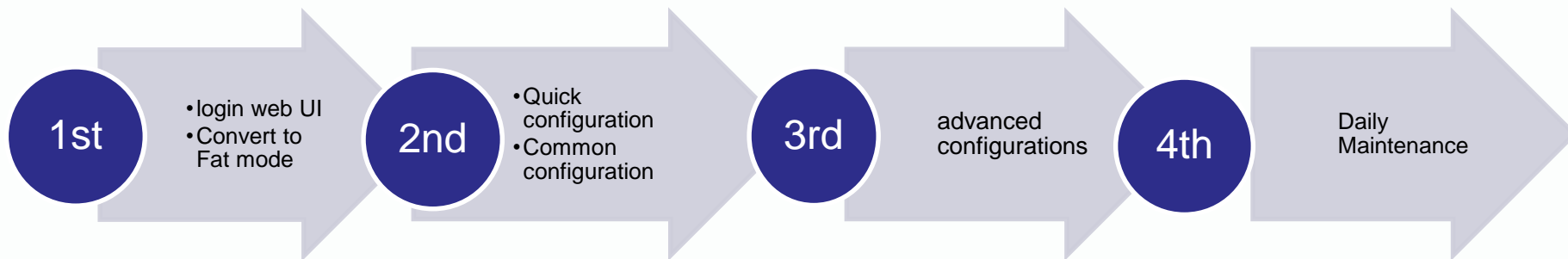
Note :

For more detail configuration , see configuration guide for each product . you can download configuration guide at <http://www.ruijienetworks.com>

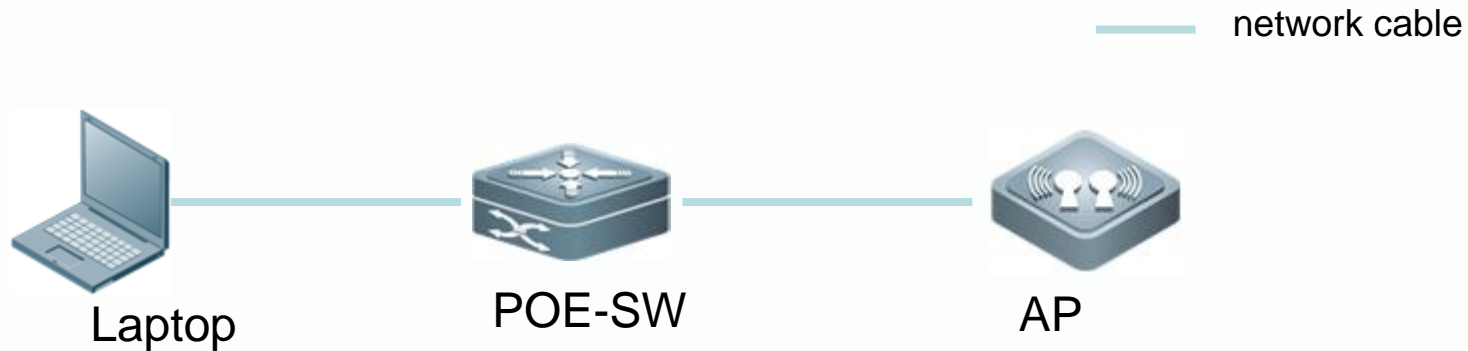
For more technical enquiry , you can visit Ruijie Service portal at <http://case.ruijienetworks.com> . You need to sign up before submit a case.

# I Preface

- This slide is going to guide you how to configure Ruijie AP in Fat mode with web management tool----- Eweb
- In 1<sup>st</sup> part , you will study how to initialize AP including login Web UI and convert to Fat AP
- In 2<sup>nd</sup> part , there are 2 most practical configuration scenarios .
- In 3<sup>rd</sup> part , there are some advanced configurations .
- In 4<sup>th</sup> part , daily maintenance
- The brief workflow is as below :



# | Initialization : Connect and power on AP



- ❑ As shown in above diagram , you need one POE switch to power AP on .(POE adapter is also ok)
- ❑ Put both laptop and AP in the same vlan .By default , the IP address of AP is 192.168.110.1/24 , so assign IP address 192.168.110.2/24 to laptop.
- ❑ Now , laptop should be able to communicate with AP. You can verify it by ping.

# Initialization : Login Web Management Page

- Open browser and visit <http://192.168.110.1> You will see below login page  
The default identity is that **Username: admin** & **Password: admin**

1.input username : admin

2.input password : admin

# Initialization : Convert AP from fit mode to fat mode

- ❑ Go to “System” -> “System Mode” in the left ,select “Fat AP Mode” in the right AP will reload and switch to Fat mode.

Note : By default , AP works in Fit Mode.

The screenshot shows the Ruijie AP eWEB interface. The left sidebar contains navigation options: Settings, Monitor, Upgrade, Network, Restart, Permissions, Security, Logging, Detection Tools, Advanced, Web Cli, and System. The 'System Mode' option is selected. The main content area is titled 'System Mode' and shows 'Current Mode: Fat AP Mode'. Three network diagrams are displayed:

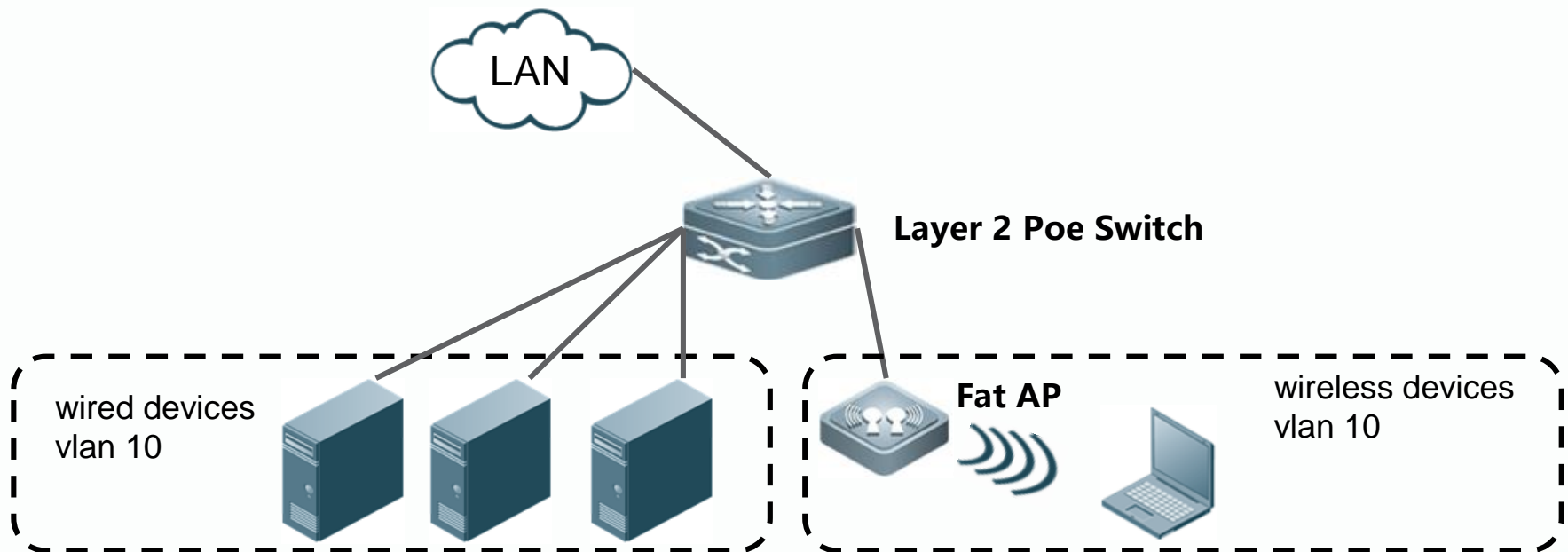
- Fit AP Mode:** Shows an AC connected to an Internet cloud, a POE SW connected to the AC, and two APs connected to the POE SW. One AP is connected to a CLIENT.
- Fat AP Mode (Selected):** Shows a ROUTER connected to an Internet cloud, a POE SW connected to the ROUTER, and two APs connected to the POE SW. One AP is connected to a CLIENT.
- macc:** Shows an Internet cloud connected to a MACC, a ROUTER connected to the MACC, a POE SW connected to the ROUTER, and two APs connected to the POE SW. One AP is connected to a CLIENT.

Below the diagrams, there are radio buttons for 'Fit AP Mode', 'Fat AP Mode' (which is selected), and 'macc'. A red note states: 'Note: The device restarts after mode switch. Please wait for a minute.' A red box highlights the text 'select "Fat AP Mode"'. The top right of the interface includes links for 'Quick Settings', 'Online Service', 'Simplified Chinese', and 'Logout'.



# | Scenario 1 : Quick Configuration

- ❑ If it is the first time you configure Ruijie AP , your requirement is just one “plug and play ” AP to broadcast only one SSID , it is recommend to use “Quick configuration”.
- ❑ “Quick configuration” allows you to configure a WLAN by simply specifying the “SSID name” and “password” . Then ,you can plug AP in your network and it will extend wired to wireless .



# Scenario 1(1): Modify vlan and management IP

- ❑ Eweb will prompt the “Quick configuration” for the first time you login.
- ❑ Also ,you can open “Quick configuration” in the top right of Eweb.
- ❑ First choose access mode
- ❑ Assign one management IP address to Fat AP.

The screenshot shows the Ruijie AP EWEB interface. The left sidebar contains navigation options: Settings, Monitor, Upgrade, Network, Restart, Permissions, Security, Logging, Detection Tools, Advanced, Web CLI, and System. The main content area displays the 'Quick Settings—External Network Settings' dialog box. The dialog box has the following fields and options:

- AP Working Mode:  AP Access Mode  Wireless Routing Mode
- Note: In AP access mode, an AP is connected to a router or switch that accesses the network to provide WiFi in scenarios such as in offices or hotels.
- VLAN: 1
- Internet Connection Type: Static IP (Dedicated IP)
- IP: 192.168.2.135
- Mask: 255.255.255.0
- Default Gateway: Optional
- Note: This function is designed for ease of use based on user scenario. It is recommended to configure the function via Web instead of CLI. Aggregate port configuration is not supported.
- Next button

Three red boxes with white text provide instructions:

1. Keep the vlan setting
2. Assign management IP address
3. Click “Next”

# Scenario 1(1):Set SSID name and password

- ❑ Specify SSID name and set password .
- ❑ So far “Quick configuration” has finished !

The screenshot displays the Ruijie AP eWEB interface for Model AP740-I. The left sidebar contains navigation options: Settings, Monitor, Upgrade, Network, Restart, Permissions, Security, Logging, Detection Tools, Advanced, Web CUI, and System Mode. The main content area shows the 'Quick Settings—WiFi' configuration window. The SSID field is populated with 'Eweb\_69571' and the WiFi Password field is populated with 'ewebwifi'. A 'Show Password' checkbox is checked. A red box highlights the SSID and password fields with the text '1.Specify SSID name and password'. Another red box highlights the 'Finish' button with the text '2.Click “Finish”'. The interface also includes a top navigation bar with 'Quick Settings', 'Online Service', 'Simplified Chinese', and 'Logout' options.

# Scenario 1(2) :Modify management IP

- ❑ Now we choose routing mode
- ❑ Assign one management IP address to Fat AP.
- ❑ And we do not choose NAT

The screenshot displays the Ruijie AP eWEB interface for Model AP740-I. The left sidebar contains navigation options: Monitor (WIFI/WLAN, Channel), Network (External Network), Security (WDS, Internet Auth), Advanced, and System. The main content area shows the 'Quick Settings—External Network Settings' dialog box. The 'AP Working Mode' is set to 'Wireless Routing Mode'. The 'Port' is set to 'Gi0/1'. The 'Internet Connection Type' is 'Static IP (Dedicated IP)'. The 'IP' is '192.168.2.135', the 'IP Mask' is '255.255.255.0', and the 'Default Gateway' is '192.168.2.254'. The 'NAT' checkbox is unchecked. A 'Next' button is visible at the bottom right. Red annotations highlight these key settings.

**1. Choose the port which is connected to switch**

**2. Assign management IP address**

**3. Do not choose nat**

**4. Click "Next"**

# | Scenario 1(2) :Set SSID name and password

- ❑ Specify SSID name and set password .
- ❑ After these configuration we need to write an route point to users in the Layer3 device.
- ❑ So far “Quick configuration” has finished !

The screenshot displays the Ruijie AP eWEB configuration interface. The left sidebar contains navigation options: Dashboard, Monitor, Network, Security, Advanced, and System. The main content area is titled "Quick Settings—WiFi" and contains the following configuration fields:

- SSID: levyrouter
- WiFi Password: 12345678 (with a "Show Password" checkbox checked)
- DHCP:  Enable (IP addresses are allocated by AP)
- Vlan ID: 10
- IP Range: 10.10.10 (start), 1 (step), 254 (end)
- DHCP Gateway: 10.10.10.254
- Preferred DNS Server: 114.114.114.114 (Optional)
- Secondary DNS Server: (Optional)

At the bottom of the configuration panel, there are "Back" and "Finish" buttons. Three red boxes with white text are overlaid on the image to highlight key steps: "1. Specify SSID name and password" points to the SSID field, "2. Create vlan for users" points to the Vlan ID field, and "3. Click 'Finish'" points to the Finish button.

# Scenario 1(3) :Modify management IP

- ❑ Now we choose routing mode
- ❑ Assign one management IP address to Fat AP.
- ❑ And we choose NAT

The screenshot shows the Ruijie AP eWEB interface. The left sidebar contains navigation options: Monitor (WIFI/WLAN, Channel), Network (External Network), Security (WDS, Internet Auth), Advanced, and System. The main content area displays the 'Quick Settings—External Network Settings' dialog box. The dialog box has the following fields and options:

- AP Working Mode:  AP Access Mode,  Wireless Routing Mode
- Port:  (If you want to change the port, please go to device configuration.)
- Internet Connection Type:
- IP:  \*
- IP Mask:  \*
- Default Gateway:  \*
- NAT:  Check this box if you want to convert all internal addresses to external addresses.

Annotations in red boxes point to these specific settings:

1. Choose the port which is connected to switch
2. Assign management IP address
3. Choose nat
4. Click "Next"

# Scenario 1(3) :Set SSID name and password

- ❑ Specify SSID name and set password .
- ❑ So far “Quick configuration” has finished !

The screenshot shows the Ruijie AP eWEB interface for Model AP740-I. The left sidebar contains navigation options: Dashboard, Monitor (User Info), Network, Security, Advanced, and System. The main content area displays the 'Quick Settings - WiFi' configuration page. The page includes the following fields and options:

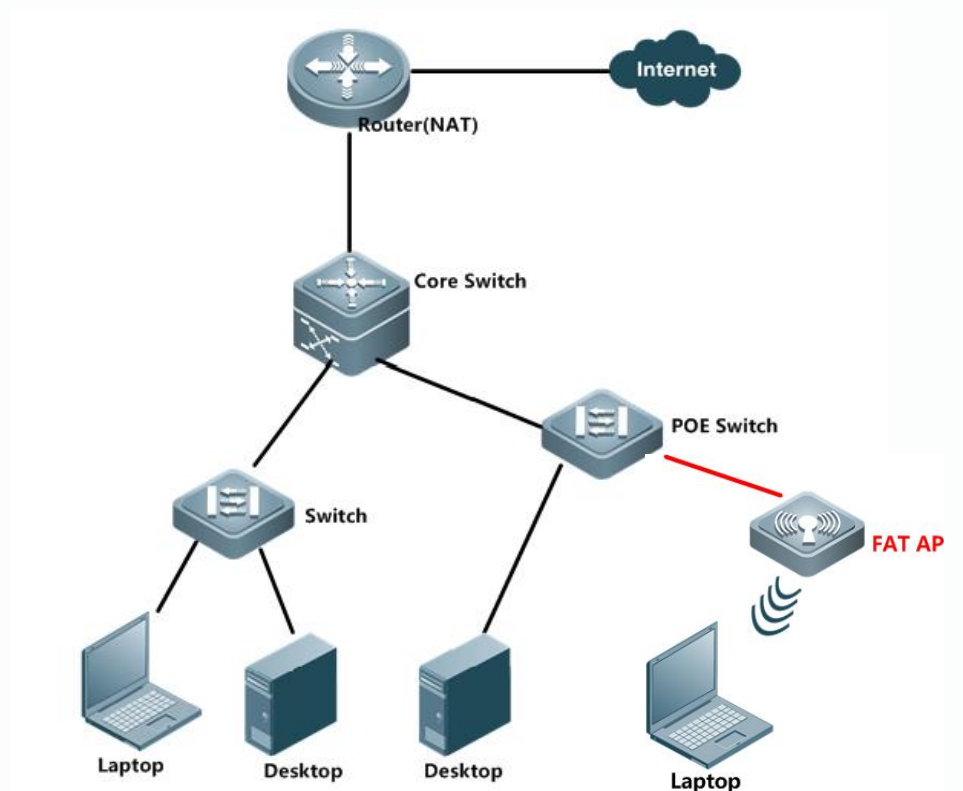
- SSID: levyrouter
- WiFi Password: 12345678 (with a checked 'Show Password' checkbox)
- DHCP:  Enable (IP addresses are allocated by AP)
- Vlan ID: 10
- IP Range: 10.10.10, 1, to 254
- DHCP Gateway: 10.10.10.254
- Preferred DNS Server: 114.114.114.114 (Optional)
- Secondary DNS Server: (Optional)

Red boxes highlight the following elements:

- 1. Specify SSID name and password (pointing to the SSID and WiFi Password fields)
- 2. Create vlan for users (pointing to the DHCP and Vlan ID fields)
- 3. Click "Finish" (pointing to the Finish button)

# Scenario 1 : Verification

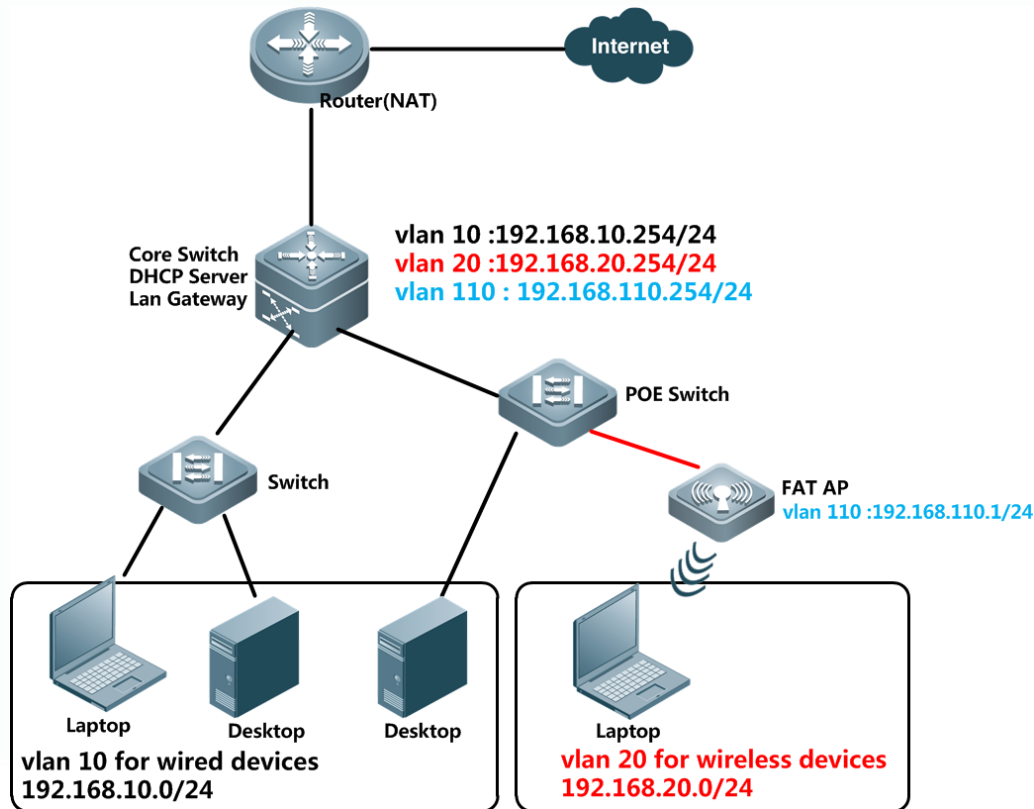
- Connect this FAT AP to your network , and it starts to broadcast SSID “Eweb\_226A1” . Connect to this SSID and input password , you are able to obtain the network.





# Scenario 2 : Normal Configurations

- ❑ Compare with “Quick configuration”, if you want to configure multiple SSIDs and customize additional settings like ,vlan , DHCP etc , “Normal Configuration ” is prefer.
- ❑ Following sample displays a common enterprise wired network . Now we are going to build wireless network. In design ,besides common wired network , we create two more vlans : one for AP management , the other one for wireless users .



## Note :

- Set Core switch as gateway for vlan 10,20 and 110.
- Set Core switch as DHCP Server for vlan 10,20 and 110.
- You can also set Fat AP as DHCP Server for vlan 20.(optional , will cover in following content)

## Scenario 2 : Configure POE Switch

- ❑ It is recommended to set the POE port on POE switch in Trunk mode and untag ap management vlan 110. Trunk port is able to forward traffic of multiple vlans so that you can configure multiple ssids and map one ssid to one vlan.
- ❑ Also , you can set POE port on POE switch in access mode , but access port is able to forward traffic of only one vlan .

**For example , on Ruijie POE switch,**

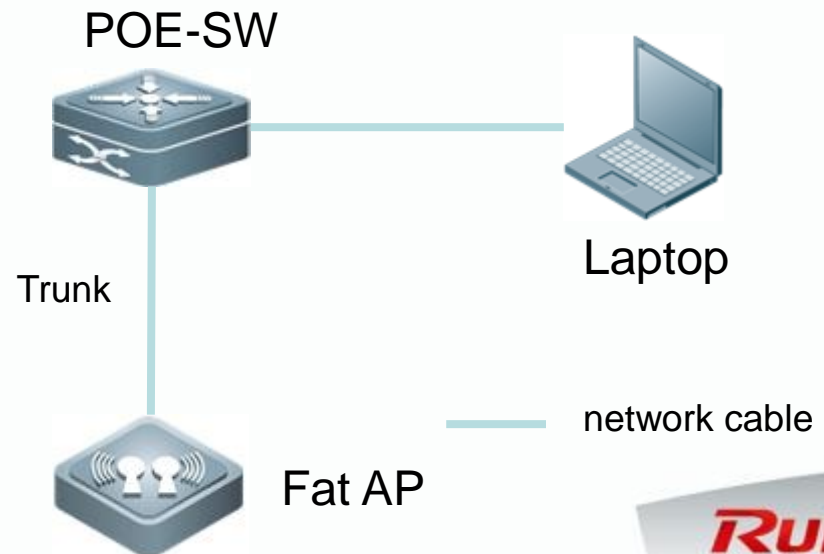
interface GigabitEthernet 0/1

switchport mode trunk

switchport trunk native vlan 110

poe enable

description link-to-fat AP



# | Scenario 2 : Create a new WLAN

- ❑ Log into Eweb , go to “WiFi/Wlan” , click the “+” button to create a new Wlan .
- ❑ Unfold “Advanced Settings” , map SSID “NewWlan” to vlan 20

The screenshot displays the eWEB interface for a Ruijie AP (Model: AP740-I). The left sidebar shows navigation options: Monitor, Network, Security, Advanced, and System. The main content area is titled 'WIFI-WLAN' and shows a configuration page for a new WLAN. The page includes a 'Wlan Id' field (set to 1), an 'SSID' field (set to 'NewWlan'), an 'Encryption Type' dropdown (set to 'WPA/WPA2-PSK'), and a 'WiFi Password' field (set to 'ewebwifi'). A 'Show Password' checkbox is checked. Below these fields is an 'Advanced Settings' section, which is expanded. The 'Advanced Settings' section includes a 'Hide SSID' checkbox (unchecked), a 'WiFi Type' section with three radio buttons (2.4G, 5G, 5G) all checked, and a table for configuring VLAN and DHCP for each radio type. The table has three rows: 2.4G, 5G, and 5G. Each row has a 'VLAN' dropdown (set to 1) and a 'DHCP' dropdown (set to 'Enabled on switches or gateway'). A 'Save' button is at the bottom. Red boxes with numbers 1-4 highlight the steps: 1. Click '+', 2. Fill in 'SSID' and 'Password', 3. Unfold 'Advanced Settings', and 4. Click 'Vlan'.

**1. Click “+” button**

**2. Fill in “SSID” and “Password”**

**3. Unfold “Advanced Settings”**

**4. Click “Vlan”**

# Scenario 2 : Create a new VLAN

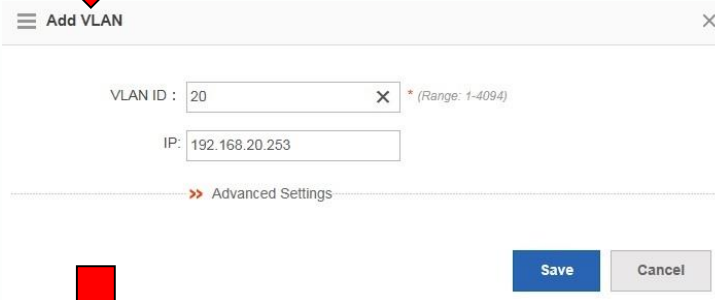
- Map SSID “NewWlan” to vlan 20 ,so create vlan 20 first

1. Click “Add VLAN”



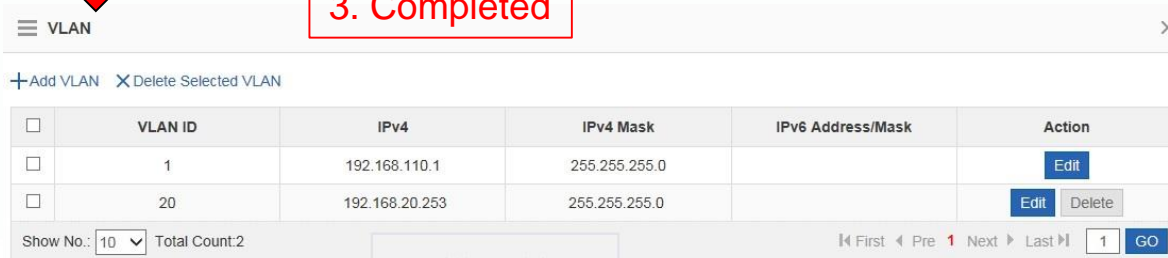
The screenshot shows the 'VLAN' management page. At the top left, there is a menu icon and the text 'VLAN'. Below it, there are two buttons: '+ Add VLAN' and 'X Delete Selected VLAN'. A table with the following columns is displayed: 'VLAN ID', 'IPv4', 'IPv4 Mask', 'IPv6 Address/Mask', and 'Action'. The table contains one row with 'VLAN ID' 1, 'IPv4' 192.168.110.1, and 'IPv4 Mask' 255.255.255.0. An 'Edit' button is next to this row. Below the table, there is a 'Show No.' dropdown set to '10' and 'Total Count: 1'. On the right, there are navigation buttons: 'First', 'Pre', 'Next', 'Last', and a 'GO' button.

2. Fill in Vlan ID and assign IP address to BVI 20



The screenshot shows the 'Add VLAN' form. A red arrow points to the 'VLAN ID' input field, which contains the value '20'. Below it, the 'IP' input field contains '192.168.20.253'. There is a red box around the 'Save' button. The form also includes a 'Cancel' button and a link for 'Advanced Settings'.

3. Completed



The screenshot shows the 'VLAN' management page after adding a new VLAN. The table now has two rows: one for VLAN ID 1 and one for VLAN ID 20. The 'Add VLAN' button is highlighted with a red box. The 'Show No.' dropdown is set to '10' and 'Total Count: 2'. The 'GO' button is visible at the bottom right.

# Scenario 2 : Map SSID to VLAN

- ❑ Map both 2.4G and 5G radio to VLAN 20 .
- ❑ Remain DHCP settings by default if you set DHCP Server on Core switch
- ❑ Read next page if you set DHCP Server on Fat AP (Optional)

**Ruijie AP** eWEB Model: AP740-I Detail Quick Settings Online Service Simplified Chinese Logout

WiFi-1 x WiFi-2 +

Note: This function is designed for ease of use based on user scenario. It is recommended to configure the function via Web instead of CLI.

Wlan Id:  \* Range(1-16)

SSID:  \*

Encryption Type:

WiFi Password:  \*  Show Password

Advanced Settings

Hide SSID:

WiFi Type:  2.4G(radio1)  5G(radio2)  5G(radio3) [\[Is signal unstable or weak?\]](#)

2.4G(radio1)	VLAN :	<input type="text" value="1(192.168.2.135)"/>	DHCP :	<input type="text" value="Enabled on switches or gateway."/>
5G(radio2)	VLAN :	<input type="text" value="1(192.168.2.135)"/>	DHCP :	<input type="text" value="Enabled on switches or gateway."/>
5G(radio3)	VLAN :	<input type="text" value="1(192.168.2.135)"/>	DHCP :	<input type="text" value="Enabled on switches or gateway."/>

[How to configure VLAN and DHCP?](#)

Access priority 5G:  OFF

1. Map to Vlan 20

2. Click "DHCP"

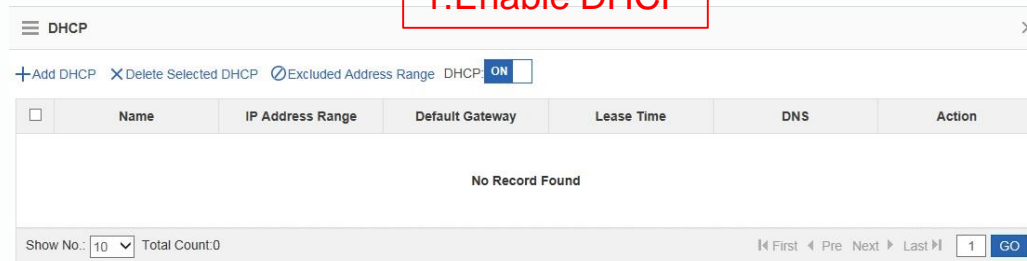
3. Click "Save"

# Scenario 2 : Set DHCP Server on Fat AP (Optional)

- If there is no external DHCP Server , set DHCP Server on Fat AP.

1.Enable DHCP

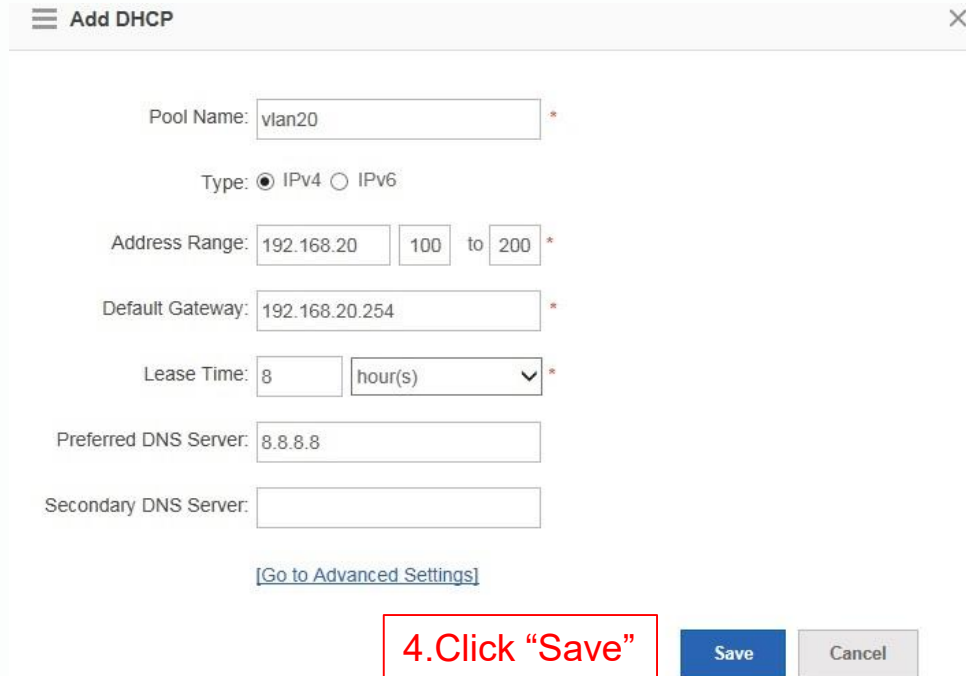
2. Add DHCP



The screenshot shows the DHCP configuration interface. At the top, there is a toggle switch for 'DHCP' which is currently turned 'ON'. Below this is a table with columns for Name, IP Address Range, Default Gateway, Lease Time, DNS, and Action. The table is currently empty, displaying 'No Record Found'. At the bottom, there are pagination controls showing 'Show No.: 10' and 'Total Count: 0'.



3.Fill in required fields "\*", note that "Default Gateway" 192.168.20.254 is IP address of SVI 20 on Core Switch . In addition , remember to specify the DNS Server .



The screenshot shows the 'Add DHCP' configuration form. The fields are filled as follows:

- Pool Name: vlan20 \*
- Type:  IPv4  IPv6
- Address Range: 192.168.20 100 to 200 \*
- Default Gateway: 192.168.20.254 \*
- Lease Time: 8 hour(s) \*
- Preferred DNS Server: 8.8.8.8
- Secondary DNS Server: (empty)

At the bottom, there is a link for '[Go to Advanced Settings]' and two buttons: 'Save' and 'Cancel'.

4.Click "Save"



The image shows two buttons: a blue 'Save' button and a grey 'Cancel' button.

# Scenario 2 : Complete and Save configuration

- ❑ SSID name and password
- ❑ VLAN mapping and DHCP setting

**1. Check SSID name and password**

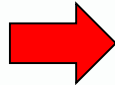
**2. Check VLAN mapping and DHCP Setting**

**3. Click "Save"**

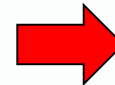
# Scenario 2 : Verification

Follow below steps to Verify wireless function.

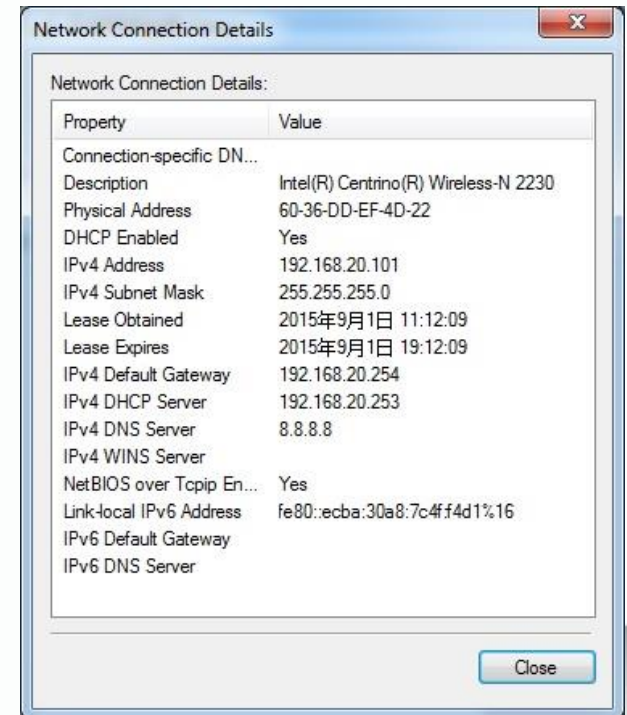
1. Connect your wireless device to SSID "NewWlan"



2. Input the password and click "OK"



3. Connected and obtained IP address of subnet 192.168.20.0/24 and DNS Server





# Advanced Configurations: Modify SSID name and Password

- ❑ Go to “Wifi/WLAN” in the left, select “wlan name” in the right .
- ❑ Modify SSID name and password , then save configuration.

The screenshot displays the Ruijie AP eWEB interface for Model AP740-1. The left sidebar shows the navigation menu with 'WiFi/WLAN' selected. The main content area shows the configuration for 'WiFi-2'. The 'Wlan Id' is set to 2. The 'SSID' field contains 'Eweb\_69572' and is highlighted with a red box labeled 'Change ssid'. The 'Encryption Type' is set to 'WPA/WPA2-PSK'. The 'WiFi Password' field contains 'ewebwifi' and is highlighted with a red box labeled 'Change password'. Below these fields, there are checkboxes for 'Advanced Settings', 'Hide SSID', and 'WiFi Type'. The 'WiFi Type' section is expanded, showing three radio options: 2.4G, 5G, and 5G, each with a 'VLAN' dropdown and a 'DHCP' dropdown. The 'Access priority 5G' is set to 'OFF'. A 'Save' button is located at the bottom of the configuration area.

# Advanced Configurations: Channel ,power and STA limitation

- ❑ Go to “Channel” in the left .
- ❑ Adjust “Channel” , “RSSI “ and Signal Strength , and “Max STA Count ” for both 2.4G and 5G radio .

The screenshot shows the Ruijie AP configuration interface for the 2.4G Network. The left sidebar contains navigation options: Monitor, Network, Security, Advanced, and System. The main content area is titled 'Channel' and includes the following settings:

- 2.4G Network:  ON
- [\[Enforce switch from 2.4GHz to 5GHz Network\]](#)
- Country: China (CN)
- Radio Channel: 1 (Current Channel: 1)
- RF Bandwidth: 20MHZ
- RSSI: Through-wall
- Max STA Count: 32 (range: 1-128)

1.Adjust channel. Channel “1” , “6” and “11” are recommended in 2.4G

2.Adjust RSSI level. Select mode in drop down box

3.Adjust station limitation. By default , 2.4G radio limitation is 32.

1.Adjust channel. Select recommended channel in drop down box.

2.Adjust RSSI level. Select mode in drop down box

3.Adjust station limitation. By default , 5G radio limitation is 32.

The screenshot shows the Ruijie AP configuration interface for the 5G Network. The settings are as follows:

- 5G Network:  ON
- [\[Enforce switch from 5GHz to 2.4GHz Network\]](#)
- Country: China (CN)
- Radio Channel: 149 (Current Channel: 149)
- RF Bandwidth: 20MHZ
- RSSI: Through-wall
- Max STA Count: 32 (range: 1-128)

Save

# Advanced Configurations: Rate limit

- Go to “WiFi/WLAN” in the left , select “Wlan name” in the right , unfold “Advanced settings” (we need to create the wlan first, then set the rate limit)
- The Unit is 8Kbits = 1KBytes , for example, input 256 if you want to limit each wireless STA at speed 256KB/s

Wlan Id: 6 \* Range(1-16)

SSID: Eweb\_69576 \*

Encryption Type: WPA/WPA2-PSK

WiFi Password: ewebwifi \*  Show Password

Advanced Settings

Hide SSID:

WiFi Type:  2.4G(radio1)  5G(radio2)  5G(radio3) [Is signal unstable or weak?](#)

2.4G(radio1)	VLAN :	1(192.168.2.135)	DHCP :	Enabled on switches or gatew.▼
5G(radio2)	VLAN :	1(192.168.2.135)	DHCP :	Enabled on switches or gatew.▼
5G(radio3)	VLAN :	1(192.168.2.135)	DHCP :	Enabled on switches or gatew.▼

[How to configure VLAN and DHCP?](#)

Rate Limit: No Rate Limit/Smart Rate Limiting [\[Rate Limit Settings\]](#)

Access priority 5G:  OFF

Downlink: No Limit ×kB/s

Uplink: No Limit ×kB/s

Save No Limit

Save Delete

# Advanced Configurations: WDS

- Go to both of the root bridge and non-root and create vlan for WDS first.

**Ruijie AP** eWEB Model: AP740-I Detail Quick Settings Online Service Sim

VLAN Settings

**+ Add VLAN** X Delete Selected VLAN

<input type="checkbox"/>	VLAN ID	IPv4	IPv4 Mask	IPv6 Address/Mask	IP Source
<input type="checkbox"/>	1				
<input type="checkbox"/>	10	10.10.10.254	255.255.255.0		Configuration

Show No.: 10 Total Count:2 First Pre 1 Next

### Add VLAN

VLAN ID: 2 \* (Range: 1-4094)

IP: 192.168.2.1 **Configure the ip address**

Advanced Settings

Mask: 255.255.255.0

IPv6 Address/Mask:   +

**Save** Cancel

# Advanced Configurations: WDS

- Then add a new wlan on both of root bridge and non-bridge.

The screenshot displays the Ruijie AP eWEB configuration interface for WDS. The left sidebar shows navigation options: Monitor, Network, Security, Advanced, and System. The main content area is titled 'eWEB Model: AP740-I Detail' and shows configuration for 'WiFi-2'. A note states: 'Note: This function is designed for ease of use based on user scenario. It is recommended to configure the function via Web instead of CLI.' The configuration fields are: Wlan Id: 2 (with a note '\* Range(1-16)'), SSID: WDS (with an asterisk '\*'), and Encryption Type: No Encryption. A red box highlights the 'No Encryption' dropdown with the text 'Choose no encryption'. Below this, the 'Advanced Settings' section is expanded, showing 'Hide SSID' as unchecked and 'WiFi Type' with checkboxes for 2.4G(radio1), 5G(radio2), and 5G(radio3). A table lists the configuration for each radio type, including VLAN and DHCP settings. A red box highlights the 'VLAN' dropdown for 5G(radio2) and 5G(radio3), both set to '3(192.168.3.1)', with the text 'Choose the corresponding vlan'. A 'Save' button is located at the bottom.

Radio Type	VLAN	DHCP
2.4G(radio1)	1	Enabled on switches or gateway
5G(radio2)	3(192.168.3.1)	Enabled on switches or gateway
5G(radio3)	3(192.168.3.1)	Enabled on switches or gateway

# Advanced Configurations: WDS

- ❑ Go to choose WDS, and turn on the button of “5G Network WDS”.
- ❑ And choose the wifi of WDS. Then save the configuration.

The image displays two side-by-side screenshots of the Ruijie AP eWEB interface, specifically the WDS configuration page for Model AP740-I. The left screenshot shows the 'Root bridge' configuration, and the right screenshot shows the 'Non-root bridge' configuration. Both screenshots have red boxes highlighting key configuration elements.

**Left Screenshot (Root bridge):**

- The 'WDS' menu item in the left sidebar is highlighted with a red box.
- The 'Root bridge' tab is selected and highlighted with a red box.
- The '5G Network WDS' toggle is set to 'ON' and highlighted with a red box.
- The 'Operating Mode' is set to 'Root Bridge' (radio button selected) and highlighted with a red box.
- The 'Root Bridge Network' dropdown menu is set to 'WDS(0a69.6c88.695b)' and highlighted with a red box.
- The 'Distance' field is empty.
- The 'Other WiFi Allowed' checkbox is unchecked.
- A 'Save' button is visible at the bottom.

**Right Screenshot (Non-root bridge):**

- The 'WDS' menu item in the left sidebar is highlighted with a red box.
- The 'Non-root bridge' tab is selected and highlighted with a red box.
- The '5G Network WDS' toggle is set to 'ON' and highlighted with a red box.
- The 'Operating Mode' is set to 'Non-root Bridge' (radio button selected) and highlighted with a red box.
- The 'Root-bridge Election' dropdown menu is set to 'SSID-based' and highlighted with a red box.
- The 'SSID' field is set to 'WDS' and highlighted with a red box.
- The 'Distance' field is empty.
- The 'Other WiFi Allowed' checkbox is unchecked.
- A 'Save' button is visible at the bottom.

# Advanced Configurations: Containment

- Make the terminal which is connected to the rouge ap goes offline or has a bad internet experience.

The image displays three screenshots of the Ruijie AP eWEB interface, illustrating the configuration of Containment settings.

**Top Screenshot: Containment Settings**

The interface shows the Containment Settings page for Model AP740-I. The 'Trusted AP' tab is selected. A note states: "Note: The following MAC addresses correspond to trusted APs, which will not be contained." Below this, there is a 'Trusted MAC' section with an '+ Add' button. A 'Trusted Vendor List' section is also visible, featuring a 'Multi-to-Multi' toggle and fields for 'OUI' and 'SSID', each with an '+ Add' button. A 'Save' button is at the bottom.

**Middle Screenshot: Scan All Neighboring APs Dialog**

This dialog box is used to scan for neighboring APs. It includes a 'Scan All Neighboring APs' title, a search field for 'SSID-based', and a table of results. The 'Rogue AP Containment' section has an 'ON' button and a '[Scan All N]' button. The 'Containment Mode' section has four 'Contain' checkboxes, all of which are checked. The 'Containment Range' section has two radio buttons: 'Scan/Cc' and 'Scan/Cc'.

SSID	MAC	Channel
Verizon-MiFi7730L-521C	0015.f0c0.521c	153
aaga	0274.9c00.b7c1	3
RuiYi-C4A0	0274.9c00.c4a5	7
@wyx-hahaha	0286.1110.09c4	4
CMCC-QUP6	04b0.e7ac.84f4	6
pppoe-ipo	0614.4b70.3585	1
pppoe-ipo	0614.4b70.3586	149
ruijie-802.1x	0614.4b70.3fbd	9
ruijie-802.1x	0614.4b70.3fbe	165

**Bottom Screenshot: Containment Mode Configuration**

This screenshot shows the 'Containment Mode' configuration. The 'Containment Mode' dropdown is set to 'Contain APs with RSSI higher' and the 'Refresh' dropdown is set to 'Refresh Every Minute'. Below this is a table of detected APs.

SSID	MAC
private-B7BC	0074.9c09.b7c1
aaga	0274.9c00.b7c1
@wyx-hahaha	0286.1110.09c4
pppoe-ipo	0614.4b70.3585
ruijie-802.1x	0614.4b70.3fbd
ruijie-802.1x	0614.4b70.3fbe
MD-wireless-Z	0669.6c5c.0784
yyw1012	0669.6c68.7397
SSQ-1X	0669.6c77.f1e0
@790DAA	0669.6c79.0dac

At the bottom, the 'Show No.' is set to 10 and the 'Total Count' is 80.

# Advanced Configurations: AP based User Isolation

- ❑ Go to “Security ” ->“User isolation” in the left .
- ❑ Wireless STA that is not in “Allowed MAC” list cannot visit other STA.
- ❑ Wireless STA that is in “Allowed MAC” list can visit other STA

The screenshot displays the Ruijie AP web management interface. The left sidebar contains navigation menus for Containment, Monitor, Network, Security, Advanced, and System. The 'Security' menu is expanded, and 'User Isolation' is selected. The main content area shows the 'User Isolation' configuration page. At the top right, there are links for 'Quick Settings', 'Online Service', 'Simplified Chinese', and 'Logout'. The page title is 'WEB Model: AP740-I Detail'. Below the title, there are two notes: 'Note: The function prevents users from communicating with each other without affecting their access to the network, ensuring service security.' and 'Note: Only Layer-2 isolation is supported currently.' The 'User Isolation' toggle is set to 'ON', highlighted with a red box and the text '1. Turn on User Isolation'. Below this, the 'Allowed MAC' section has a table with columns for 'Username' and 'MAC'. A red box highlights the 'Allowed MAC' section with the text '2. Fill in “Allowed MAC” (optional)'. The 'Current MAC' is displayed as '5869.6c88.6957'. At the bottom, a 'Save' button is highlighted with a red box and the text '3. Save configuration'.



# Advanced Configurations: AP based static Black & White list

- ❑ Go to “Security” ->“MAC based Access Control” in the left.
- ❑ If “AP based blacklist” is enable ,STA in blacklist is unable to access AP.
- ❑ If “AP based white” is enable , only STA in whitelist is able to access AP.

**1. Select “blacklist “ or “whitelist ” mode**

**2. Add MAC address, username is optional**

<input type="checkbox"/>	User Name	MAC	Action
No Record Found			

Current MAC: 5869.6c88.6957 [\[SSID-based Access Control\]](#)

**3. Save configuration**

# Advanced Configurations: AP based static Black list

- ❑ There is another way to add users into Black list.
- ❑ There is one thing needs to mention is that you can add user into blacklist, if there is a need to delete user from blacklist, please go to Blacklist/Whitelist.

User Info

Note: If you want to delete STAs from blacklist, please go to Blacklist/Whitelist.

Refresh **Blacklist** MAC-based:  Search

<input type="checkbox"/>	STA	MAC	IP	Link Duration	Speed(Kbps)	RSSI(dB)	Channel(Radio)	Network	Action
<input type="checkbox"/>	User1	7423.448f.5376	192.168.2.1	0:00:06	Up: 88064/Down: 59392	52	149(2)	Eweb_69576	No Limit <a href="#">Setting</a>

Show No.: 10 Total Count: 1

1. Choose the user you want to add him into the blacklist

2. Click this button

# Advanced Configurations : SSID based static Black & White list

- ❑ Go to “Security” ->“MAC based Access Control” in the left.
- ❑ If “SSID based blacklist” is enable ,STA in blacklist is unable to access **WLAN**.
- ❑ If “SSID based white” is enable , only STA in whitelist is able to access **WLAN**.

Username:  MAC: 1234.1234.1234 \* X +Add

Current MAC: 1414.4b63.226a [SSID-based Access Control] 1.Select “SSID-based” mode ,switch to below UI

2.Select SSID

3.Select “blacklist” or “Whitelist” mode

4.Add MAC address, username is optional

5.Save configuration

# Advanced Configurations: Dynamic blacklist

- ❑ The device will identify the attack then add the user in blacklist for some time, then after the time expired the user will leave the blacklist automatically

**Dynamic Blacklist Settings**

Note: With attack detection and dynamic blacklist function enabled, the AP adds the attack source to the dynamic blacklist automatically after identifying the attack. When the effective time runs out, the attack source is removed from the blacklist automatically.

Detection Mode:  Flood Attack Detection  Spoofing Attack Detection  Weak Initialization Vector Detection  DDoS attack

Dynamic Blacklist:  On **Open the function**

Effective Time:  \* (Range:60-86400 seconds) **Configure the effective time**

[Save](#)

[Refresh](#) [Delete Selected Item](#)

	Number	MAC	Effective Time	Action
<input type="checkbox"/>	1	b8e8.560d.1fa4	90	<a href="#">Delete</a>

Show No.:  Total Count:1 [First](#) [Pre](#) **1** [Next](#) [Last](#)  [GO](#)

# Advanced Configurations: Nfpp/Arp

- ❑ This nfpp function can monitor the attack, then will be shown in the log
- ❑ The function of arp can static bind the ip address with mac address and it can support manually bind and remove binding.

The screenshot displays the Ruijie AP eWEB interface for configuration. The left sidebar shows navigation options: Containment, Monitor, Black/white Lists, Network, Dynamic Blacklist, Security, User Isolation, NFPP/ARP, ACL, and System. The main content area is divided into two panes: NFPP and ARP. The ARP pane is active, showing a list of ARP-guard settings with checkboxes and links to lists. A red box highlights the 'Enable' checkboxes for ARP-guard, IP-guard, ICMP-guard, DHCP-guard, DHCPV6-guard, and ND-guard, along with the 'Display NFPP Log' checkbox. Below these settings are 'Save' and 'Restore Default Settings' buttons. The right pane shows the ARP binding configuration, including radio buttons for 'Dynamic Binding->Static Binding', 'Remove static Binding', and 'Manual Binding'. Below this is a table with columns for IP, MAC, Type, and Action. The table contains five entries, with the 'Action' column for the first and third rows highlighted with a red box, showing 'Dynamic Binding->Static Binding'. The bottom of the right pane shows 'Show No: 10' and 'Total Count: 5'.

IP	MAC	Type	Action
192.168.2.3	98e7.44c.15a1	Dynamic Binding	Dynamic Binding->Static Binding
192.168.2.135	5869.6c88.6958	Local ARP Entry	Dynamic Binding->Static Binding
192.168.2.254	1234.5678.9abf	Dynamic Binding	Dynamic Binding->Static Binding
10.10.10.254	5869.6c88.6958	Local ARP Entry	Dynamic Binding->Static Binding
192.168.3.1	5869.6c88.6958	Local ARP Entry	Dynamic Binding->Static Binding

# Advanced Configurations: ACL

- ❑ There is also a acl function in ap, click “add acl” then “add access rule” and config
- ❑ Configure the acl time and then invoke it in the acl.

The image displays two screenshots of the Ruijie AP web interface, illustrating the configuration of an Access Control List (ACL) and its associated time object.

**Left Screenshot: ACL Settings**

- The interface shows the "ACL Settings" tab selected.
- Buttons for "Add ACL", "Delete ACL", and "Add Access Rule" are highlighted with red boxes.
- A table lists ACLs, with "ACL List 1" selected.
- An "Add Access Rule" dialog box is open, showing:
  - ACL Type: Standard ACL (Source-address-based Control)
  - ACL List: 1
  - Access Control: Permit (selected)
  - Time Period: --Please select a time period-- (Time manager)
  - A dropdown menu for "Please select a time period" is open, showing "123" selected and highlighted with a red box.
  - Source IP: Any IP: (For all IP)
  - IP: 192.168.2.1
  - Mask: 255.255.255.255

**Right Screenshot: ACL Time**

- The interface shows the "ACL Time" tab selected.
- Buttons for "Add Time Object" and "Delete Selected Time Object" are visible.
- A table lists time objects, with "No Record Found" displayed.
- An "Add Time Object" dialog box is open, showing:
  - Object Name: 123
  - Time Period: Tuesday 03:04 ~ 13:11
  - Buttons for "Save" and "Cancel" are visible.

# Advanced Configurations : Built-in Web Authentication

- ❑ Go to “Network” ->“Internet Auth” in the left , select “Iportal” in the right.
- ❑ Authentication package : you can utilize default built-in web authentication page or you can customize it . For more information about page customization , see configuration guide accordingly.
- ❑ Authentication mode: This option indicates the place you store user accounts. You can store in remote Radius Server or in local system.
- ❑ In below sample , we utilize default authentication page and store user accounts in local system.

The screenshot displays the Ruijie AP WEB interface for configuring Internet Auth. The left sidebar shows the navigation menu with 'Internet Auth' selected under the 'Network' section. The main content area shows the 'iPortal' configuration page. Three red boxes with white text provide step-by-step instructions:

- 1. Select type of “authentication page”, here we select “default package”**: A red box highlights the 'Authentication Package' dropdown menu, which is set to 'Use local user information only'.
- 2. Select “authentication mode”, here we select “use local user information on the server only”**: A red box highlights the 'Authentication Mode' dropdown menu, which is set to 'Use local user information only'.
- 3. Select SSID which you want to apply web authentication to.**: A red box highlights the 'SSID' dropdown menu, which is currently empty.

Other visible configuration options include 'iportal Server Port' (with a range of 1025-65535 and a default of 8081) and 'AD Push Mode' (set to 'No AD'). 'Save' and 'Clear' buttons are located at the bottom of the configuration area.

# Advanced Configurations : Create local user accounts

- ❑ Click “Local User” , enter Local user management.
- ❑ Click “Add User” , fill in the “Username” and “Password” . Click “Save” when finished.

4.Create Local users

Authentication Package:  Default Package  Custom Package [\[Local User\]](#) [\[Online User\]](#)

**Local User** ×

5.Add user

[+Add User](#) [X Delete Selected User](#) Username-based:  [Search](#)

<input type="checkbox"/>	Username	Action
<input type="checkbox"/>	scott	<a href="#">Edit</a> <a href="#">Delete</a>

Show No.:  Total Count:1 [First](#) [Pre](#) **1** [Next](#) [Last](#)  [GO](#)

**Add User** ×

6.Fill in Username and password , click save when finish

Username:  \*

Password:  \*

[Save](#) [Cancel](#)



# Advanced Configurations : Built-in Web Authentication Verification

- ❑ Before verification , it is recommend that turn off “Encryption Type” cause usually , we apply only one authentication method to a WLAN
- ❑ Connect your STA to SSID, then it succeeds to obtains IP address and DNS.
- ❑ Visit any website ,you will be redirected to authentication page .
- ❑ Input your credentials , pass the authentication and visit Internet



## Advanced Configurations : Extra Features – Login Redirection

- ❑ The setup and clarified basic Built-in Web-Auth (iPortal) must be done.
- ❑ Basic template for redirection page
  - ❑ `online-popup http://domain.name` //The URL will pop up after success login on iPortal.
  - ❑ `login-popup http://domain.name` //The URL will pop up while the iportal landing page loading.
  - ❑ `time-interval xx` //Config iportal login-popup time interval, count by hour, enter 0 for always pop up.
- ❑ Example:

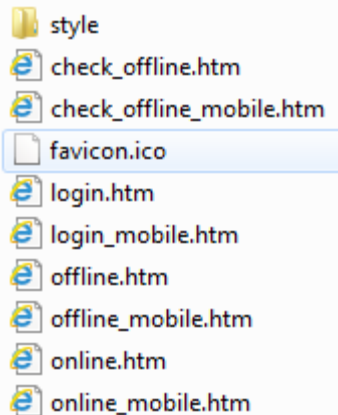
```
web-auth template iportal  
page-suite default  
authentication /  
accounting iportal_account  
time-interval 0  
login-popup http://www.ruijie.com.cn  
online-popup http://www.ruijienetworks.com
```

# Advanced Configurations : Customize Landing Page Template (Copy out from AC)

- ❑ Find the template landing page
- ❑ `dir flash:/portal/zip`

```
xlab-ws6108#dir flash:/portal/zip
Directory of flash:/portal/zip
Number  Properties  Size                Time                Name
-----  -
  1      -rwx        86.7k              Tue Jul 26 21:20:07 2016 gateway.zip
  2      -rwx        91.0k              Tue Jul 26 21:20:07 2016 default.zip
2 files, 0 directories
281,903,104 bytes data total (196,956,160 bytes free)
536870912 bytes flash total (196,956,160 bytes free)
xlab-ws6108#
```

- ❑ Copy out through tftp server
- ❑ `copy flash:/portal/zip/default.zip tftp://192.168.1.1/default.zip`
- ❑ Unzip the default.zip to a new folder.



### Description:

- [login.htm](#) > PC login page
- [login\\_mobile.htm](#) > mobile login page
- [offline.htm](#) > PC offline page
- [offline\\_mobile.htm](#) > mobile offline page
- [online.htm](#) > PC online page
- [online\\_mobile.htm](#) > mobile online page



# Advanced Configurations : Customize Landing Page Modification

- ❑ Right click the login.htm file, then choose Wordpad.exe to edit the basic html coding.
- ❑ Find and match the bottom content and URL link.
- ❑ Browser



- ❑ Wordpad edit

```
<!--底层链接处理-->  
<div class="shadow">  
    <a href="http://www.ruijie.com.cn"  
align="center" target="_black" > &copy 2012 Ruijie Networks Co., Ltd.</a>  
</div>  
</div>  
</div>  
</body>
```

## Advanced Configurations : Customize Landing Page Modification

- ❑ Original content: “&copy; 2012 Ruijie Networks Co., Ltd.”
- ❑ Change to “Welcome to Ruijie Networks.”
- ❑ Original URL: “http://www.ruijie.com.cn”
- ❑ Change URL to http://www.ruijienetworks.com



- ❑ Repeat all the html file with same content modification.
- ❑ Zip those html files into zip file. (Don't include the main folder!)

# Advanced Configurations : Customize Landing Page Upload

- On the AC iPortal page, choose [Custom package] to upload new modified template.

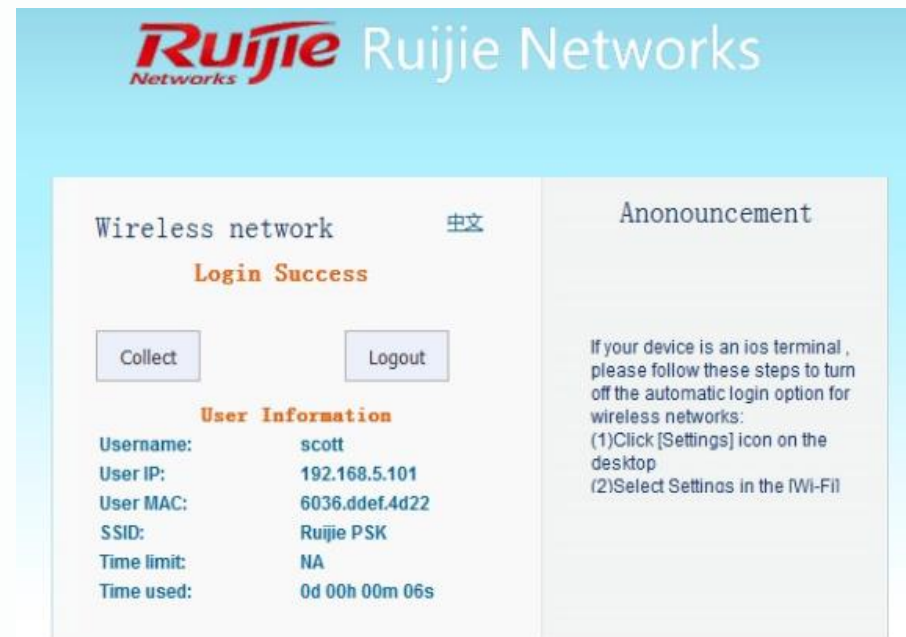
The screenshot displays the Ruijie AC iPortal configuration interface. The left sidebar shows the 'Authentication' menu. The main configuration area is titled 'iportal Authentication' and includes the following settings:

- Authentication Package:  Default Package  Custom Package [\[Local User\]](#) [\[Online User\]](#)
- Authentication Mode: Use local user information onl
- Iportal Server Port: 8081
- SSID: RMA-Test

Buttons for 'file...', 'Upload', and 'Save' are highlighted with red boxes. A file explorer window titled 'Choose File to Upload' is open, showing the file 'template01.zip' selected in the 'Original zip' folder. The 'Open' button in the file explorer is highlighted with a yellow box. Green arrows indicate the flow from the 'file...' button to the file explorer, from the selected file to the 'Upload' button, and from the 'Upload' button to the 'Save' button.

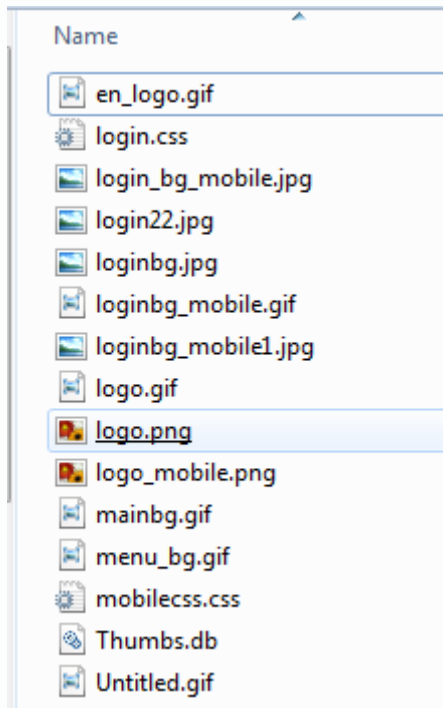
# Advanced Configurations : Customize iPortal Verification

- ❑ Connect your STA to SSID, then it succeeds to obtains IP address and DNS.
- ❑ Visit any website ,you will be redirected to authentication page .
- ❑ Input your credentials , pass the authentication and visit Internet



## Advanced Configurations : Customize iPortal login page

- ❑ Enter folder Style , will get below file list .
- ❑ prepare a gif format picture with dimensions 468 x 105, name it as en\_logo.gif , cover the original one to replace the logo on English PC login page



en_logo.gif	Date modified: 2012/7/9 15:45	Size: 6.70 KB
GIF File	Dimensions: 468 x 105	Date created: 2012/7/9 15:45



en_logo.gif	Date modified: 2015/11/24 10:31	Size: 13.7 KB
GIF File	Dimensions: 468 x 105	Date created: 2015/11/24 10:31

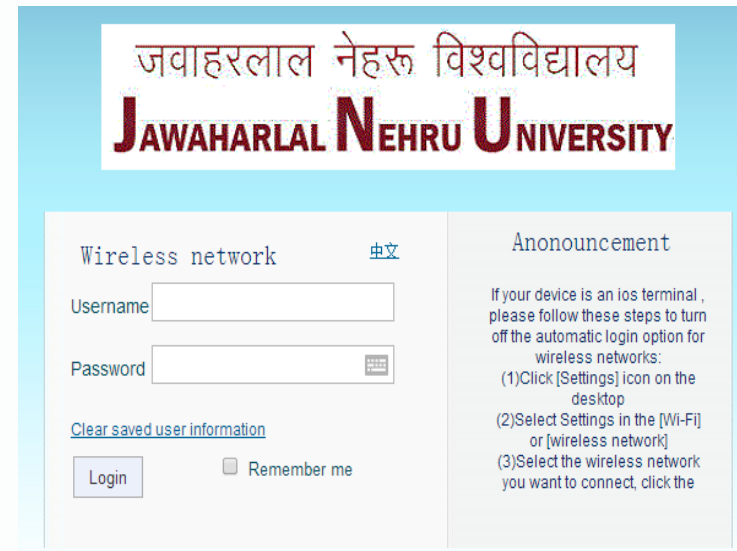


## Advanced Configurations : Customize iPortal login page

- ❑ When finished , open login.htm to verify. The Chinese login page remains the same , now switch to “English”.
- ❑ The logo on English login page has changed.



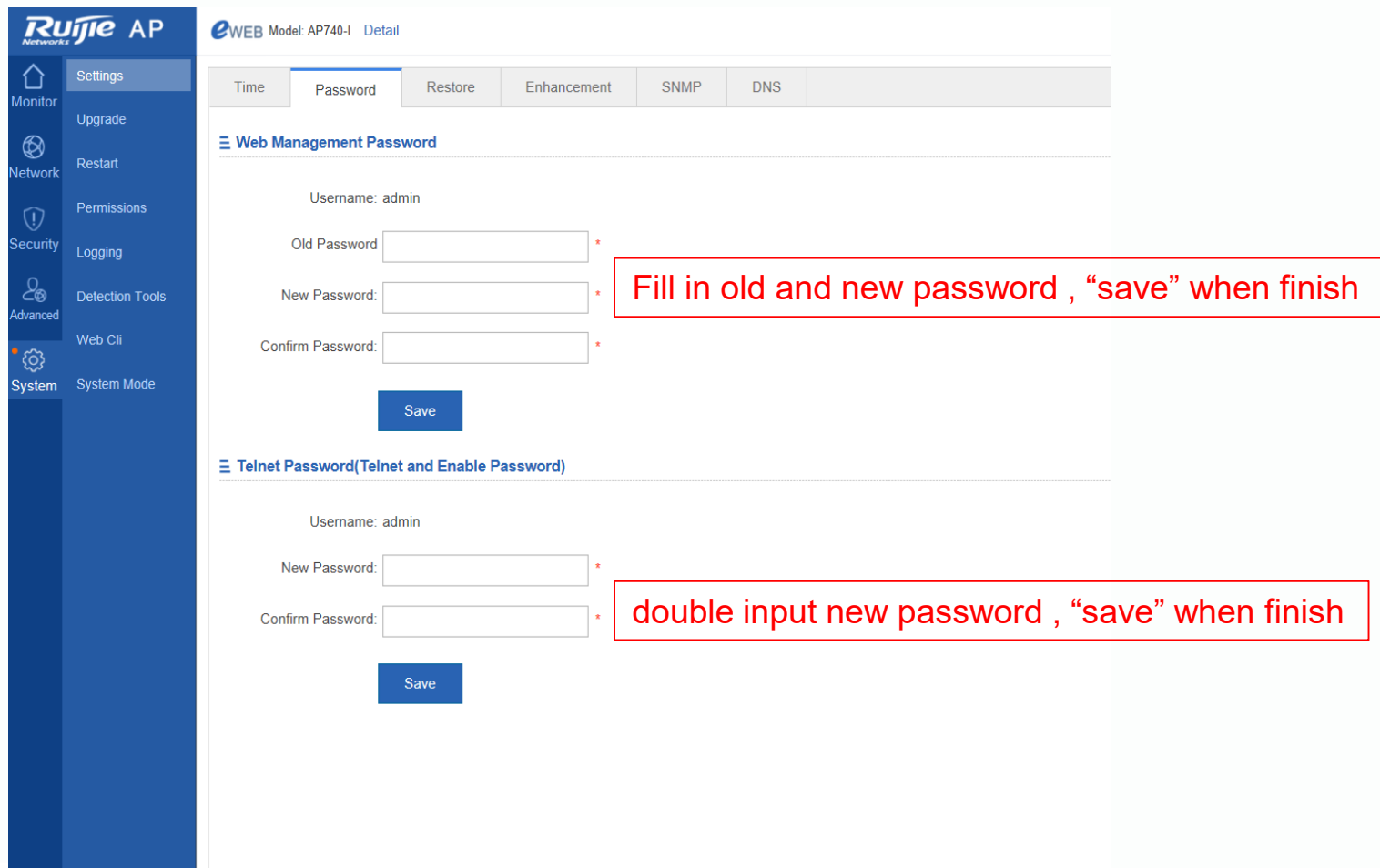
The screenshot shows the Chinese login page for Ruijie Networks. At the top left is the Ruijie Networks logo. The main heading is "无线网络" (Wireless Network) with a link to "English". Below this are input fields for "用户名" (Username) and "密码" (Password). There is a link to "清除已保存的用户信息" (Clear saved user information) and a "记住我" (Remember me) checkbox. A "登录" (Login) button is at the bottom left.



The screenshot shows the English login page for Ruijie Networks, customized for Jawaharlal Nehru University. At the top center is the university's name in Hindi and English: "जवाहरलाल नेहरू विश्वविद्यालय" and "JAWAHARLAL NEHRU UNIVERSITY". Below this is the heading "Wireless network" with a link to "中文". There are input fields for "Username" and "Password". There is a link to "Clear saved user information" and a "Remember me" checkbox. A "Login" button is at the bottom left. On the right side, there is an "Anouncement" section with instructions for iOS devices: "If your device is an ios terminal , please follow these steps to turn off the automatic login option for wireless networks: (1)Click [Settings] icon on the desktop (2)Select Settings in the [Wi-Fi] or [wireless network] (3)Select the wireless network you want to connect, click the".

# Daily maintenance : Modify super administrator Password

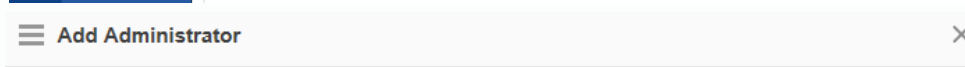
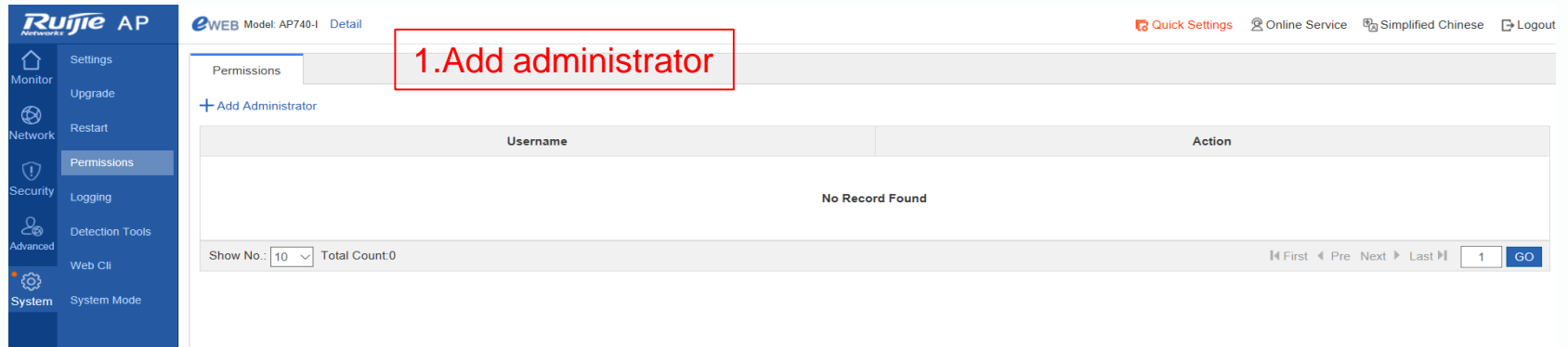
- ❑ Go to “Settings” in the left , select “Password” in the right.
- ❑ You can modify Eweb Login password and Telnet password.



The screenshot displays the Ruijie AP eWEB interface for Model AP740-I. The left sidebar contains navigation menus: Settings (selected), Monitor, Upgrade, Network, Restart, Permissions, Security, Logging, Detection Tools, Web Cli, and System. The main content area is titled 'eWEB Model: AP740-I Detail' and features a 'Password' tab. Under the 'Web Management Password' section, the username is 'admin'. There are three password input fields: 'Old Password', 'New Password', and 'Confirm Password', each with a red asterisk. A red callout box points to these fields with the text: 'Fill in old and new password , “save” when finish'. Below these fields is a blue 'Save' button. The 'Telnet Password(Telnet and Enable Password)' section also shows the username 'admin' and two password input fields: 'New Password' and 'Confirm Password', both with red asterisks. A red callout box points to these fields with the text: 'double input new password , “save” when finish'. A blue 'Save' button is located below these fields.

# Daily maintenance : Create a new administrator

- ❑ Go to “System” ->“Permissions” in the left .
- ❑ You can create new administrator and grant authority accordingly.



Username:  \*

2.Fill in username & password

Password:  \*

Confirm Password:  \*

3.Grant authorization

- Permission: -
- All Pages
  - Favorites
  - Network
  - Security
  - Advanced
  - System
  - Guide

4. Save

Save

Cancel

# Daily maintenance : Configure Log Server

- ❑ Go to “System” -> “Logging” in the left .
- ❑ By default , logs are stored in local buffer . If you would like to save logs permanently , send logs to log server.
- ❑ You need to install a tool on server to receive logs , like Syslog server.

Ruijie AP Networks

eWEB Model: AP740-I Detail

Quick Settings Online Service Simplified Chinese Logout

Logging

Note: Local logs are sent to the corresponding server in order of priority level. Higher the level is, sooner the log is sent. The highest level is level 0 and the lowest is 7.

Server Logging:  ON

1. Enable Server Log

Server IP:

2. Input Log Server IP

Logging Level: Informational(6) ▾

3. Select the log level. E.g you select level 6 , then all logs of level 1 - 6 are sent to log server.

Save

# I Daily maintenance : Upgrade System

- ❑ In this part , it is applicable for upgrade from 11.x version to 11.x version . Not application for upgrade from 10.4 to 11.x version .
- ❑ If 10.4 to 11.x upgrade is required , see Appendix.
- ❑ Visit Ruijie Partner FTP and download correct firmware. For FTP credential application , please get in touch with your local sales or presales.
- ❑ Check current firmware version before upgrade

The screenshot displays the Ruijie AP eWEB interface for a Model AP740-I. The left sidebar contains navigation options: Monitor (Settings, Upgrade), Network (Restart), Security (Permissions, Logging), Advanced (Detection Tools, Web Cli), and System (System Mode). The main content area is titled 'Local Upgrade' and 'Online Upgrade'. A note states: 'Note: Please download the corresponding software version from the official website , and then upgrade the device with the following tips. Tips: 1. Make sure that the software version (main program or Web package) matches the device model. 2. The page may have no response during upgrade. Please do not power off or restart the device until an upgrade succeeded message is displayed.' Below the note, there is a 'Download Software' link and a 'File Name:' input field with 'file...', 'Upgrade', and 'Cancel' buttons. A red box highlights the text '1. Check current software version.'

# I Daily maintenance : Upload firmware

- ❑ Go to “System” -> “Logging” in the left , select “Local Upgrade” in the right
- ❑ Browse and upload firmware, then click “Upgrade”. System starts to verify firmware bin file and will restart automatically
- ❑ **Do NOT POWER OFF AP or do any other operation during upgrade is in progress**

The screenshot displays the Ruijie EWEB Network Management interface for an AP320-I model. The left sidebar shows the navigation menu with 'System' selected and 'Logging' highlighted. The main content area is titled 'Local Upgrade' and includes a 'Note' and 'Tips' section. A red box highlights the text '2. Browse and upload firmware' above the 'File Name' input field, which contains the filename '5\_S1N2-02\_02192710\_install.bin'. Below the input field are 'Browse...', 'Upgrade', and 'Cancel' buttons. A progress bar at the bottom indicates that the upgrade is 41% complete.

# Daily maintenance : Verification

- Go back to “Home” dashboard , verify current firmware version.

The screenshot displays the Ruijie AP eWEB dashboard for Model AP740-I. The interface includes a left sidebar with navigation options: Dashboard, Monitor, User Info, Network, Security, Advanced, and System. The main content area shows a dashboard with a notification: "1. For security purposes, it is recommended you change the default system password. [Change Password](#)". Below this, system statistics are presented: CPU at 1.20%, Memory at 73.2%, and 0 Online Users. System time information includes Current Time (1970-01-01 01:17:13), Running Time (0 d 01 h 17 min 14 s), Model (AP740-I), Version (AP\_RGOS 11.1(5)B9P5, Release(04180410)), MAC (5869.6c88.6957), and Device SN (G1LW30T000769). A "Traffic Tendency" chart shows RX and TX traffic levels over time, with the current time being 01:17:15. At the bottom, there are sections for "Top 10 Traffics" and "RSSI Distribution".

**4. Verify current firmware version.**

# Daily maintenance : Import/Export Current Config

- ❑ Go to “System” ->“Setting” in the left , select “Restore” in the right
- ❑ Export Current configuration files to backup.
- ❑ Import saved configuration files to restore.

The screenshot displays the Ruijie AP eWEB interface. The top navigation bar includes the Ruijie AP logo, the model 'eWEB Model: AP740-I', and utility links for 'Quick Settings', 'Online Service', 'Simplified Chinese', and 'Logout'. A left sidebar menu lists various system settings categories: Settings, Monitor, Upgrade, Network, Restart, Permissions, Security, Logging, Detection Tools, Advanced, Web Cli, System, and System Mode. The main content area is titled 'Import/Export Configuration' and features a tabbed interface with 'Restore' selected. A note states: 'Please don't close or update the page during import, or import will fail. If you want to apply the new configuration, please restart the device on this page, or the configuration will not take effect.' Below this, there is a 'File Name:' input field followed by 'file...', 'Import', and 'Export Current Configuration' buttons. A red-bordered box highlights the text 'Import or Export configuration file'. Further down, the 'Restore Factory Settings' section includes a note: 'After the device is reset to the factory default settings, all configurations will be removed. Please Export Current Configuration before resetting the device.' and a 'Restore Factory Settings' button. At the bottom, there is a 'Display Current Configuration' section with an empty text area.



# Daily maintenance : Restore Factory Setting

- ❑ Go to “System” ->“Setting” in the left , select “Restore” in the right
- ❑ Restore factory settings , all configurations are removed and AP resume to Fit mode.

The screenshot displays the Ruijie AP web management interface. The top navigation bar includes the Ruijie AP logo, the model 'eWEB Model: AP740-I', and utility links for 'Quick Settings', 'Online Service', 'Simplified Chinese', and 'Logout'. A left sidebar contains a menu with categories like Monitor, Network, Security, Advanced, and System. The main content area has a sub-menu with 'Time', 'Password', 'Restore', 'Enhancement', 'SNMP', and 'DNS'. The 'Restore' sub-menu is expanded to show 'Import/Export Configuration' and 'Restore Factory Settings'. Under 'Restore Factory Settings', there is a note and a button labeled 'Restore Factory Settings' which is highlighted with a red box and the text 'Restore default setting'. Below this is a section for 'Display Current Configuration' with an empty text area.

## I Appendix : Upgrade from 10.4 to 11.x

- ❑ The software version RGOS 11.x is released in late 2014 , compare with old 10.4 version , it has better performance and more features .
- ❑ Nearly all the wireless controller and AP support upgrade to 11.x software version.

In this part , you will know how to upgrade FAT AP from 10.4 to 11.x software version with TFTP Server via CLI .

- ❑ **Step 1** Log on to CLI via console / telnet , verify that FAT AP Current version is 10.4.

```
Ruijie#show version
```

- ❑ **Step 2** Setup TFTP Server, prepare firmware. You need to upgrade twice. In 1<sup>st</sup> upgrade , FAT AP upgrades from 10.4 to 11.x interim version. In 2<sup>nd</sup> upgrade , FAT AP upgrades from 11.x interim to 11.x latest version.

## I Appendix : Upgrade from 10.4 to 11.x

- ❑ **Step 3** Start to upgrade .Remember to save and backup configuration file before upgrade.

1<sup>st</sup> upgrade :

```
Ruijie#copy tftp://192.168.1.100/AP_RGOS11.1(2)B1_AP320_v1.0_upgrade.bin  
flash:rgos.bin  
Ruijie#reload
```

2<sup>nd</sup> upgrade :

```
Ruijie#upgrade download
```

```
tftp://192.168.1.100/AP_RGOS11.1(2)B1_AP320_01240204_install.bin
```

```
Upgrade the device must be auto-reset after finish, are you sure upgrading  
now?[Y/n]y
```

- ❑ **Step 4** Verification

```
Ruijie#show version
```

THANKS

**Ruijie**  
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