Ruijie Reyee RG-EW Series Routers

Web-Based Configuration Guide

Copyright Statement

Exemption Statement

Preface

Thank you for using our products.

Audience

This manual is intended for:

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

Obtaining Technical Assistance

- Ruijie Networks Website: https://www.ruijienetworks.com/
- Technical Support Website: https://ruijienetworks.com/support
- Case Portal: https://caseportal.ruijienetworks.com
- Community: https://community.ruijienetworks.com
- Technical Support Email: service_rj@ruijienetworks.com
- Skype: service_rj@ruijienetworks.com

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.

Conventions

This manual uses the following conventions:

Convention	Description
boldface font	Commands, command options, and keywords are in **boldface**.
italic font	Arguments for which you supply values are in *italics*.
[ ]	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 or configures devices. You can access eWeb via browsers such as Google Chrome.

Web-based management involves a Web server and a 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, **ARP List**).

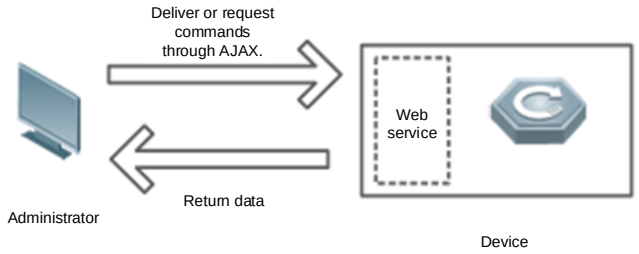
2 Configuration Guide

2.1 Preparation

Scenario

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

Figure 2-1-1 Data Exchange Principle



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

↘ 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, IE10.0 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 LAN network as the device IP address, such as 192.168.110.X. The subnet mask is 255.255.255.0. The default gateway is device management address 192.168.110.1. Alternatively, you can set the IP assignment mode to **Obtain an IP address automatically** or enter **ruiyi.cn** into the address bar of the browser to access eWeb.

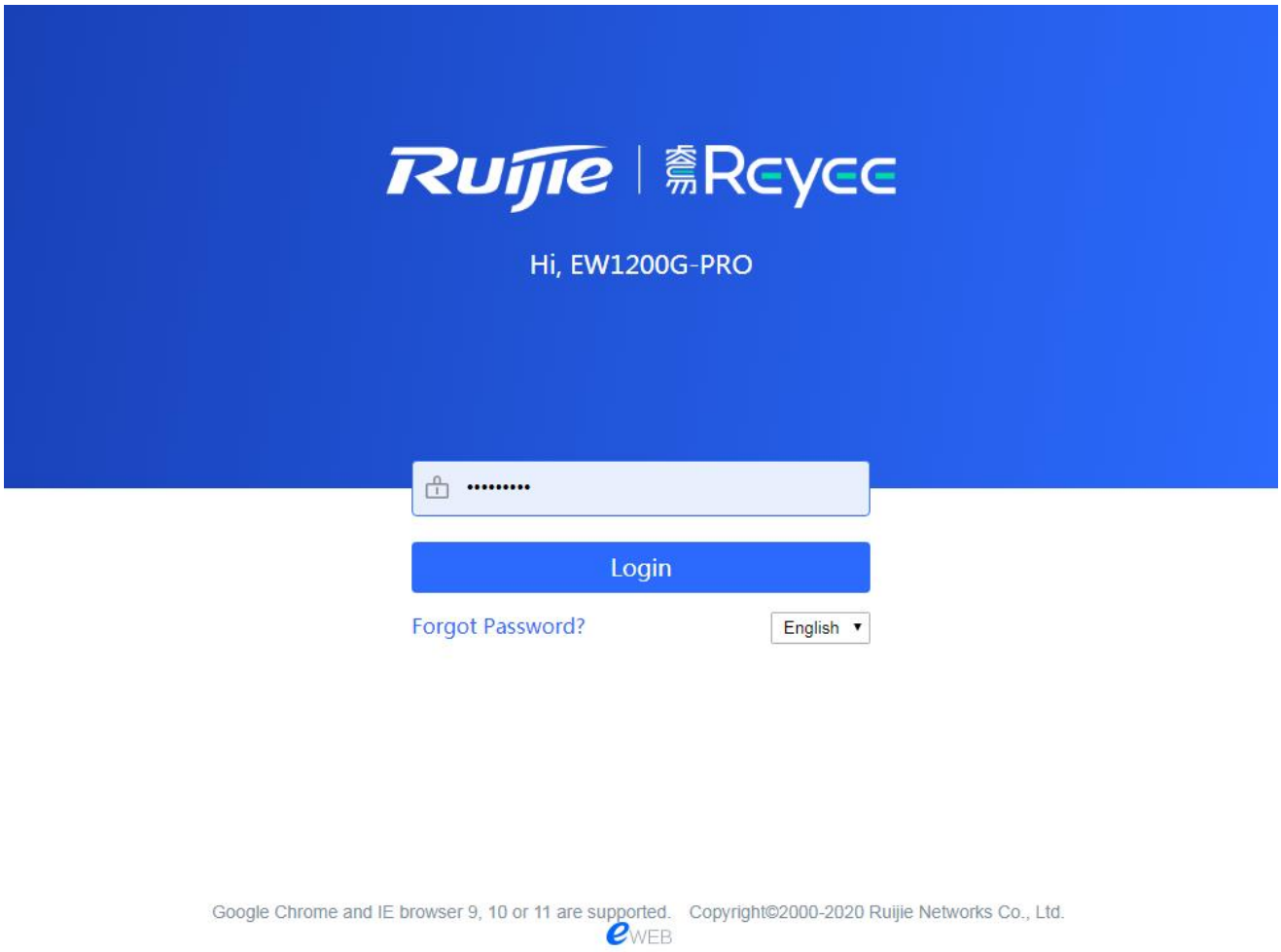
Server requirements:

- The device is enabled with Web service (enabled by default).

- The device is configured with a management IP address (Default: 192.168.110.1).

To log into the eWeb management system, open the Google Chrome browser, and enter http://ruiyi.cn into the address bar, and press **Enter**.

Figure 2-1-2 Login Page



Enter the password and click **Login**.

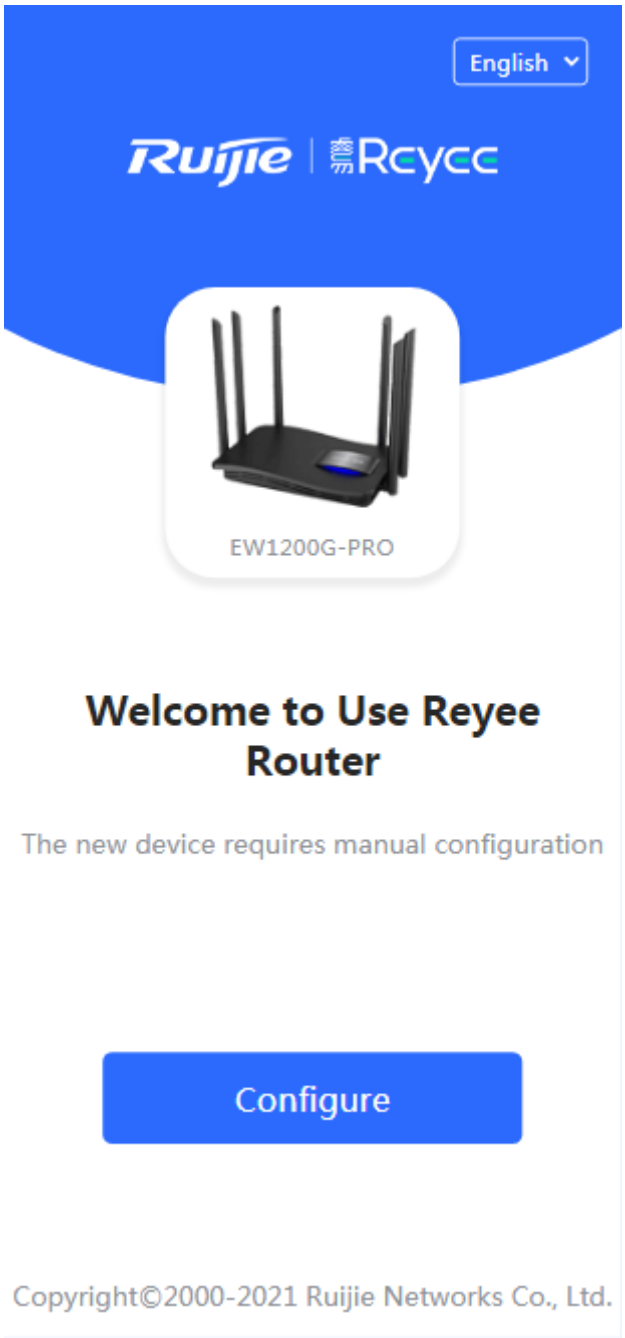
2.2 Wizard

You will enter the **Wizard** page without login at initial setup.

2.2.1 Welcome Page

The welcome page will appear when you configure the device for the first time.

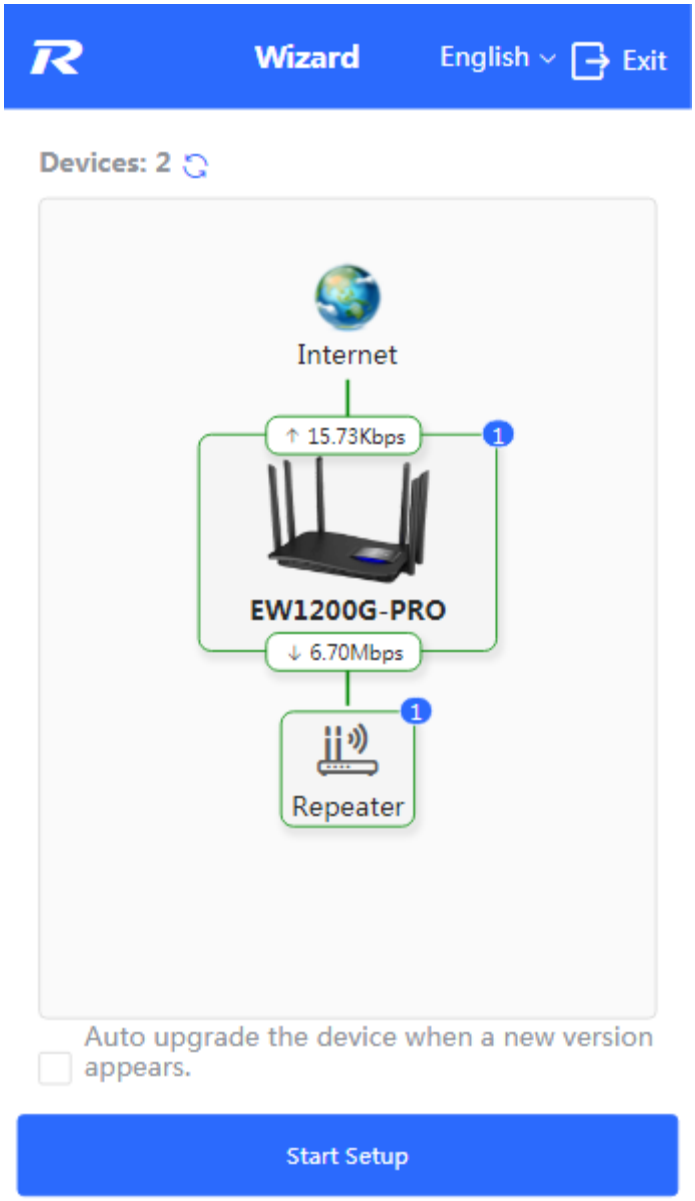
Figure 2-2-1 Welcome Page



2.2.2 Network Status

The page displays device count.

Figure 2-2-2 Network Status



Network Status

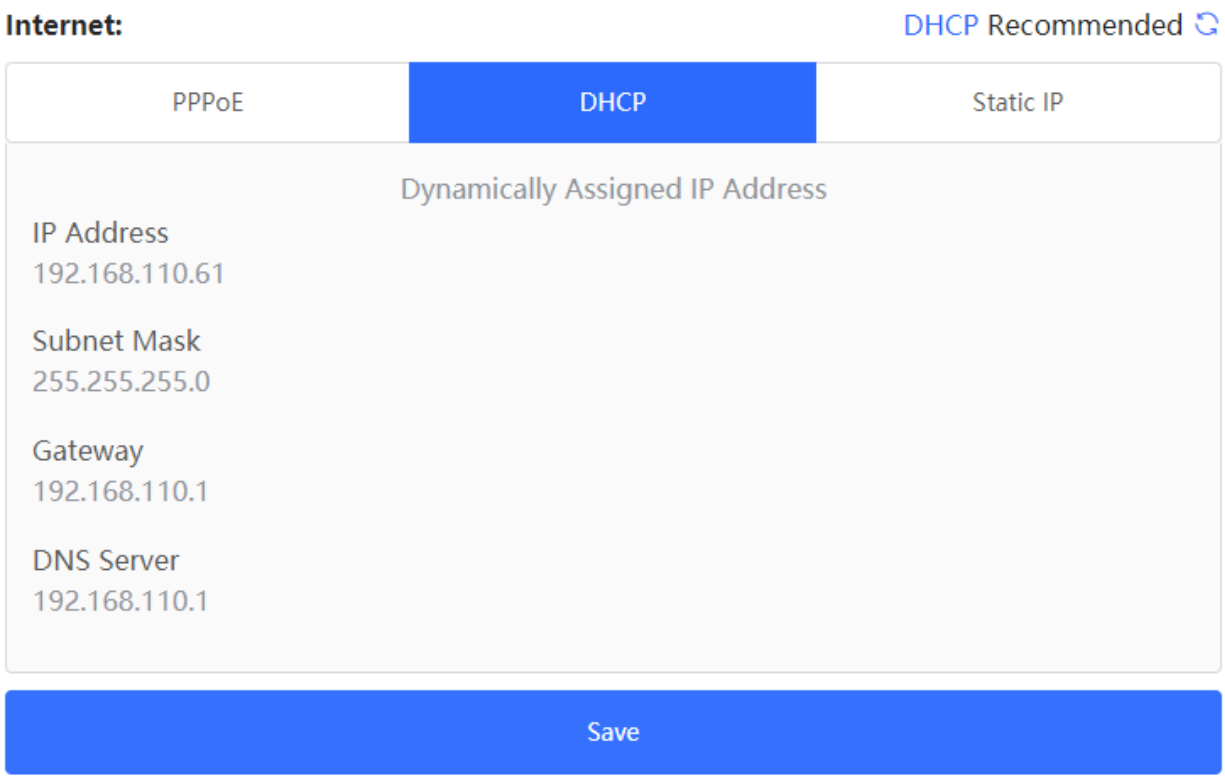
If the device fails to access the network, click **Start Setup**, and you will go to the Internet page.

If the device has accessed the network, click **Start Setup**, and you will go to the WiFi Settings page.

2.2.3 Internet

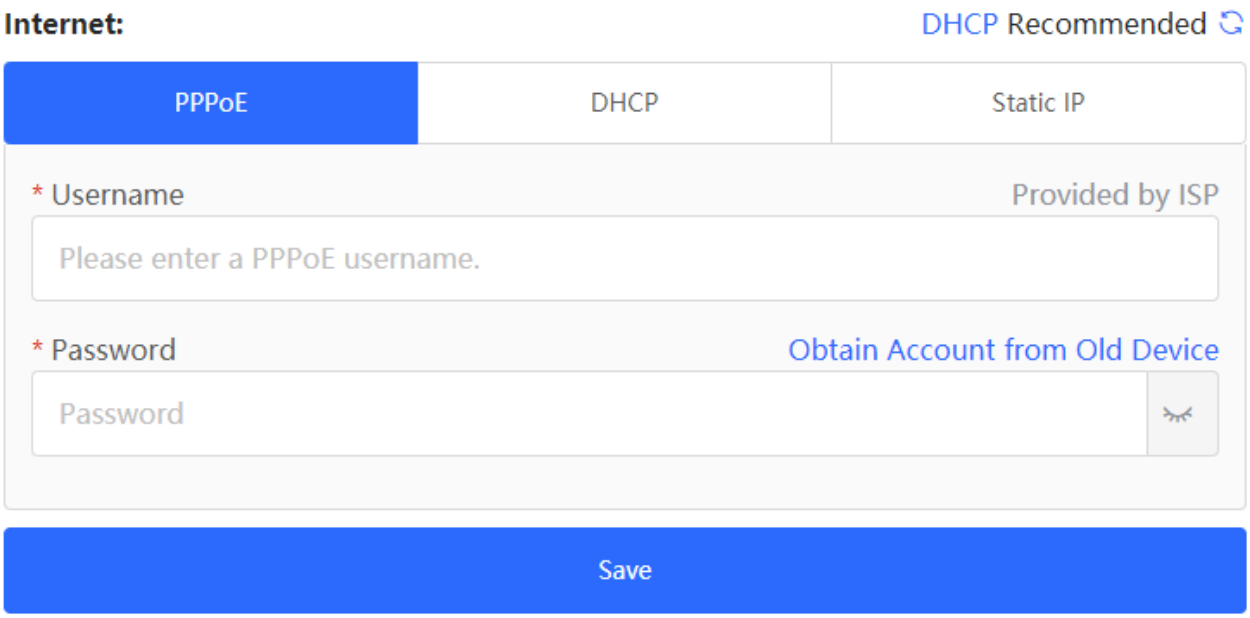
If the device fails to access the Internet, the system will check IP assignment automatically. It is recommended to select DHCP.

Figure 2-2-3 DHCP



If you select PPPoE, please enter the PPPoE account provided by the ISP.

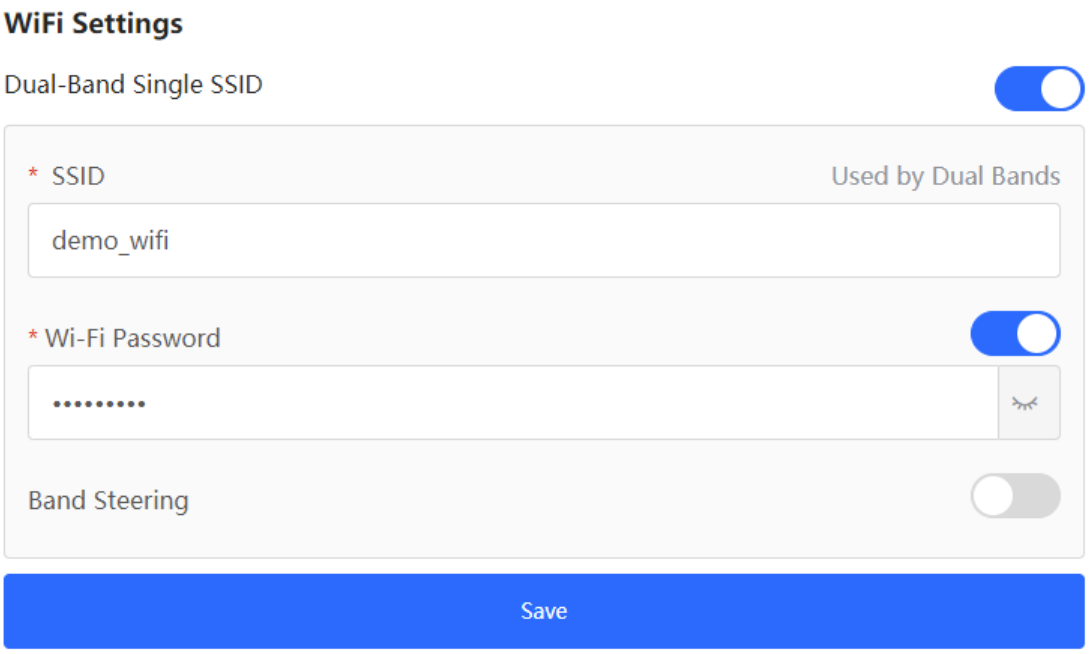
Figure 2-2-4 PPPoE



2.2.4 WiFi Settings

Configure the SSID, WiFi password and management password and Click **Deliver Setup**.

Figure 2-2-5 WiFi Settings



2.2.5 Finish

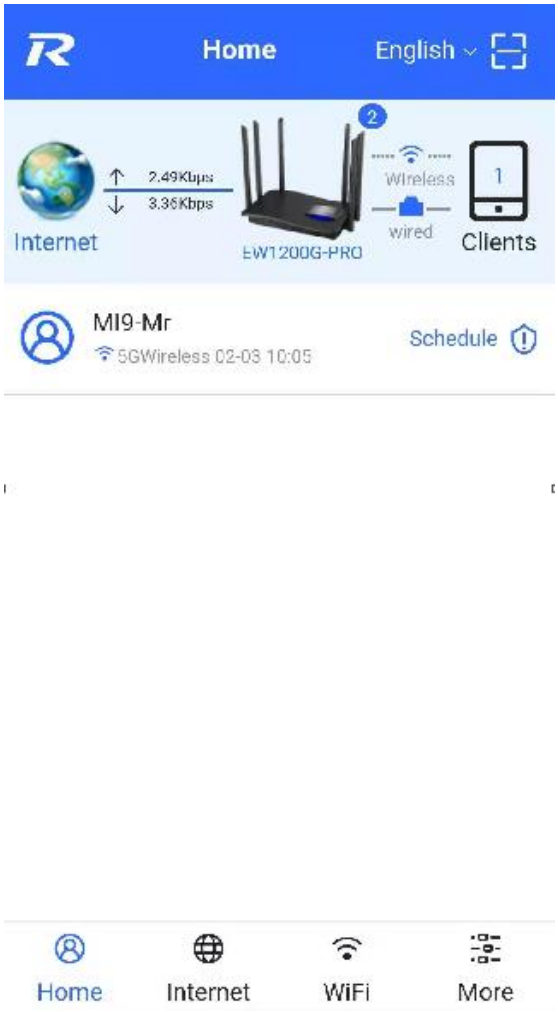
After the configuration is delivered, click **Finish** to enter the homepage.

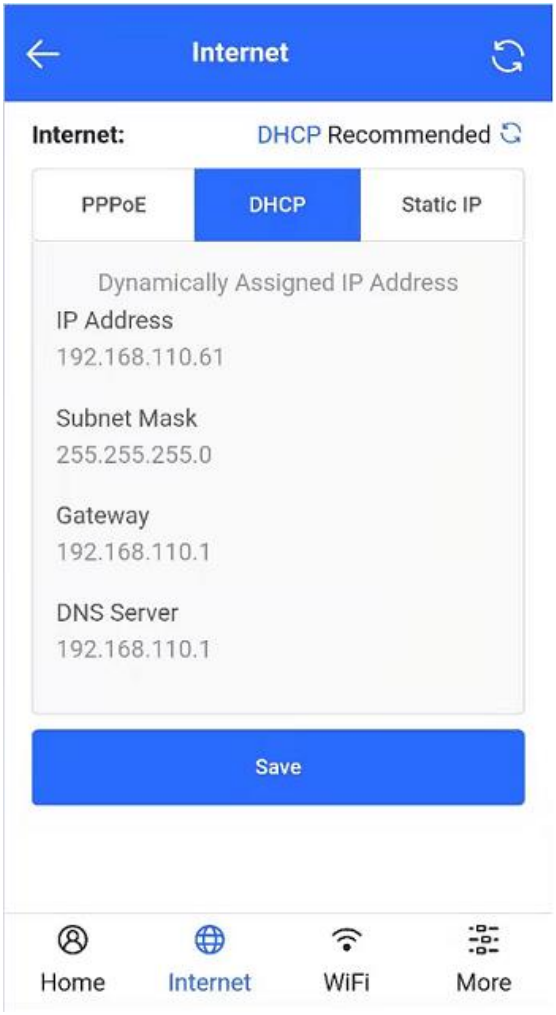
2.3 GUI

2.3.1 Phone-Based GUI

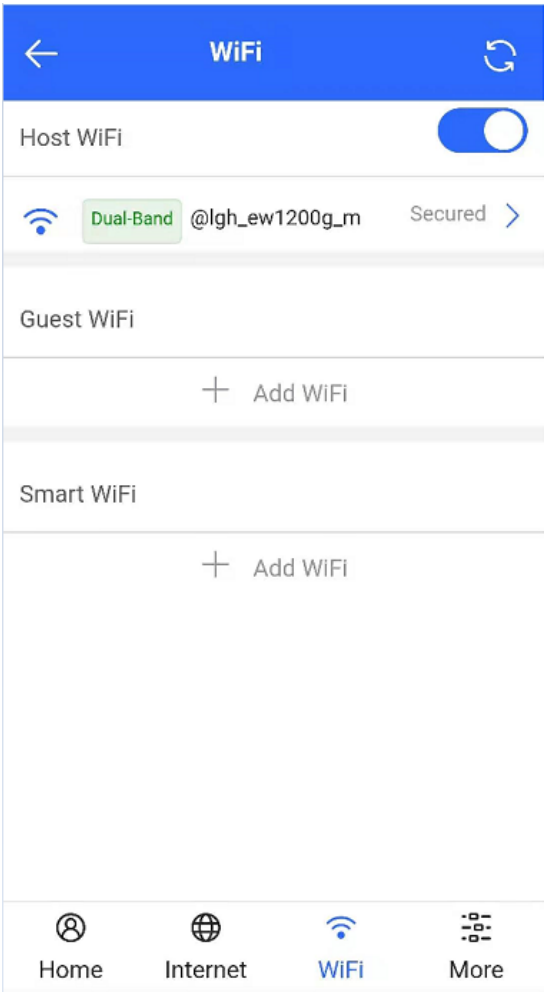
The system switches between the phone-based GUI and PC-based GUI according to the screen width and browser type. The phone-based GUI is more concise.

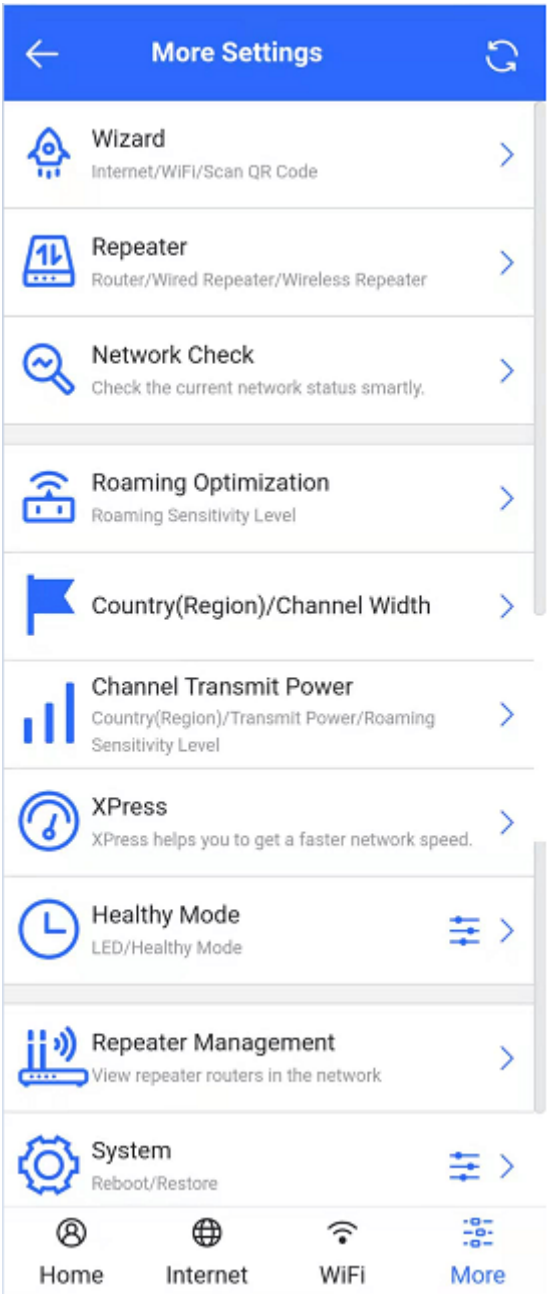
Figure 2-3-1 Phone-Based GUI


Home
English
2.49Kbps
3.36Kbps
Internet
2
EW1200G-PRO
Wireless
wired
1
Clients
MI9-Mr
5GWireless 02-03 10:05
Schedule
Home
Internet
WiFi
More


Internet
Internet:
DHCP Recommended
PPPoE
DHCP
Static IP
Dynamically Assigned IP Address
IP Address
192.168.110.61
Subnet Mask
255.255.255.0
Gateway
192.168.110.1
DNS Server
192.168.110.1
Save
Home
Internet
WiFi
More

Configuration Guide

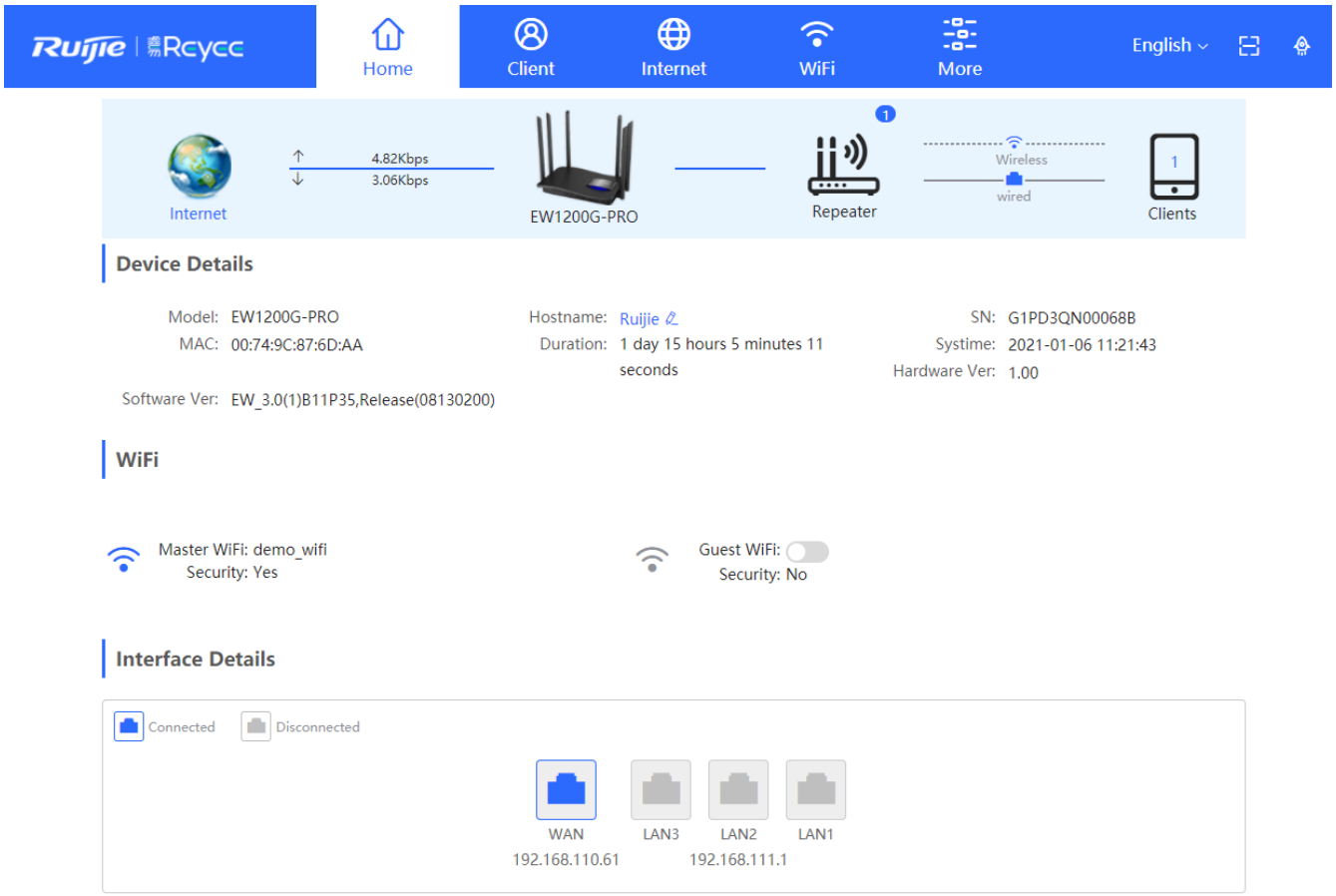




2.3.2 PC-Based GUI

Click **Pro** in the upper right corner of phone-based GUI to switch over to the PC-based GUI. The PC-based GUI provides more configuration items. For details, see eWeb Configuration.

Figure 2-3-2 PC-Based GUI


Ruijie | Reyee
Home
Client
Internet
WiFi
More
English
Internet
4.82Kbps
3.06Kbps
EW1200G-PRO
Repeater
Wireless
wired
Clients
Device Details
Model: EW1200G-PRO
MAC: 00:74:9C:87:6D:AA
Hostname: Ruijie
Duration: 1 day 15 hours 5 minutes 11 seconds
SN: G1PD3QN00068B
Systime: 2021-01-06 11:21:43
Hardware Ver: 1.00
Software Ver: EW_3.0(1)B11P35,Release(08130200)
WiFi
Master WiFi: demo_wifi
Security: Yes
Guest WiFi:
Security: No
Interface Details
Connected
Disconnected
WAN
LAN3
LAN2
LAN1
192.168.110.61
192.168.111.1

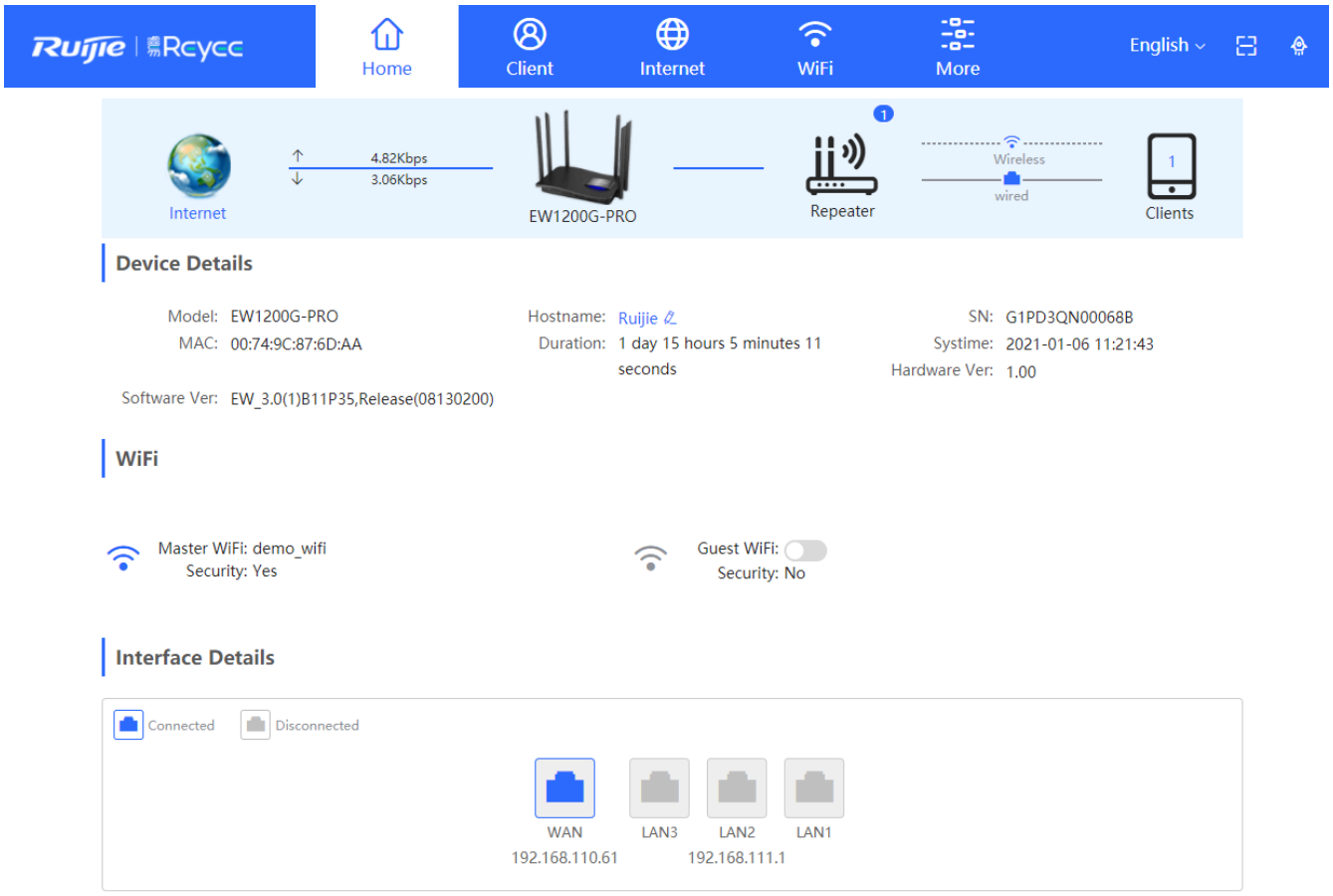
3 eWeb Configuration

This chapter introduces the features on the PC-based GUI.

3.1 Overview

The **Overview** page displays the device details, WiFi and interface details.

Figure 3-1 Overview



3.2 Clients

The **Clients** module allows you to view online clients and manage blocked time.

Figure 3-2-1 Online Clients

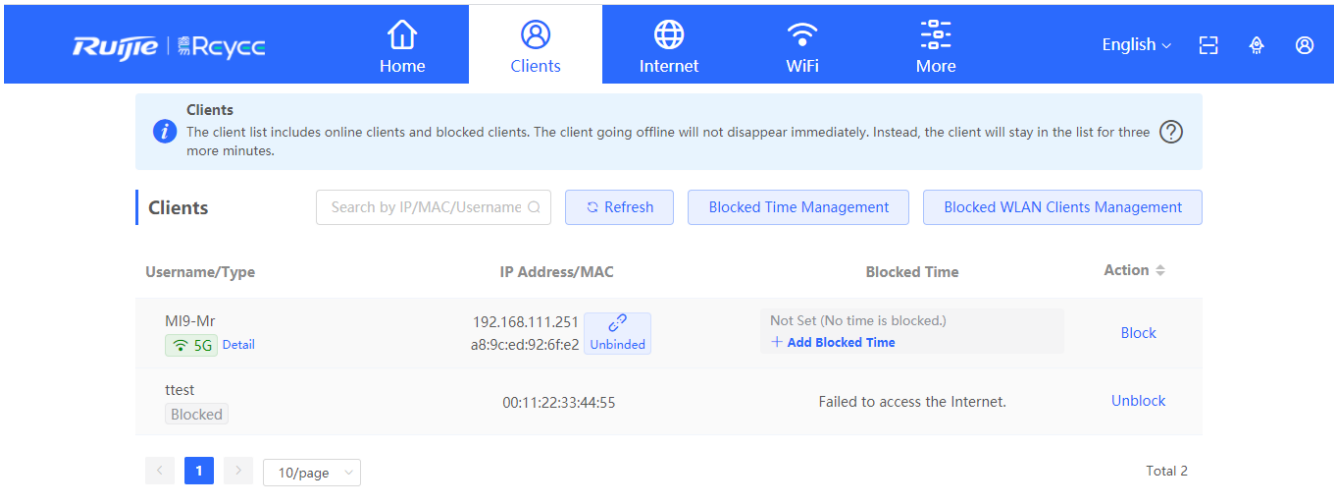


Figure 3-2-2 Blocked Time Management

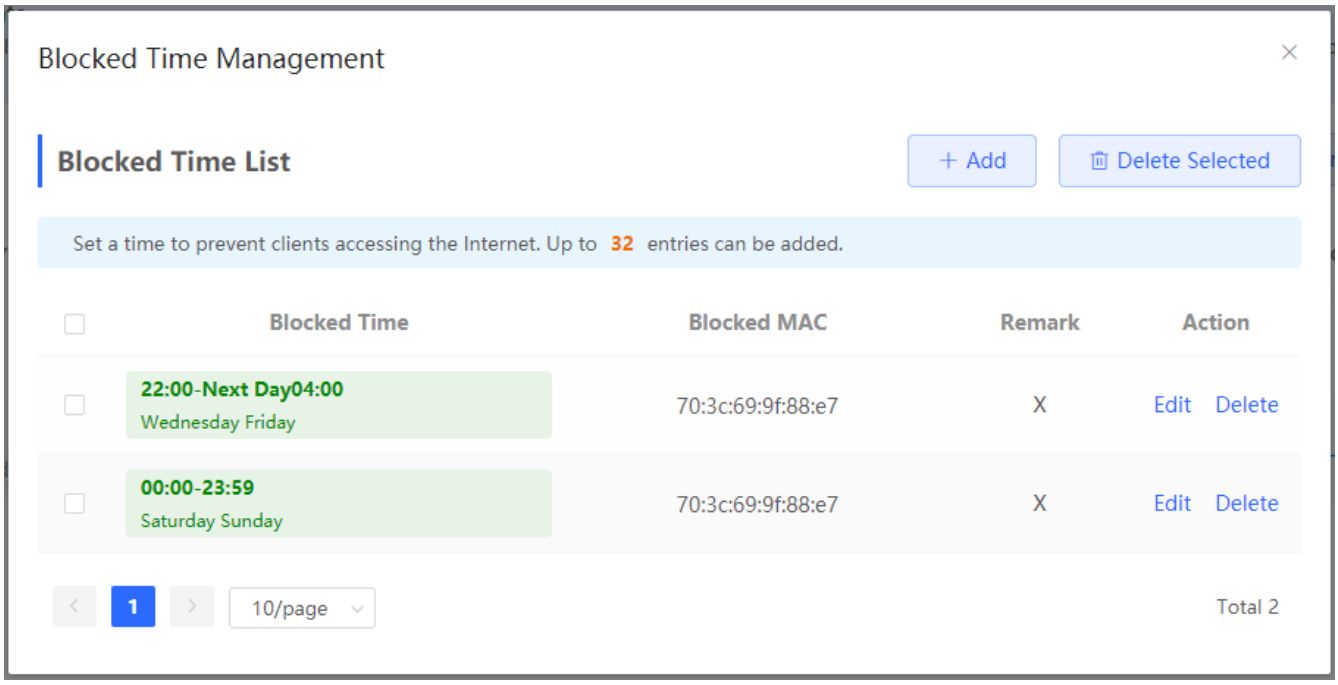
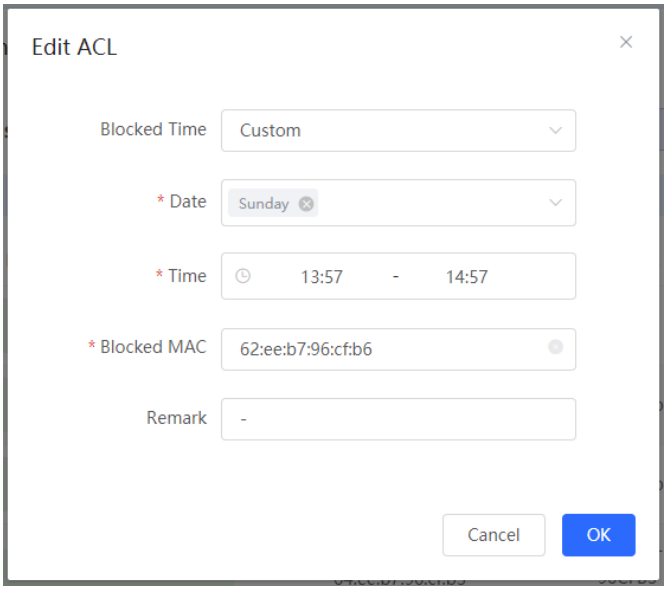


Figure 3-2-3 Add Rule



You can convert a dynamic IP address to a static IP address by clicking **Unbinded**. In the displayed dialog box, configure settings and click **OK**.

Figure 3-2-4 Convert Dynamic IP Address to Static IP Address

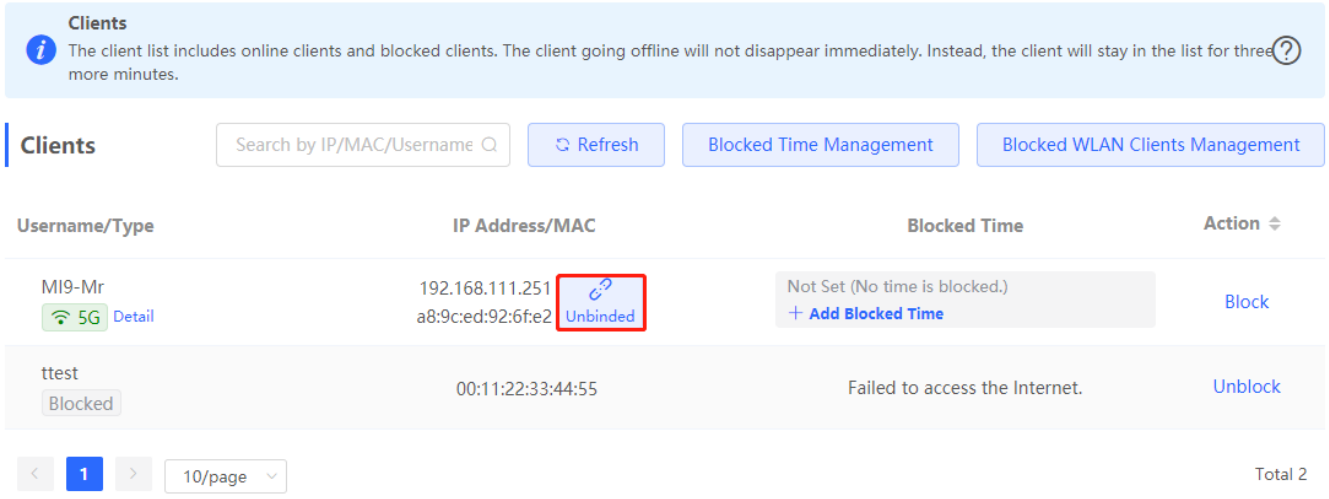
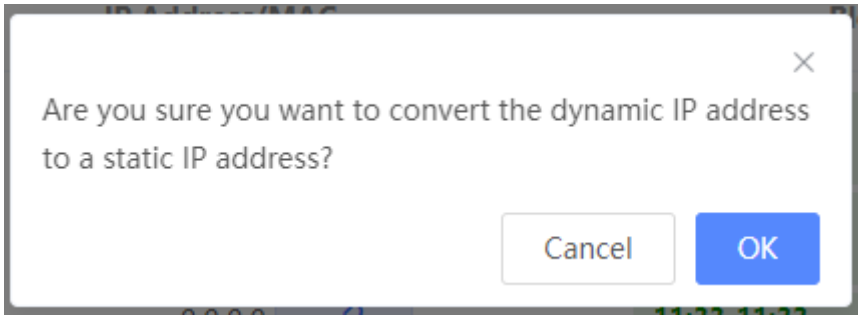


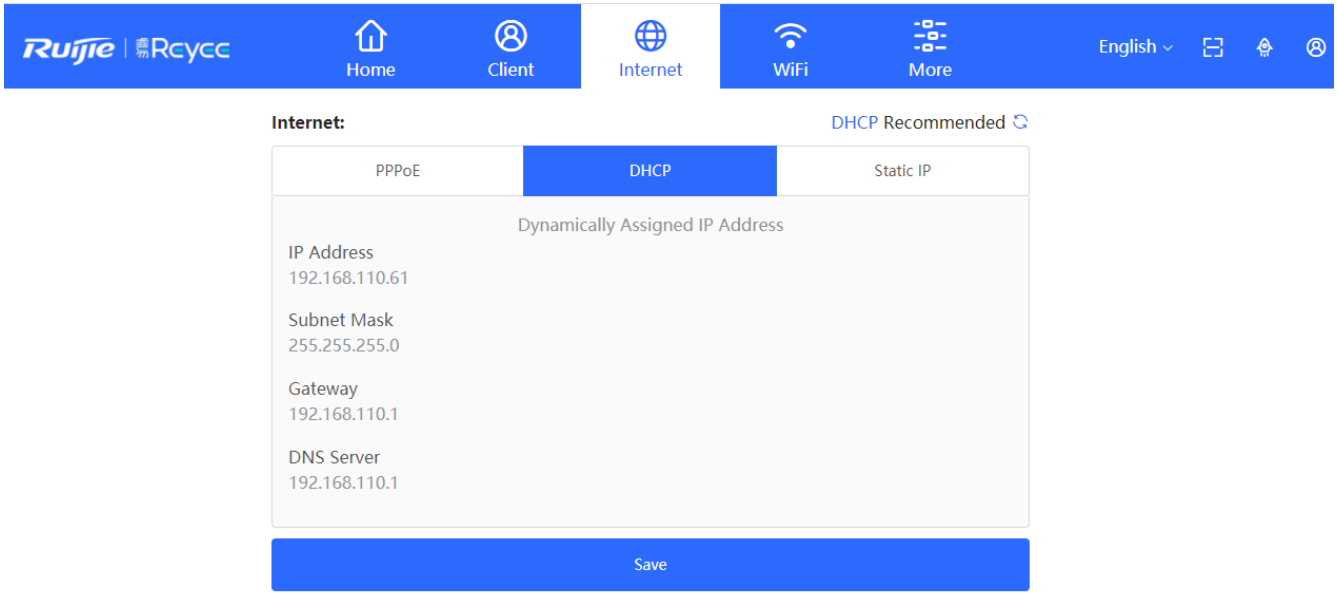
Figure 3-2-5 Confirm Conversion



3.3 Internet

The **Internet** module allows you to select an IP assignment mode.

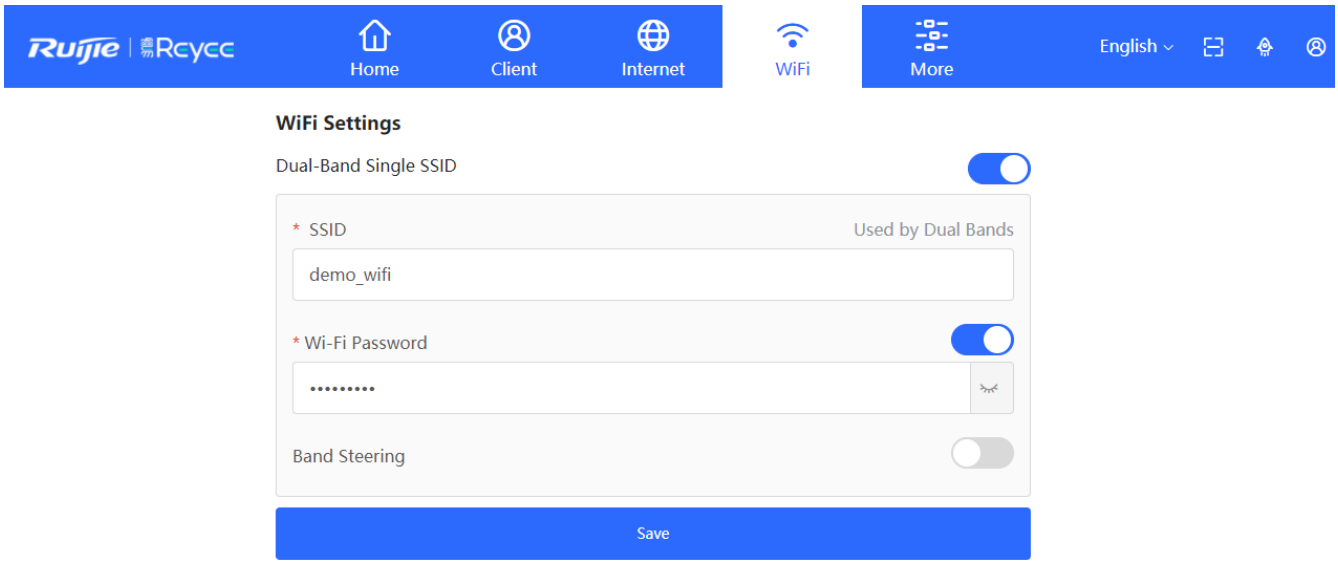
Figure 3-3-1 Internet



3.4 WiFi

The **WiFi** module allows you to configure **WiFi** settings.

Figure 3-4-1 WiFi Settings



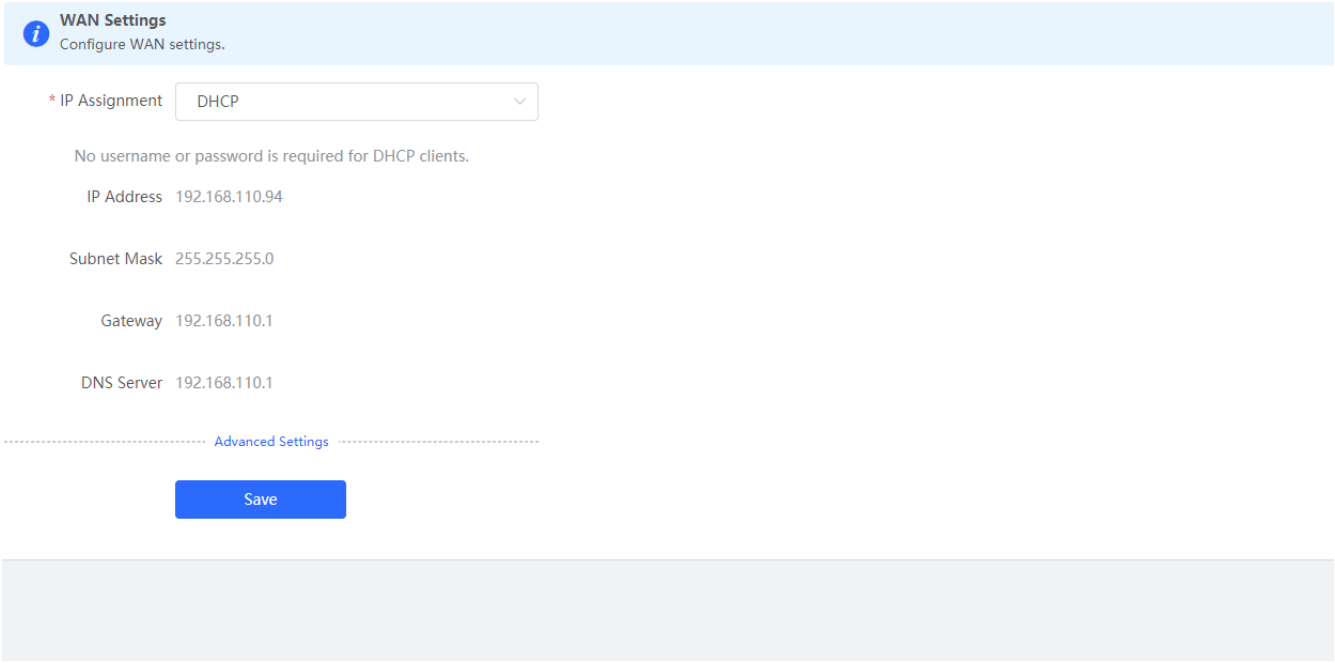
3.5 More

3.5.1 Basics

3.5.1.1 WAN

The **WAN** module allows you to configure WAN settings. There are three IP assignment modes available: **Static IP Address**, **DHCP** and **PPPoE**.

Figure 3-5-1 WAN Settings



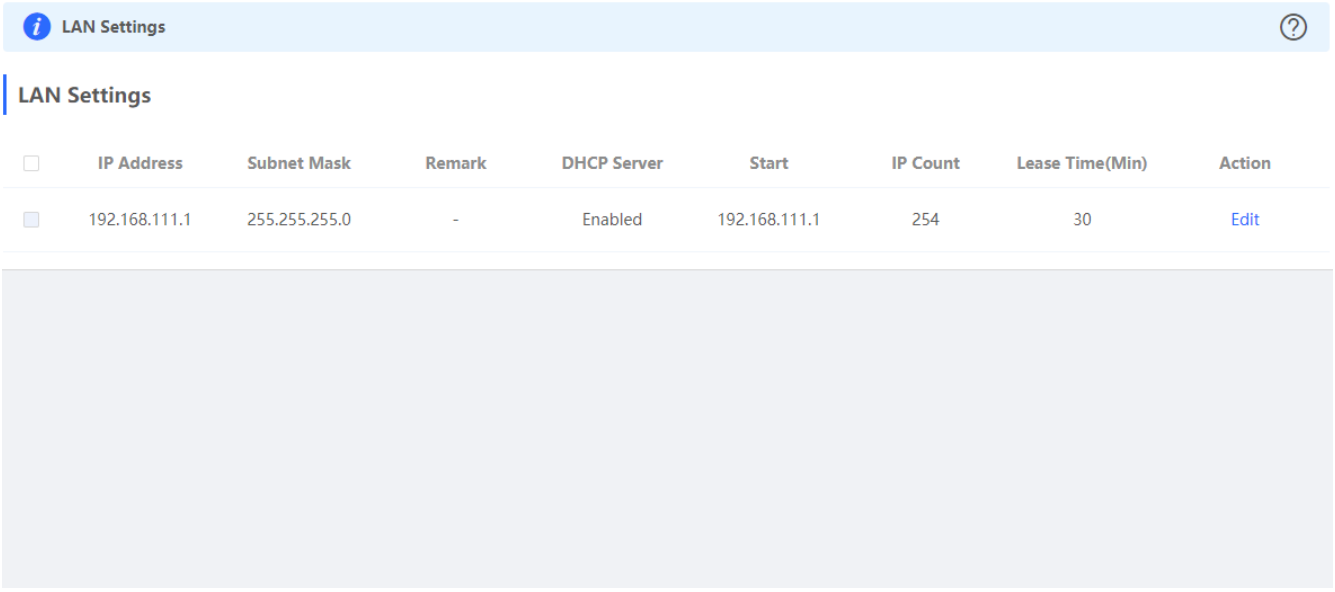
3.5.1.2 LAN

The **LAN** module contains **LAN Settings**, **DHCP Clients**, **Static IP Addresses** and **DNS Proxy**.

3.5.1.2.1 LAN Settings

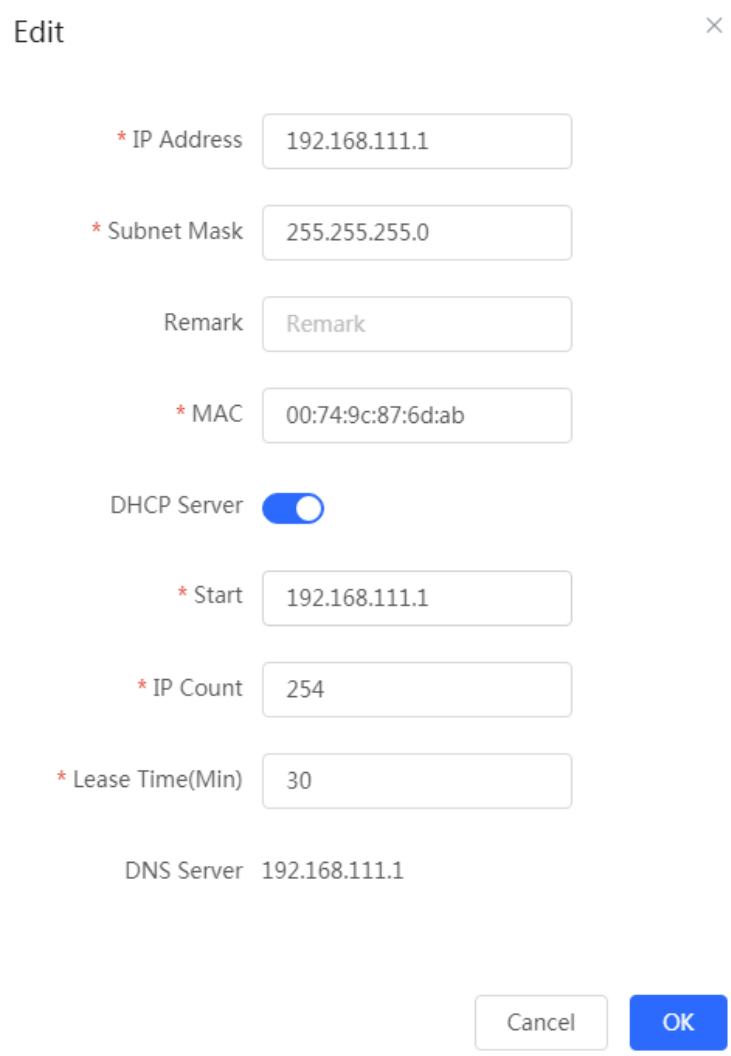
The **LAN** module allows you to set the IP address of the LAN port and DHCP status.

Figure 3-5-2 LAN Settings



Click **Edit** in the **Action** column to add a VLAN. In the displayed dialog box, configure settings and click **OK**.

Figure 3-5-3 Edit

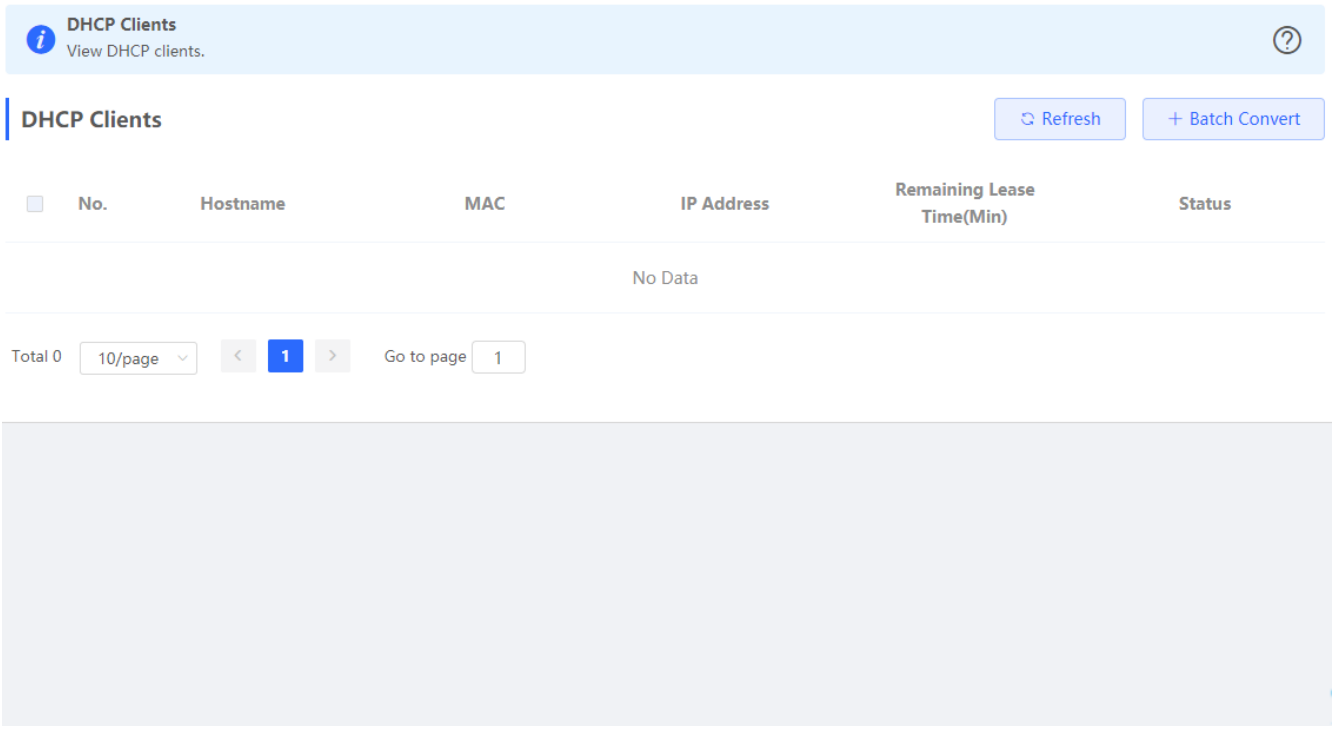


You can click in the upper right corner to see description about each configuration item.

3.5.1.2.2 DHCP Clients

The **DHCP Clients** page displays DHCP clients.

Figure 3-5-4 DHCP Clients

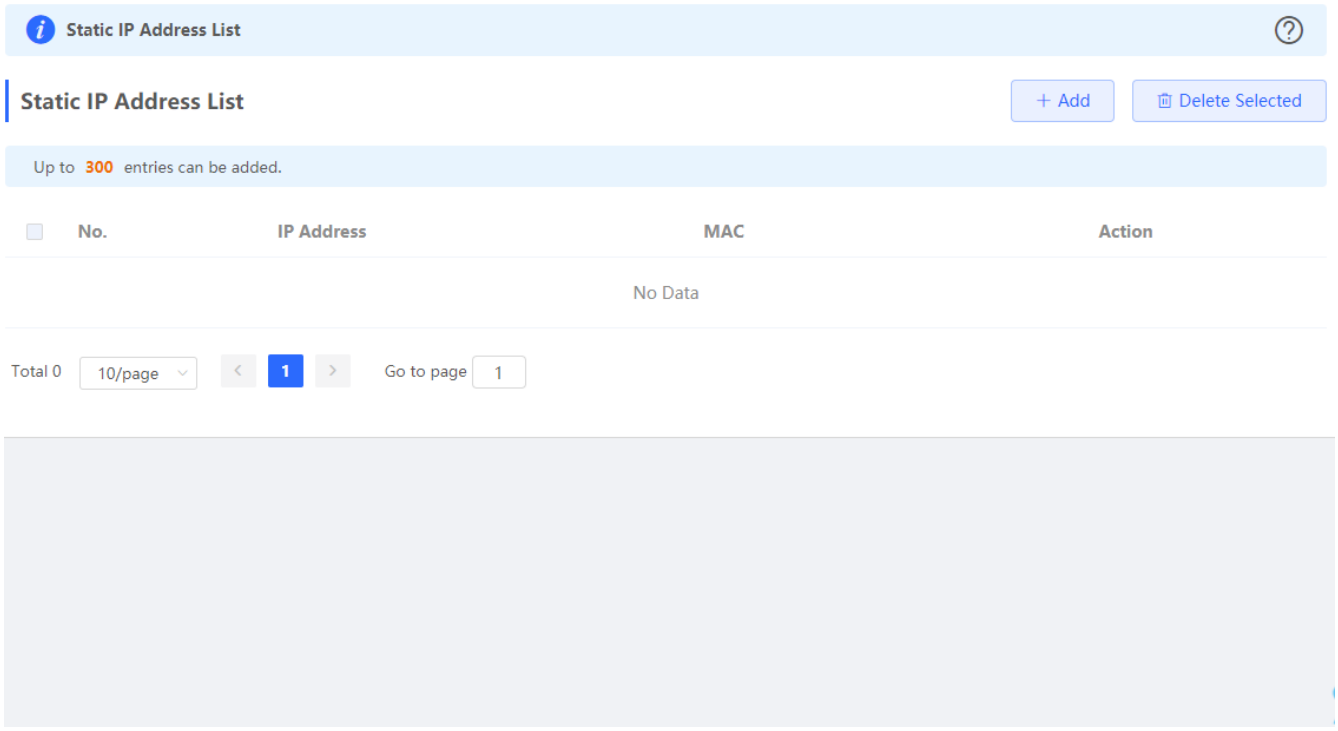


Click **Convert to Static IP** in the **Action** column to convert a DHCP-assigned IP address to a static IP address. Alternatively, select DHCP-assigned IP addresses and click **Batch Convert** to convert more than one IP address.

3.5.1.2.3 Static IP Addresses

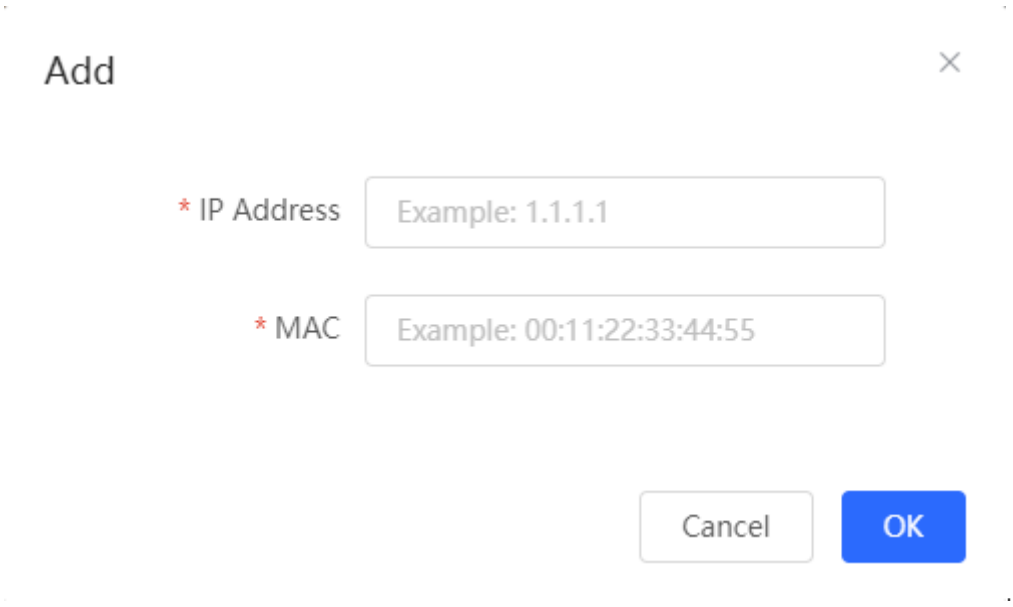
The **Static IP Addresses** module allows you to add, delete and edit static IP addresses.

Figure 3-5-5 Static IP Addresses



Click **Add** to add a static IP address manually. In the displayed dialog box, configure settings and click **OK**.

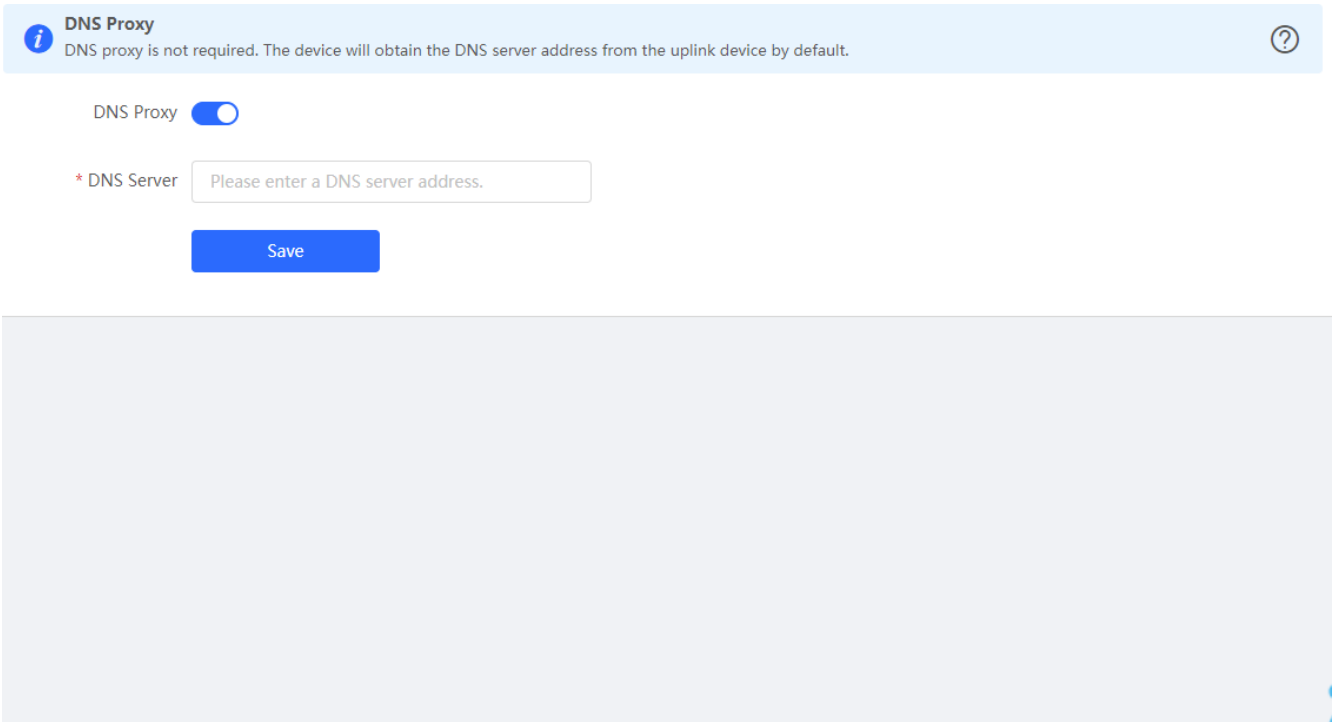
Figure 3-5-6 Add Static IP Address



3.5.1.2.4 DNS Proxy

The **DNS Proxy** module allows you to configure DNS proxy settings.

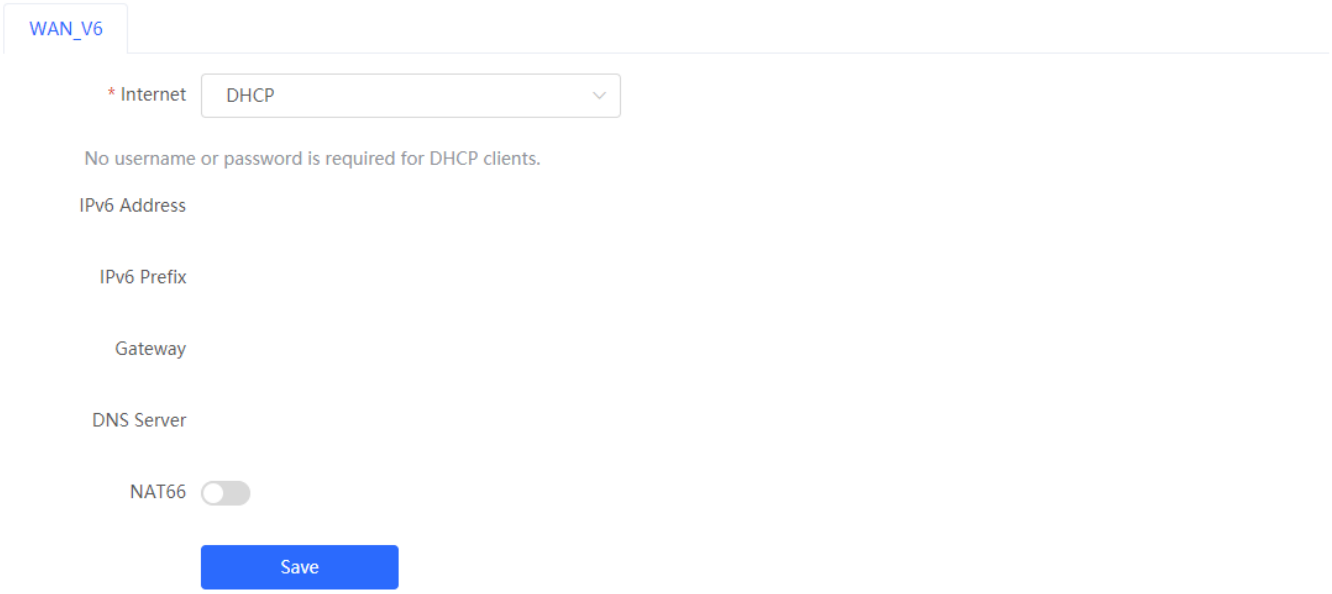
Figure 3-5-7 DNS Proxy



3.5.1.3 IPv6 Address

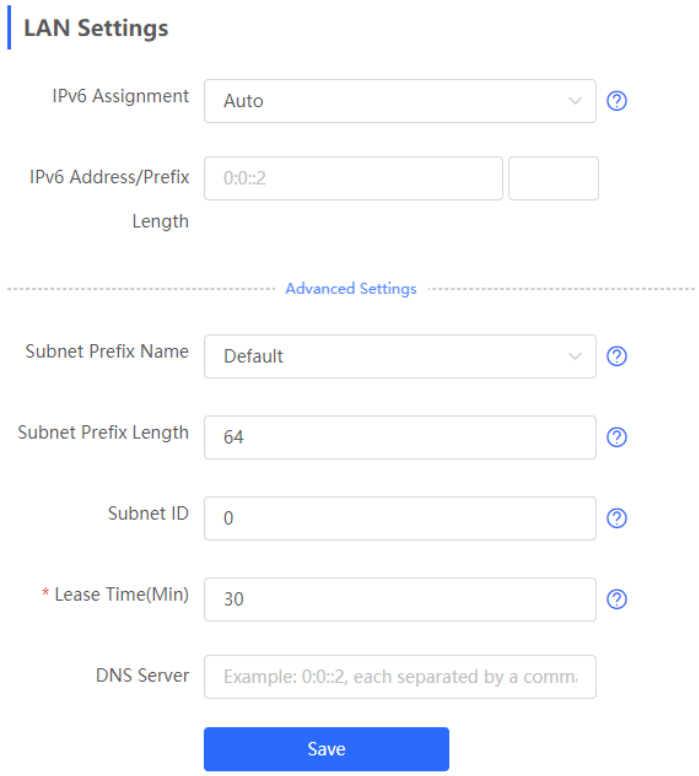
The **WAN Settings** module allows you to configure WANv6 settings.

Figure 3-5-8 WAN Settings



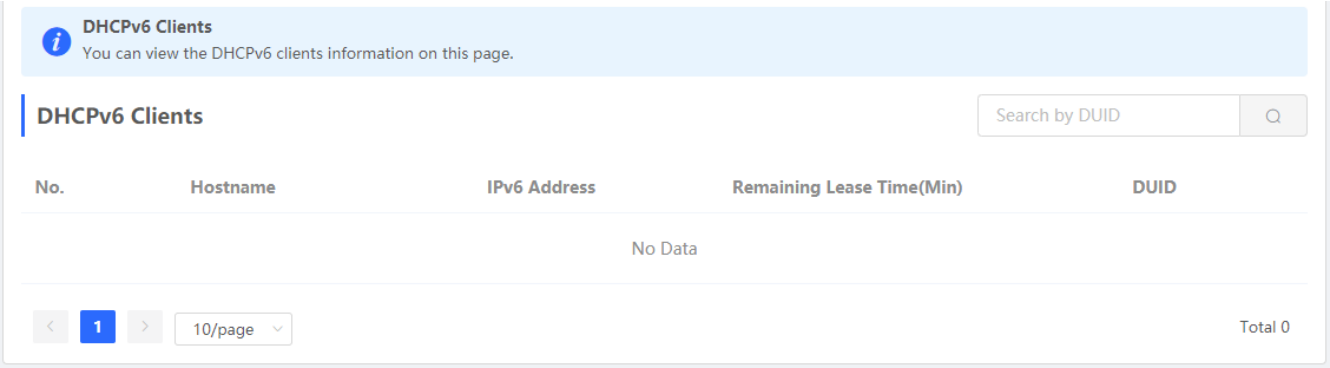
The **LAN Settings** module allows you to configure LANv6 settings.

Figure 3-5-9 LAN Settings



The **DHCPv6 Clients** module allows you to configure DHCPv6 clients.

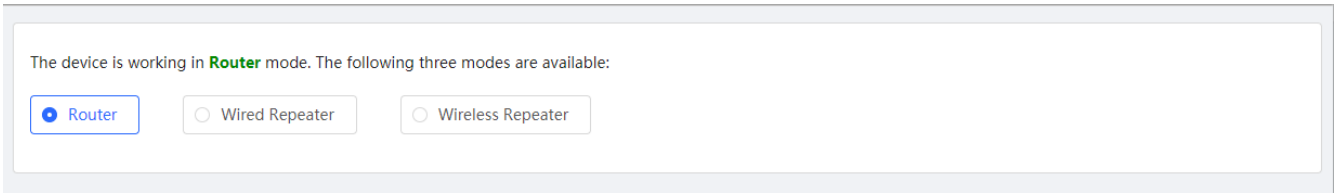
Figure 3-5-10 DHCPv6 Clients



3.5.1.4 Repeater

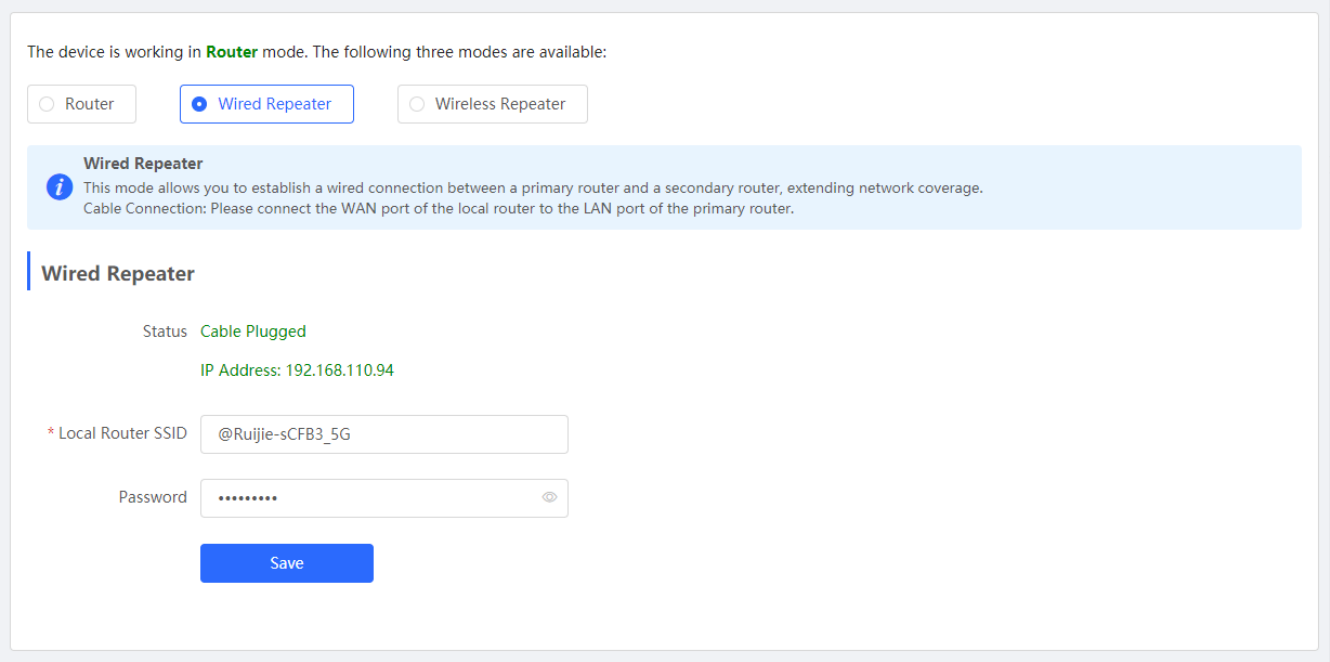
The **Repeater** module displays the current mode and the other available modes.

Figure 3-5-11 Router Mode



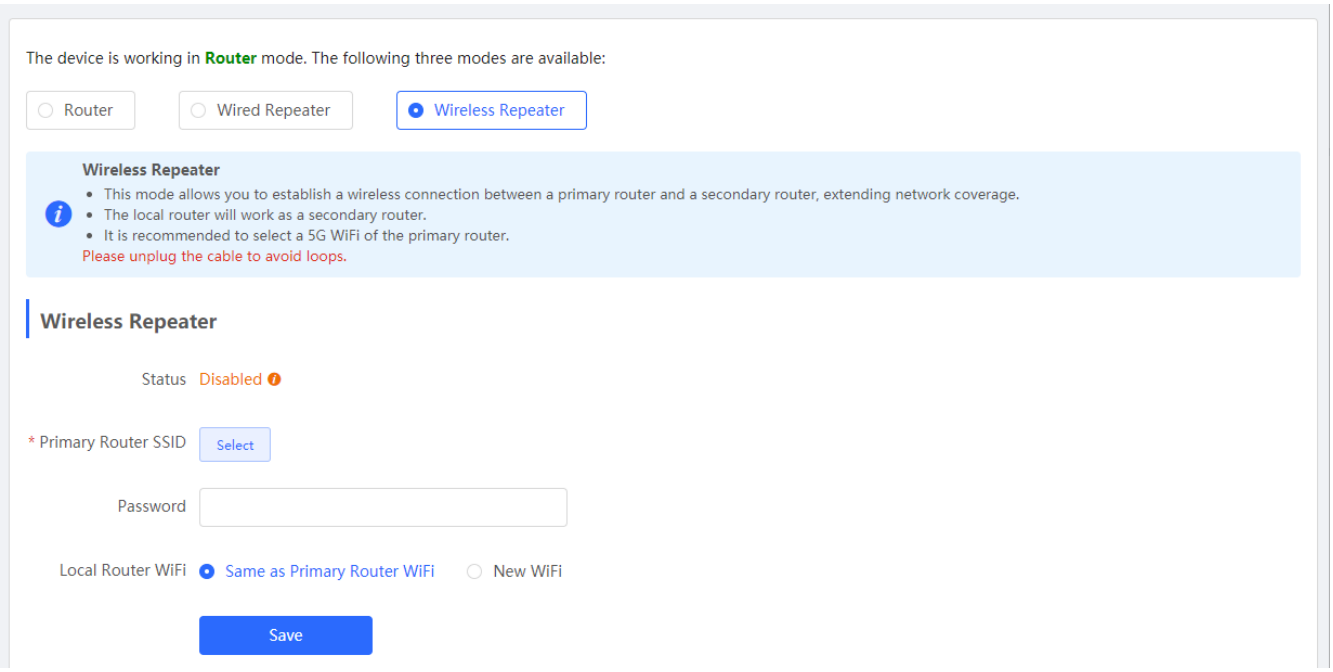
Switch the device over to the wired repeater mode.

Figure 3-5-12 Wired Repeater



Switch the device over to the wireless repeater mode.

Figure 3-5-13 Wireless Repeater



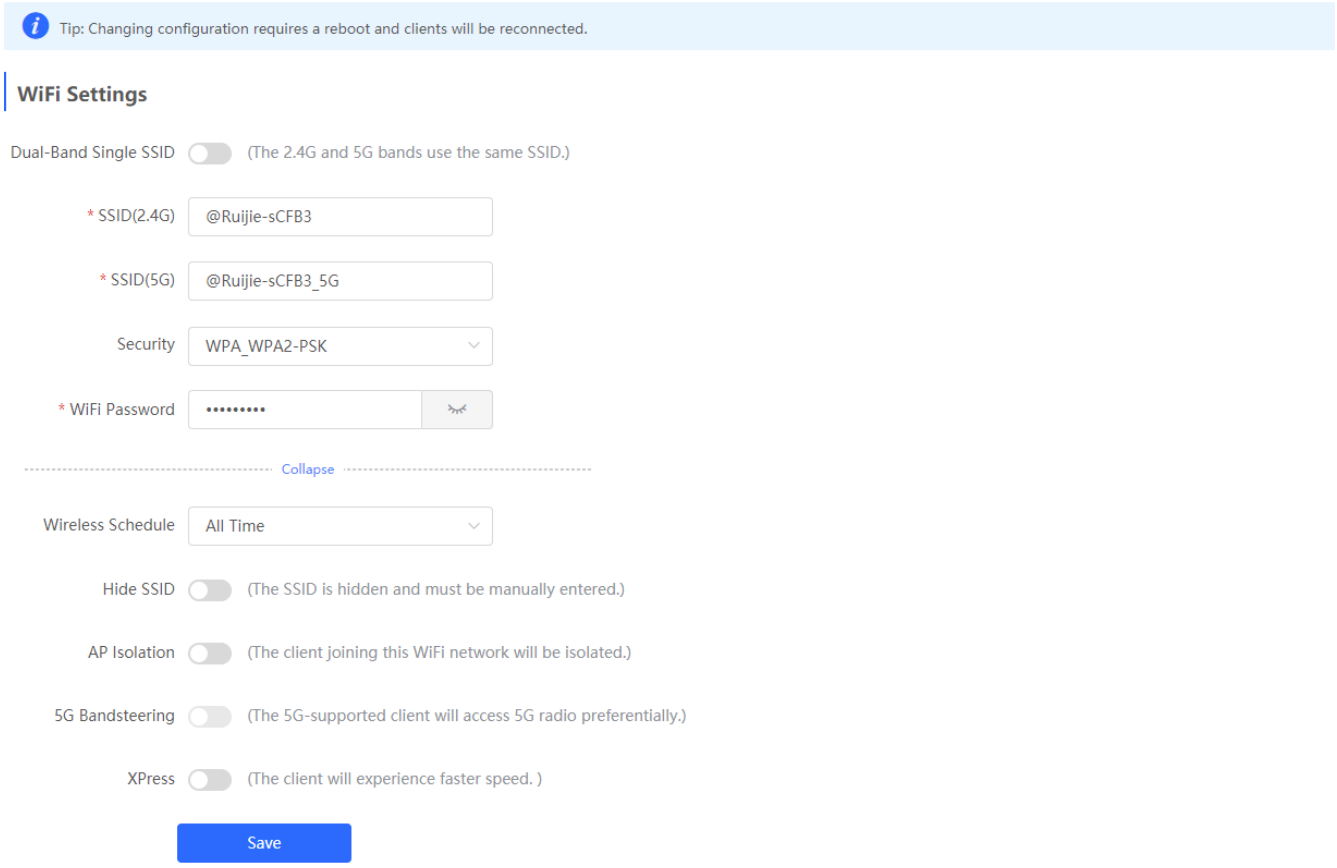
3.5.2 Wireless

3.5.2.1 WiFi

3.5.2.1.1 WiFi Settings

The **WiFi Settings** module allows you to configure the primary WiFi.

Figure 3-5-·14 WiFi Settings



3.5.2.1.2 Guest WiFi

The guest WiFi is disabled by default. You can enable guest WiFi on this page or homepage.

AP isolation is enabled by default and cannot be edited.

Set a schedule, and the guest WiFi will be enabled only during this period time. When the time expires, the guest WiFi will be disabled.

Figure 3-5-15 Guest WiFi

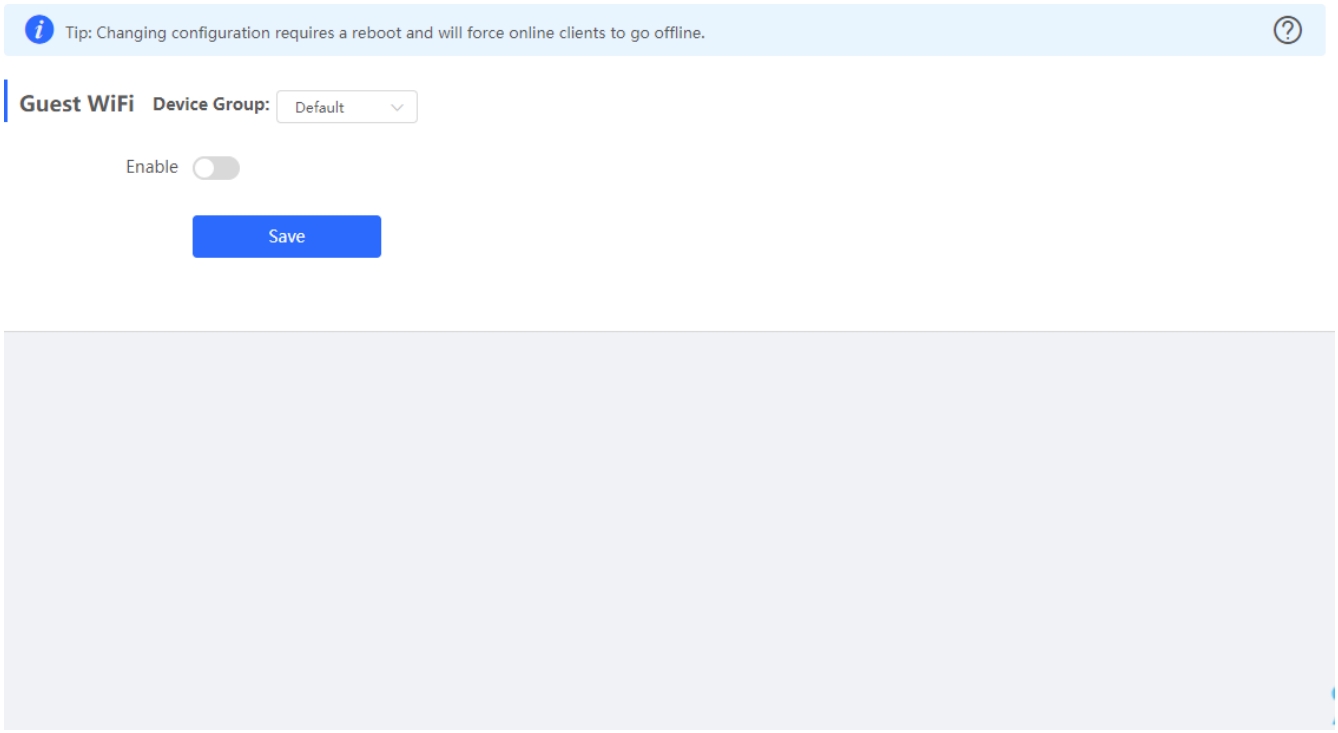
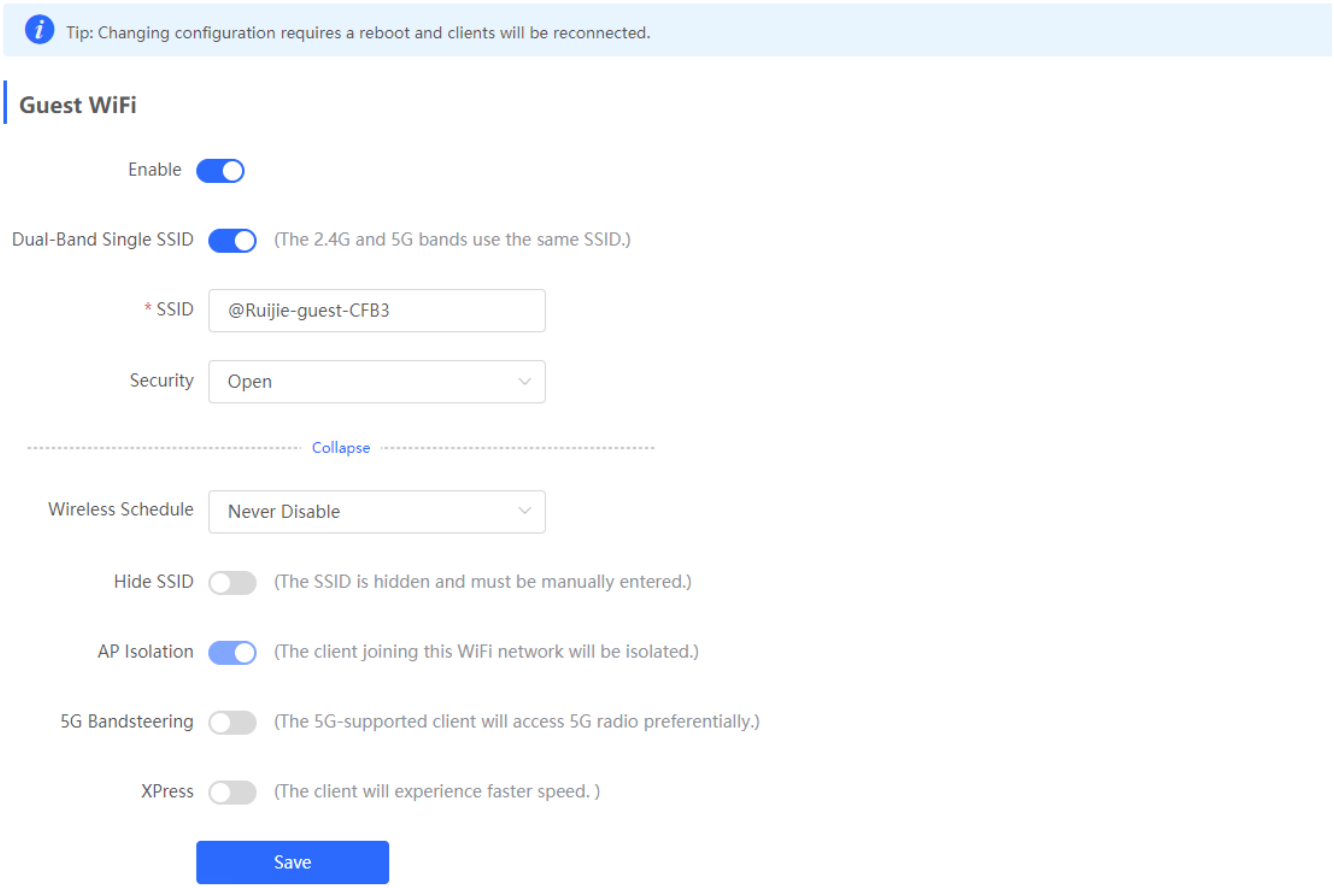


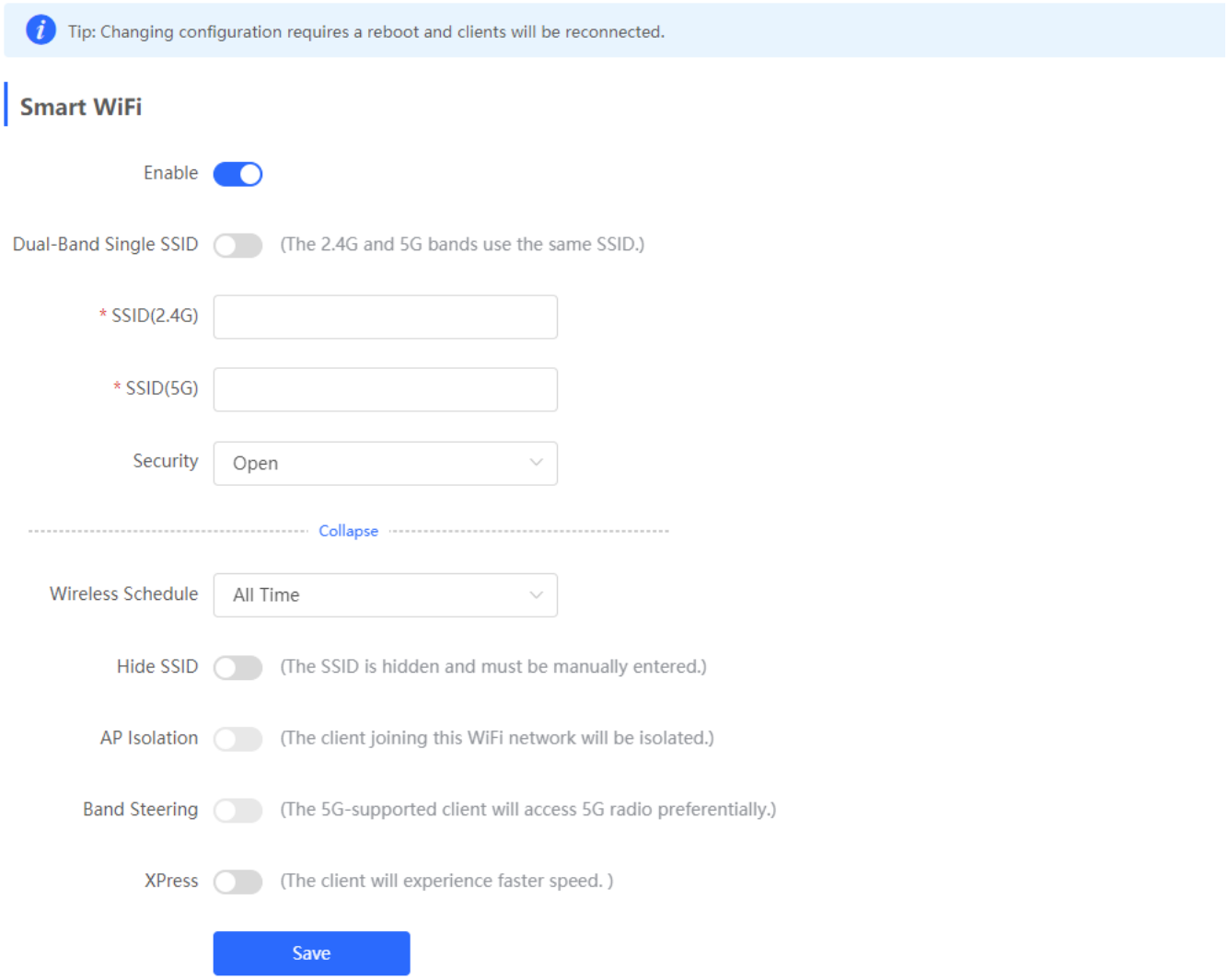
Figure 3-5-16 Enable Guest WiFi



3.5.2.1.3 Smart WiFi

The Smart WiFi module allows to configure the smart WiFi.

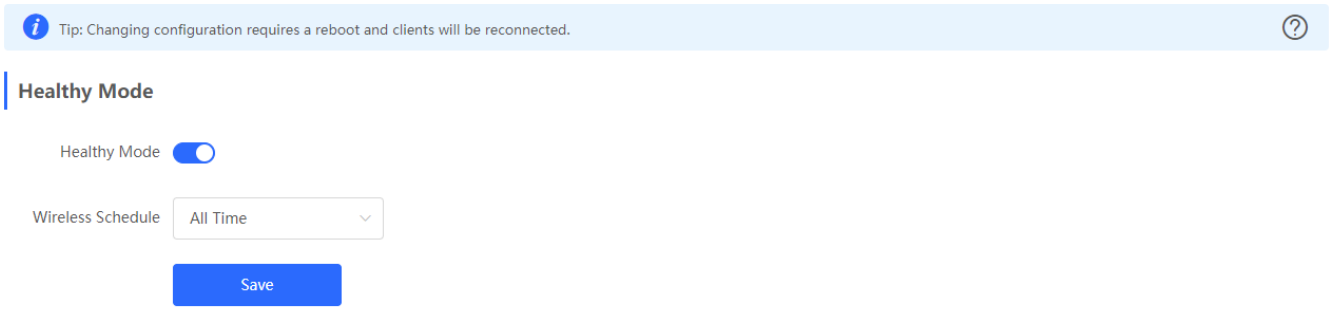
Figure 3-5-17 Smart WiFi



3.5.2.1.4 Healthy Mode

The **Healthy Mode** module allows you to enable health mode and set a schedule.

Figure 3-5-18 Healthy Mode

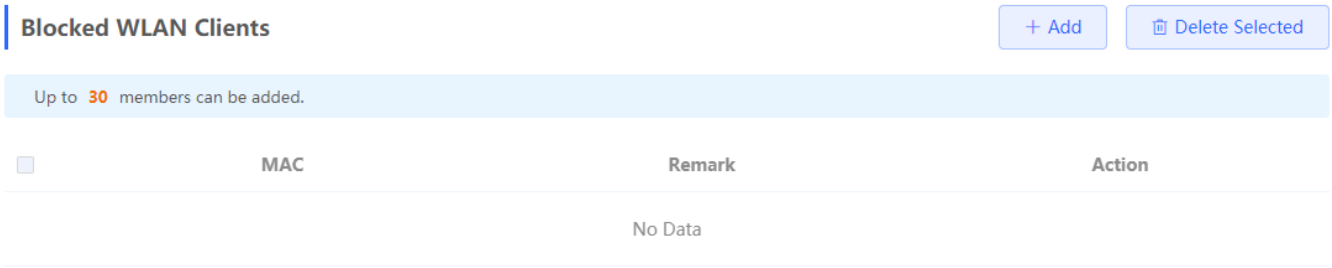


3.5.2.2 Blocked Clients

The **Blocked Clients** module allows you to add, edit or delete blocked clients.

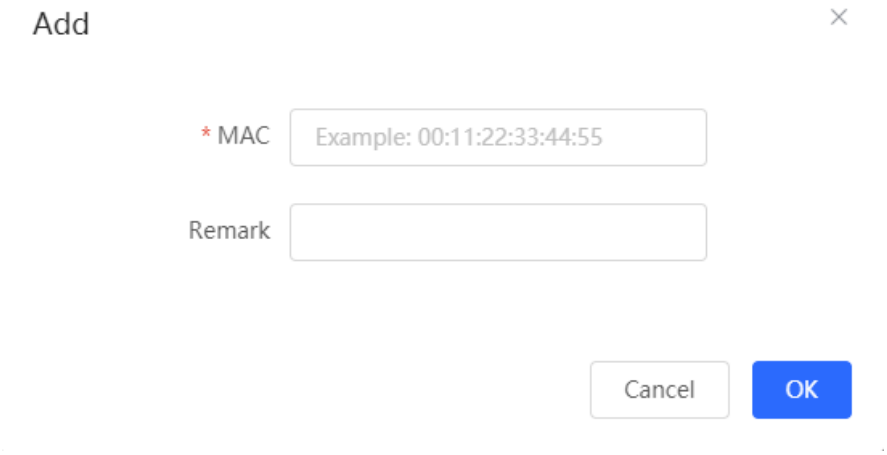
Click **Delete** in the **Action** column to delete a blocked client. Alternatively, select target clients and click **Delete Selected** to delete more than one blocked clients.

Figure 3-5-19 Blocked Clients



Click **Add** to add a blocked Clients. In the displayed dialog box, configure settings and click **OK**.

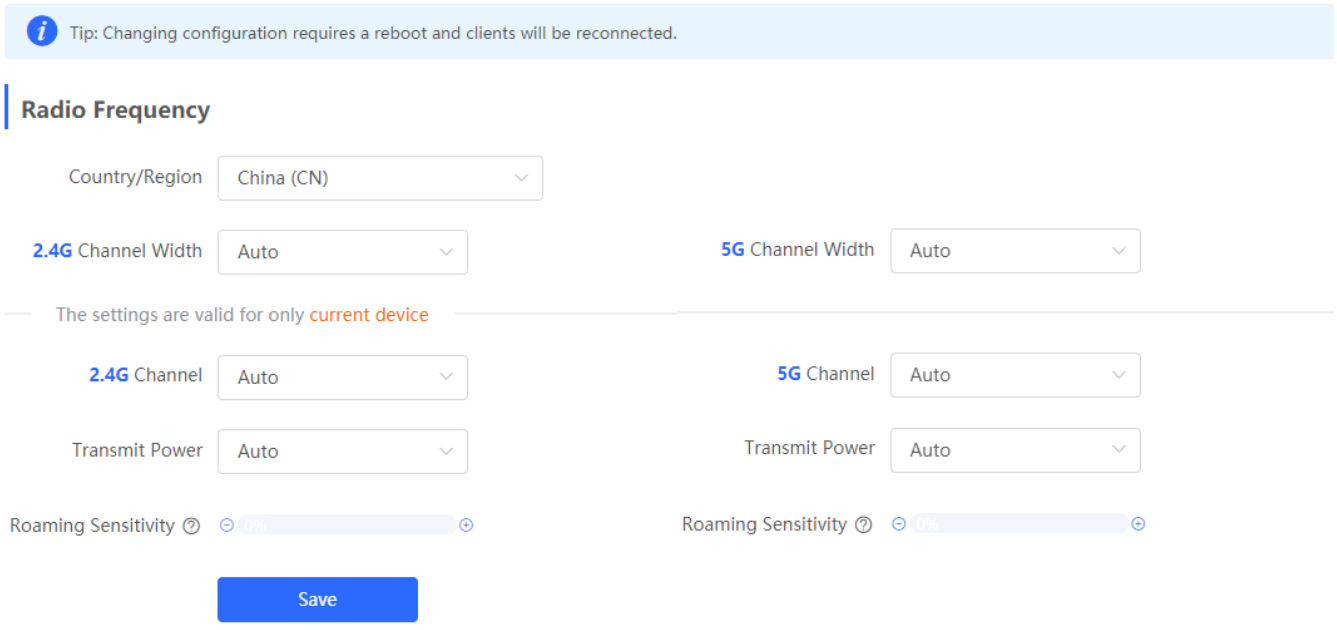
Figure 3-5-20 Add Blocked Client



3.5.2.3 Radio Frequency

The **Radio Frequency** module allows you to configure channel width, transmit power and roaming sensitivity.

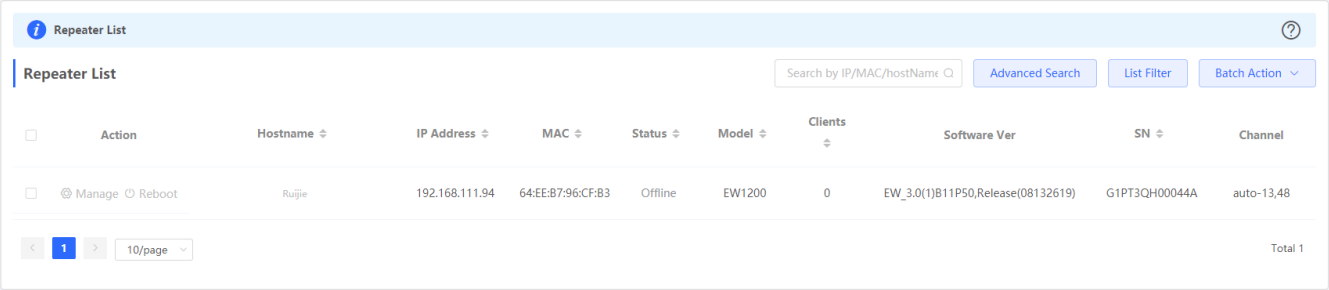
Figure 3-5-21 Radio Frequency



3.5.3 Repeater

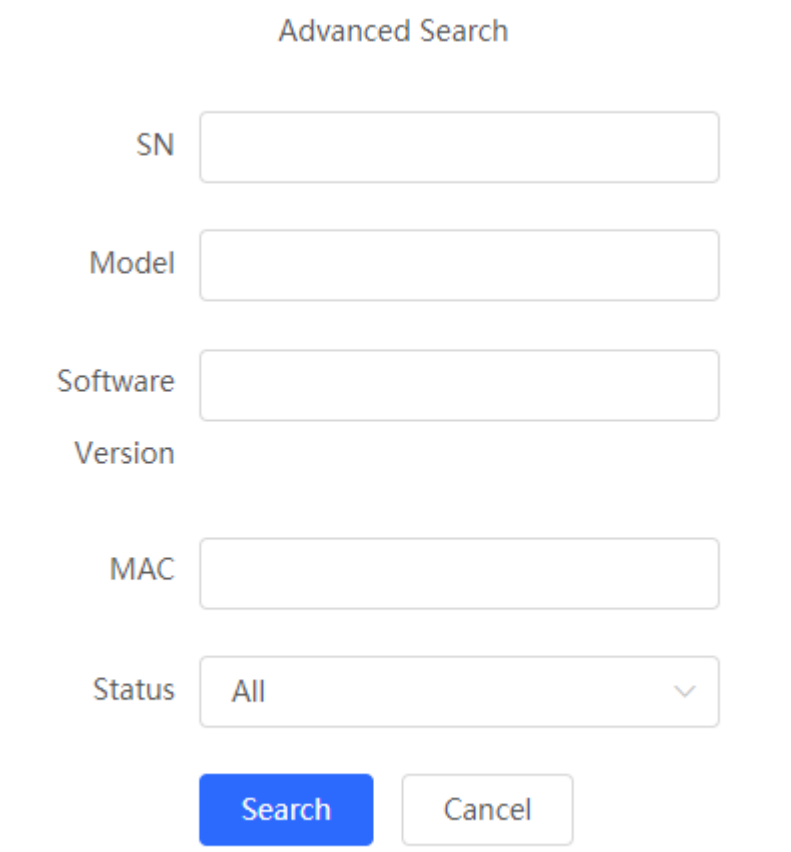
The **Repeater** module allows you to group, upgrade and delete repeaters.

Figure 3-5-22 Repeater List



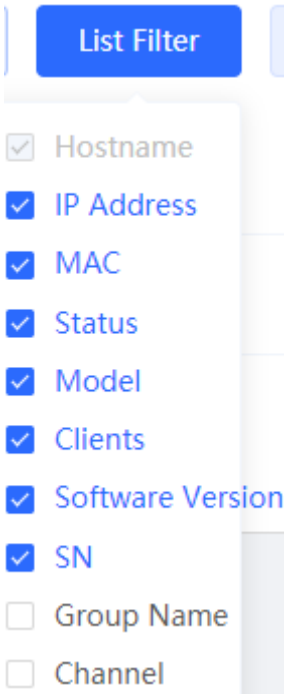
Click **Advanced Search**, and you can search APs by SN, model, software version, MAC address and status.

Figure 3-5-23 Advanced Search



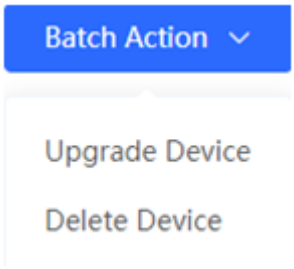
Click **List Filter**, and you can select columns to be displayed in the list.

Figure 3-5-24 List Filter



Select the target devices and click **Batch Action**. The following actions are available:

Figure 3-5-25 Batch Action



Upgrade Device: If there is a new version available, you can upgrade the devicess in batches.

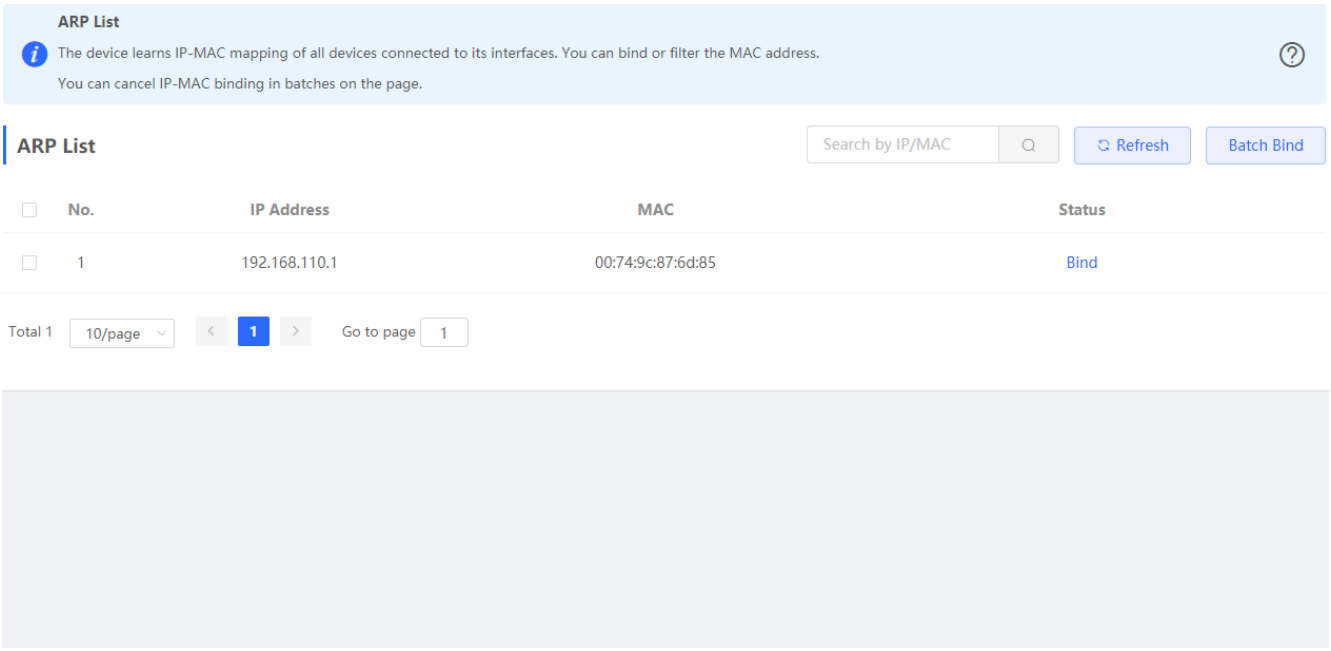
Delete Device: You can delete the APs in batches.

3.5.4 Security

3.5.4.1 ARP List

The **ARP List** page displays ARP entries.

Figure 3-5-26 ARP List

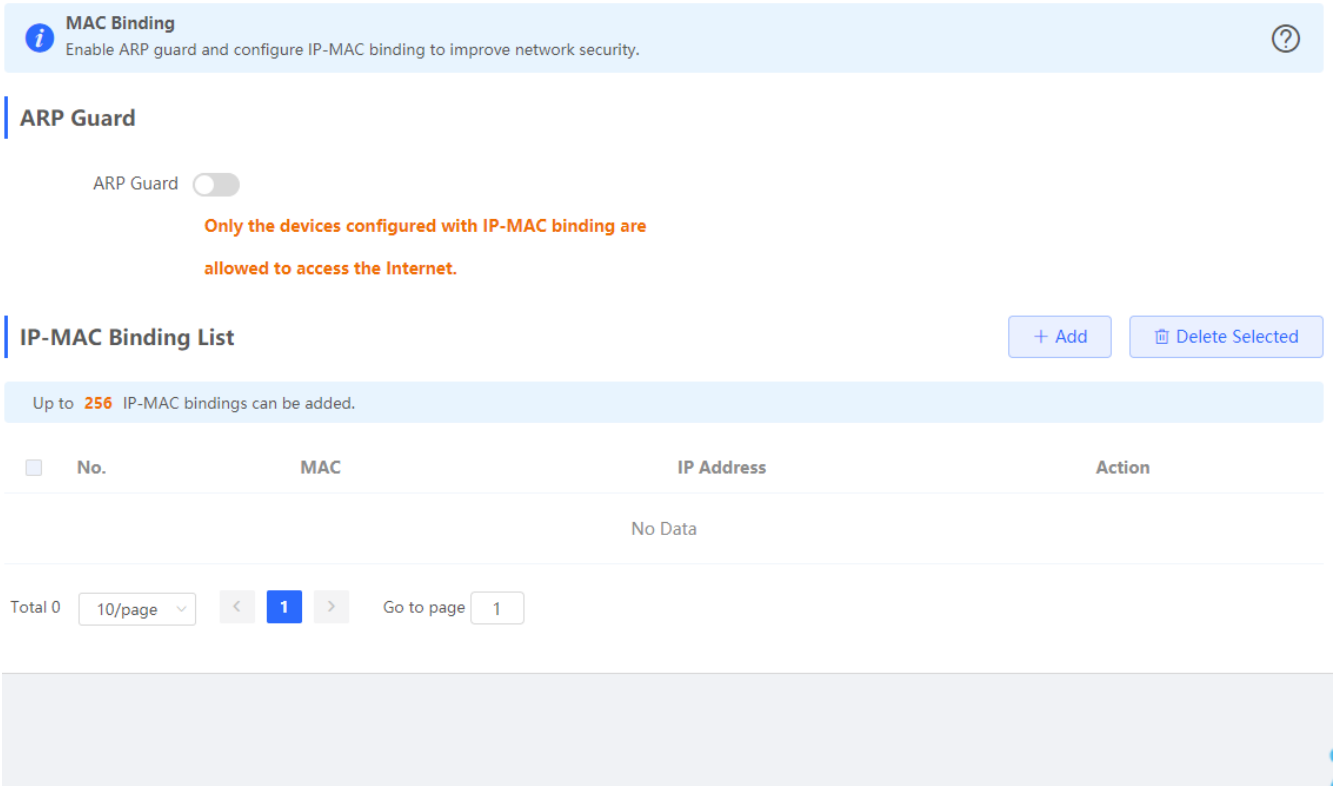


Click **Bind** in the **Action** column to bind an IP address with a MAC address. Alternatively, select ARP entries and click **Batch Bind** to bind more than one IP address. You can click MAC Binding to view static ARP entries.

3.5.4.2 MAC Binding

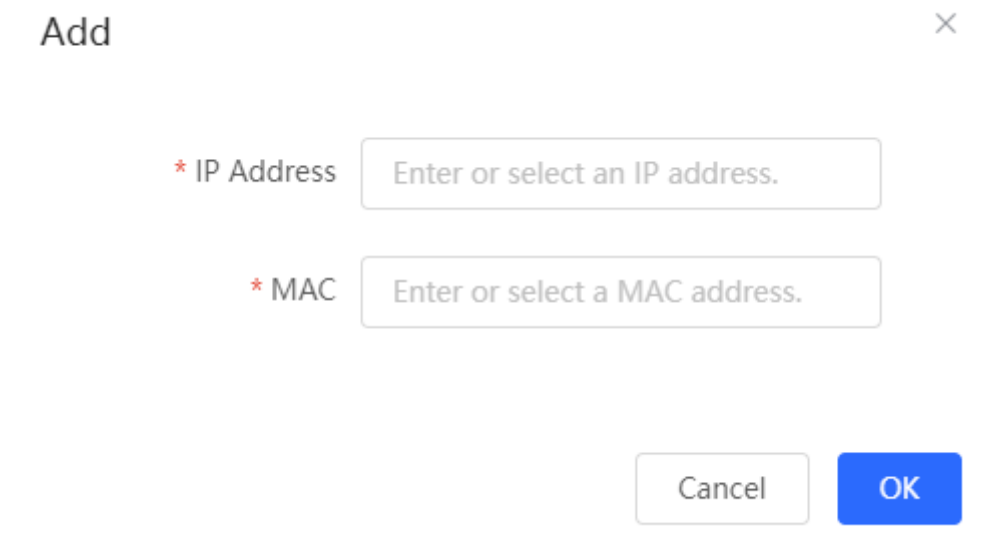
The **MAC Binding** module allows you to add, delete and edit IP-MAC binding entries.

Figure 3-5-27 IP-MAC Binding



Click **Add** to add an IP-MAC binding. In the displayed dialog box, enter or select an IP address and a MAC address and click **OK**.

Figure 3-5-28 Add IP-MAC Binding



Click **Delete** in the **Action** column. The message "Are you sure you want to delete the entry?" is displayed. In the displayed dialog box, click **OK**. The message "Delete operation succeeded." is displayed.

3.5.5 Advanced

3.5.5.1 Flow Control

3.5.5.1.1 Smart Flow Control

The **Smart Flow Control** module allows you to configure smart flow control.

Figure 3-5-29 Smart Flow Control

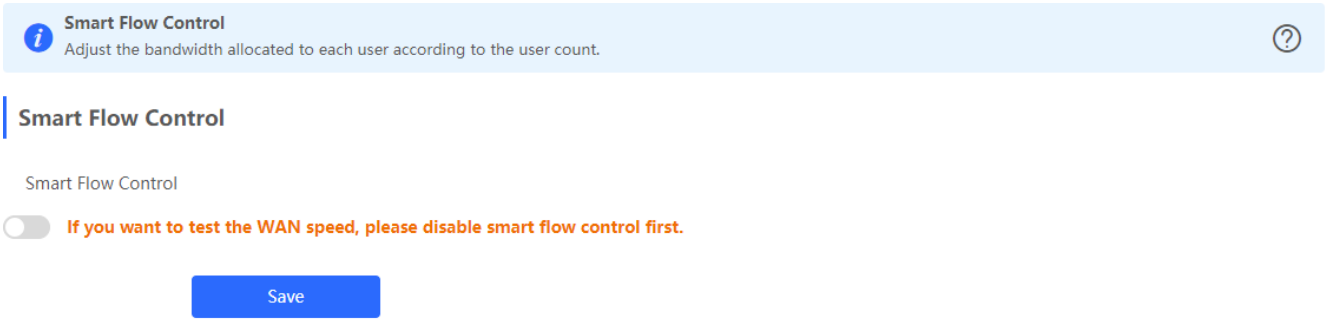
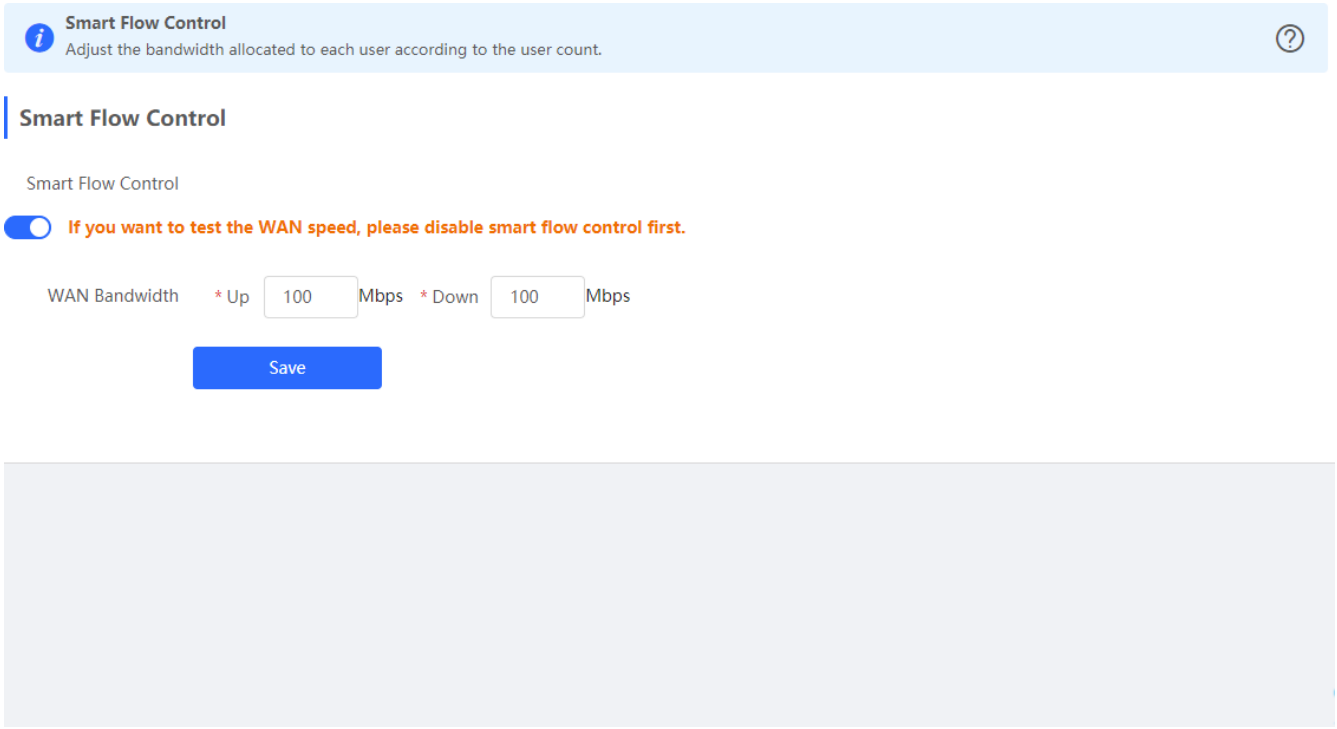


Figure 3-5-30 Enable Smart Flow Control

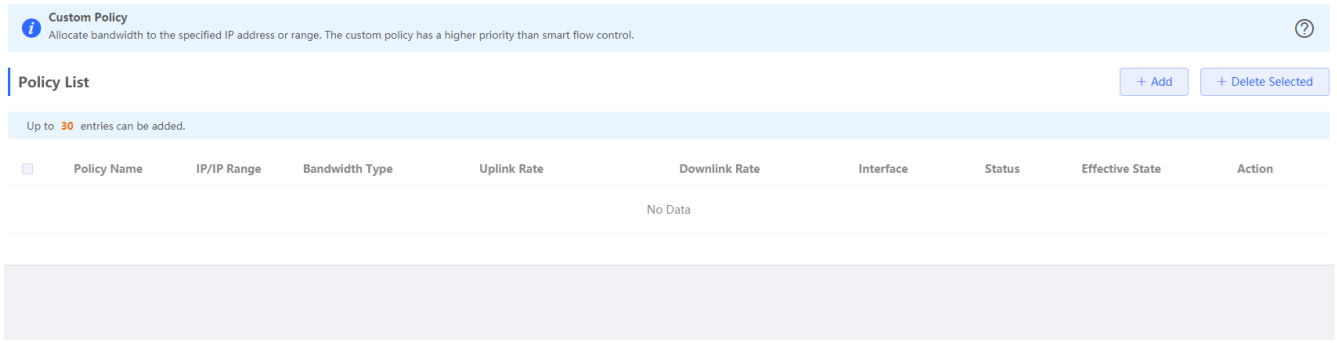


If there is more than one WAN port, **WAN Bandwidth** settings of each port will be displayed accordingly.

3.5.5.1.2 Custom Policy

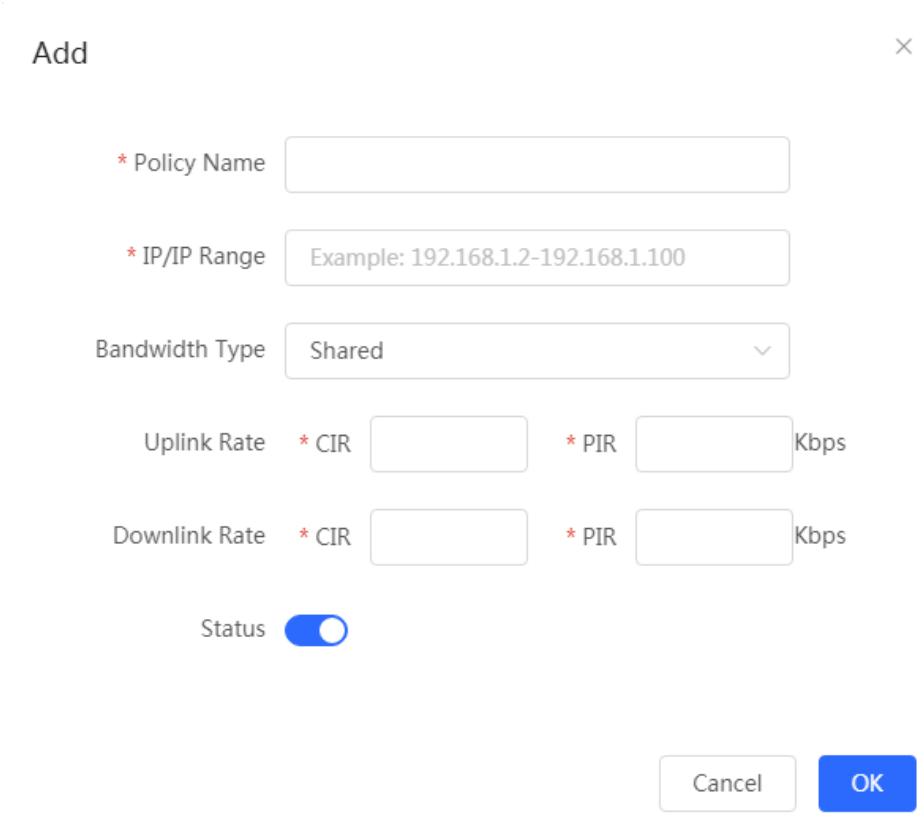
The **Custom Policy** module allows you to add, delete and edit custom flow control policies.

Figure 3-5-31 Custom Flow Control Policy



Click **Add** to add a custom flow control policy. In the displayed dialog box, configure settings and click **OK**.

Figure 3-5-32 Add Flow Control Policy

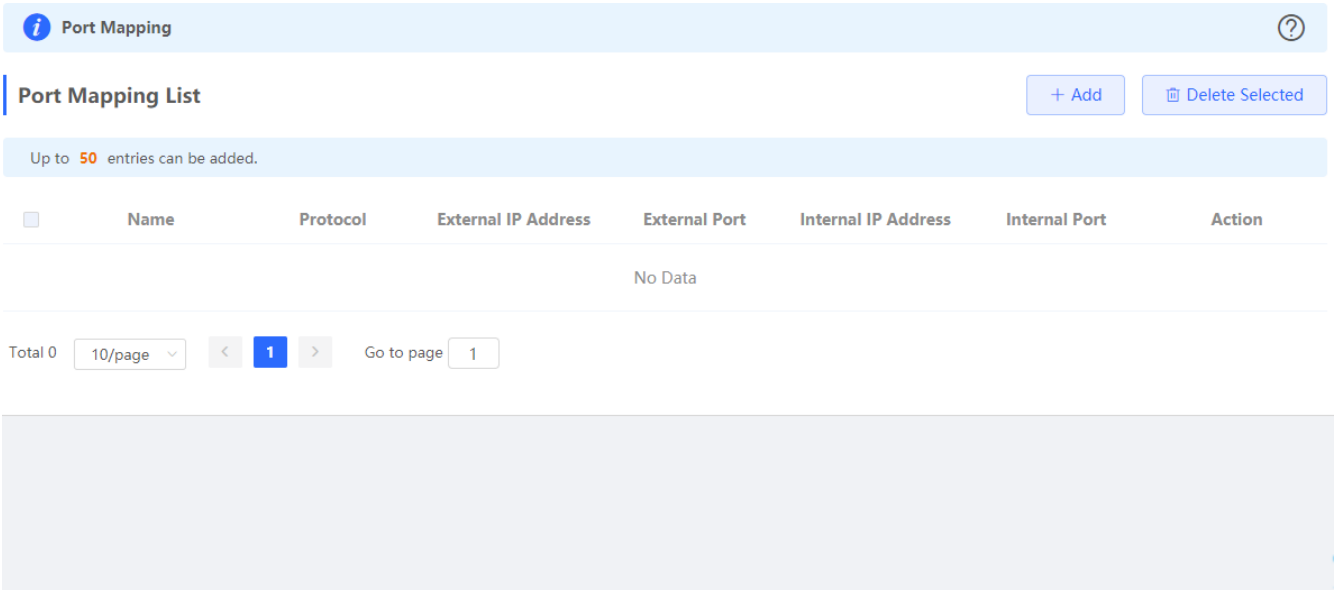


3.5.5.2 Port Mapping

3.5.5.2.1 Port Mapping

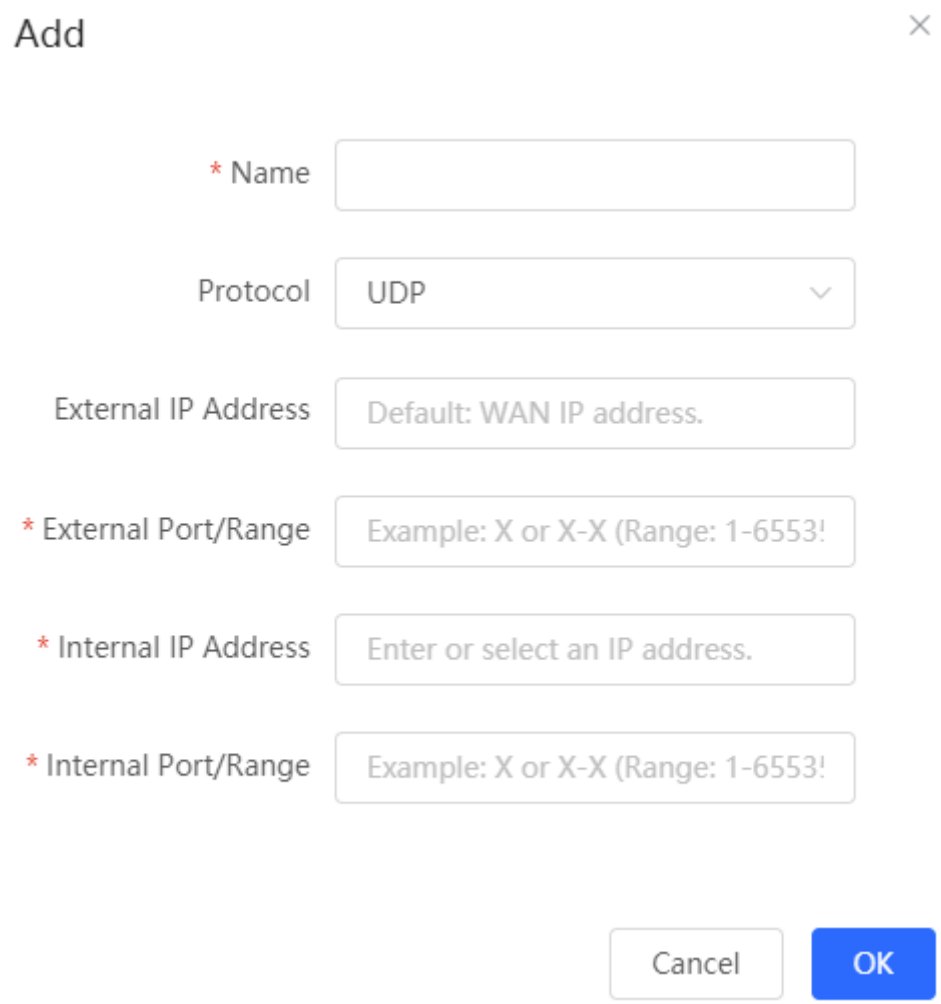
The **Port Mapping** module allows you to add, delete and edit port mapping policies.

Figure 3-5-33 Port Mapping List



Click **Add** to add a port mapping policy. In the displayed dialog box, configure settings and click **OK**.

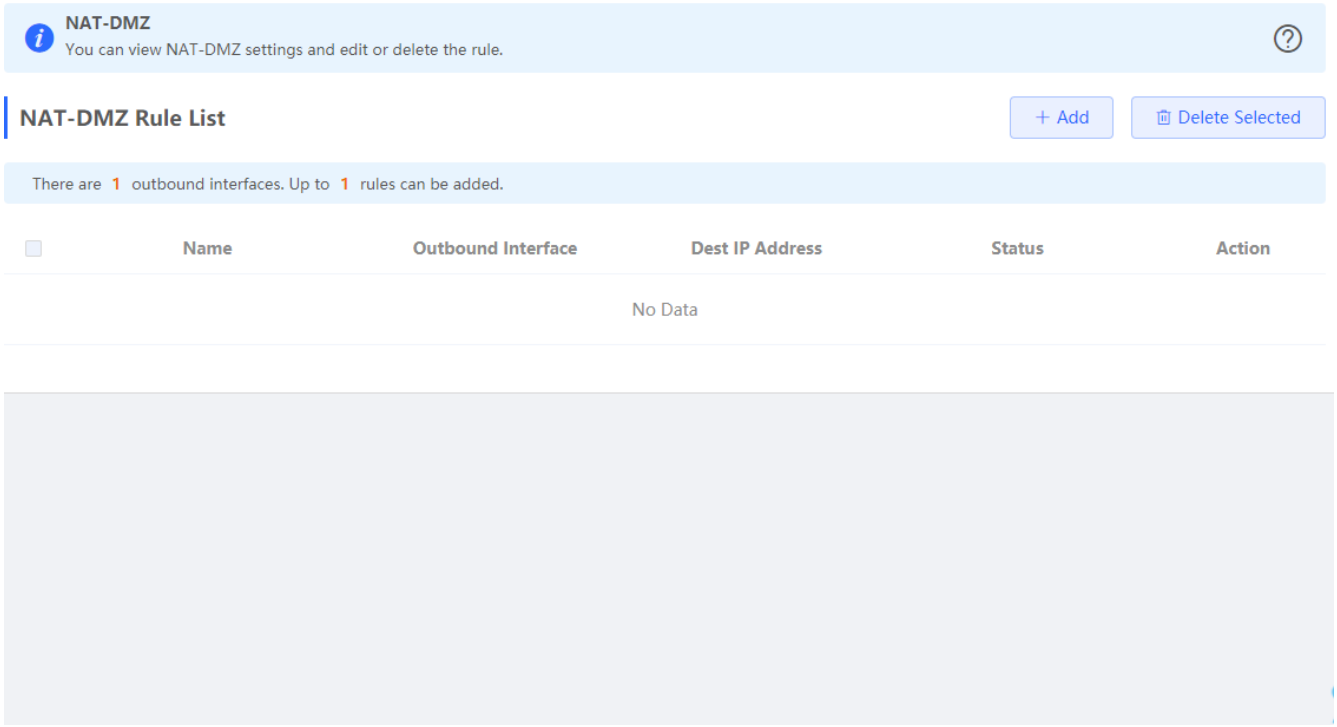
Figure 3-5-34 Add Port Mapping Policy



3.5.5.2.2 NAT-DMZ

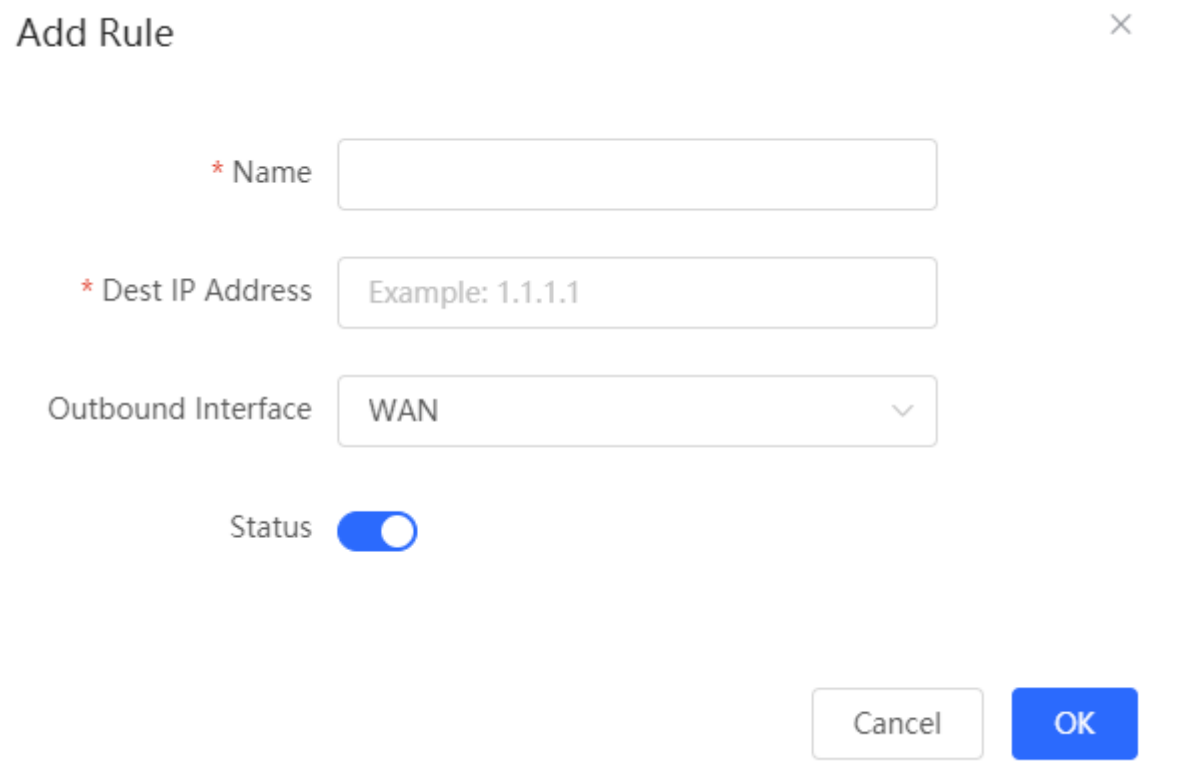
The **NAT-DMZ** module allows you to add, delete and edit NAT-DMZ rules.

Figure 3-5-35 NAT-DMZ Rule List



Click **Add** to add a NAT-DMZ rule. In the displayed dialog box, configure settings and click **OK**.

Figure 3-5-36 Add NAT-DMZ Rule

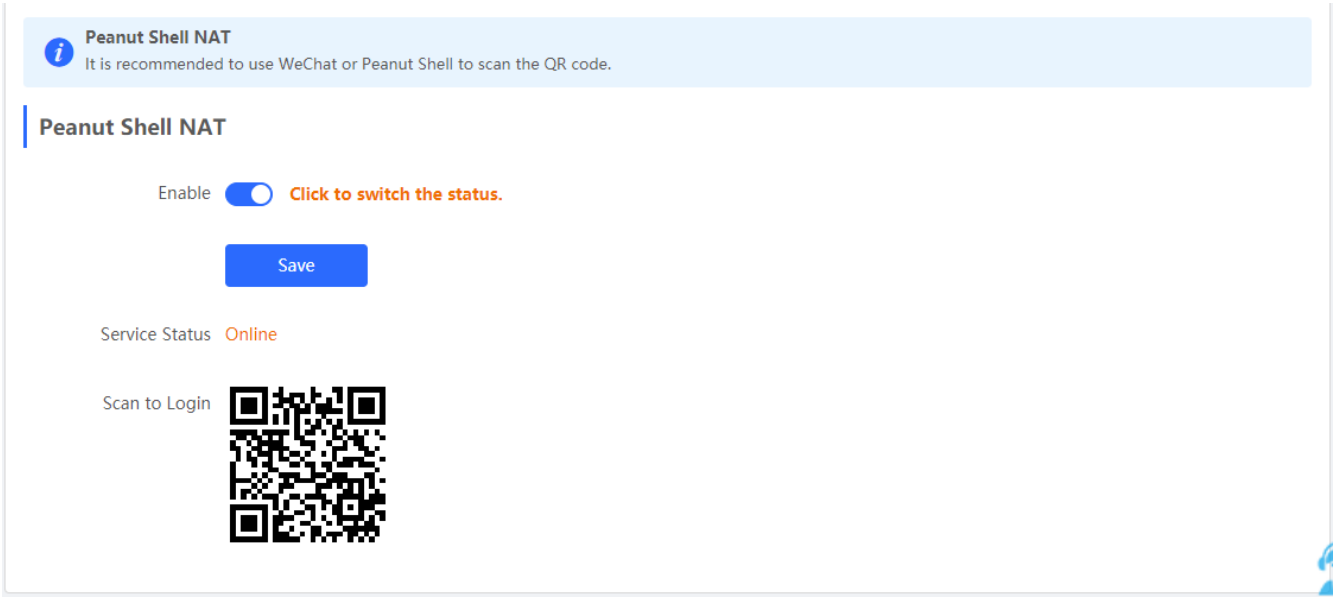


3.5.5.3 Dynamic DNS

3.5.5.3.1 Peanut Shell NAT

It is recommended to use WeChat or Peanut Shell to scan the QR code.

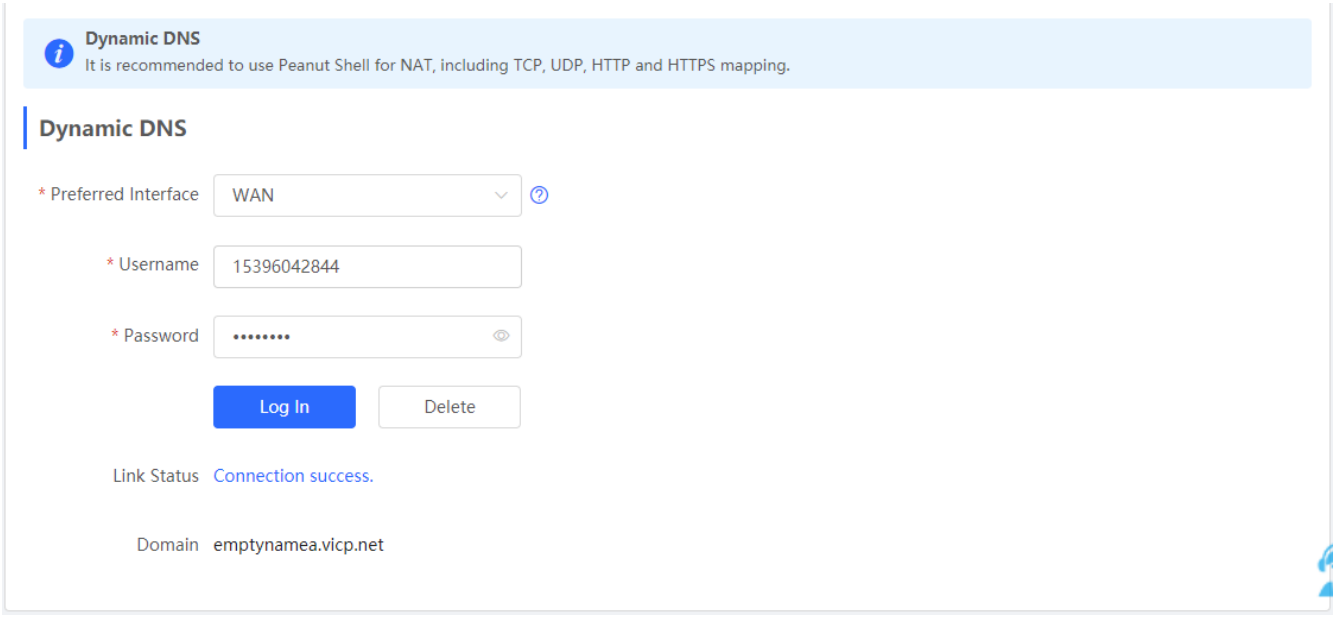
Figure 3-5-37 Peanut Shell NAT



3.5.5.3.2 Dynamic DNS

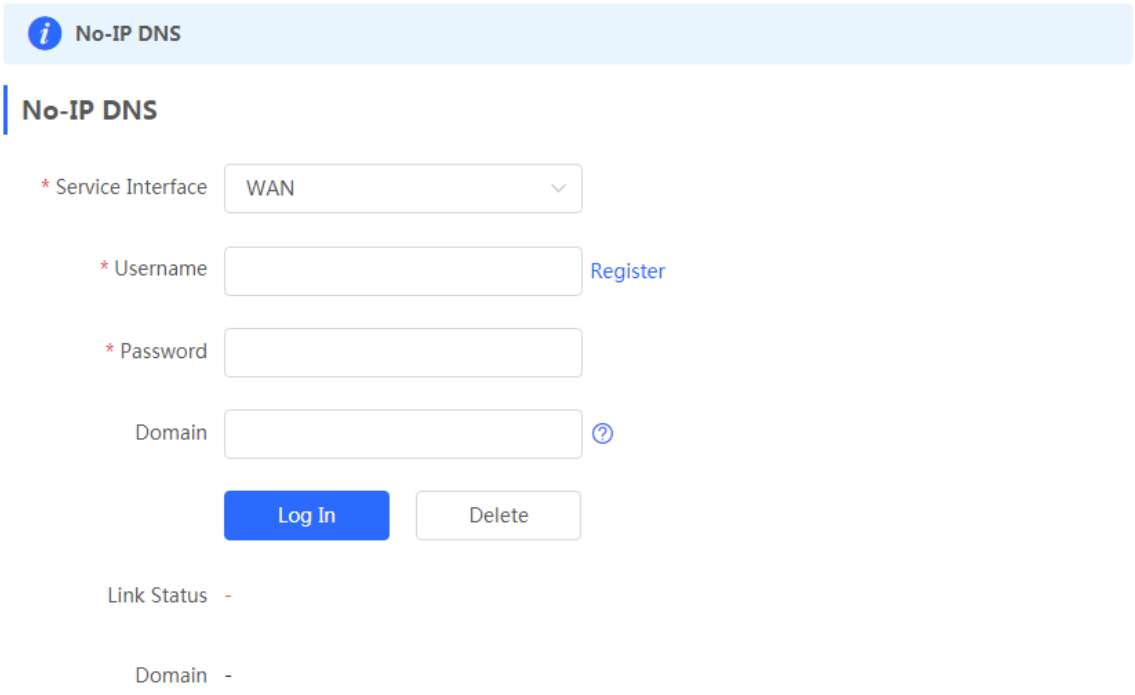
It is recommended to use Peanut Shell for NAT, including TCP, UDP, HTTP and HTTPS mapping.

Figure 3-5-38 Dynamic DNS



3.5.5.3.3 No-IP DNS

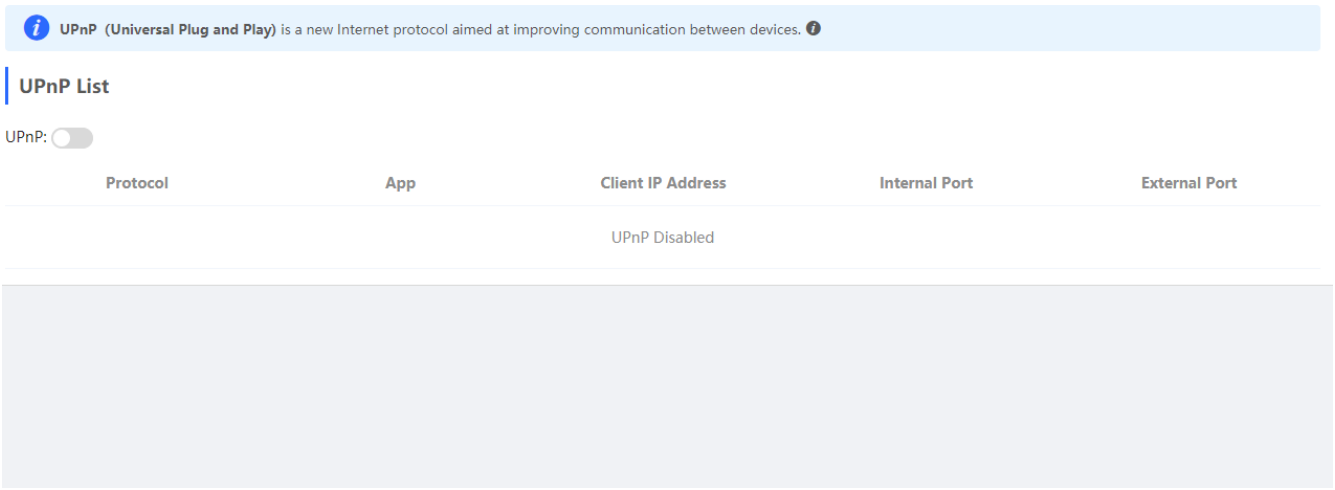
Figure 3-5-39 No-IP DNS



3.5.5.4 UPnP Settings

The **UPnP Settings** module allows you to enable UPnP and view UPnP settings.

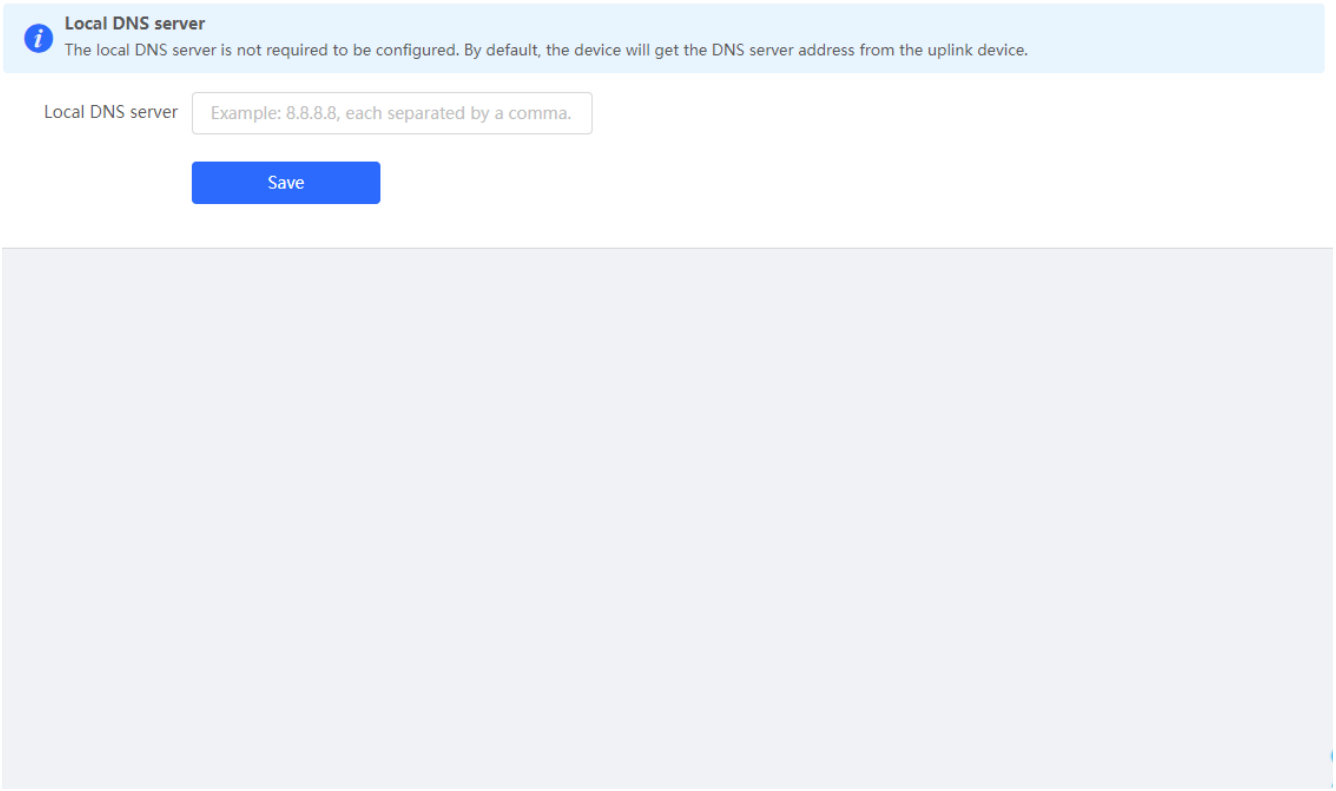
Figure 3-5-40 UPnP Settings



3.5.5.5 Local DNS

The **Local DNS** module allows you to configure a local DNS server.

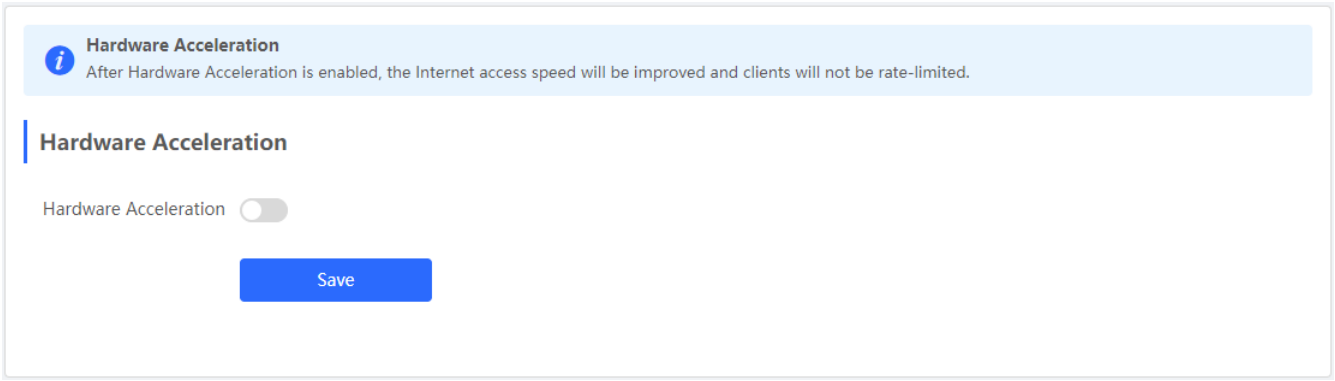
Figure 3-5-41 Local DNS



3.5.5.6 Hardware Acceleration

The **Hardware Acceleration** module allows you to enable hardware accelerattion to improve network speed.

Figure 3-5-42 Hardware Acceleration



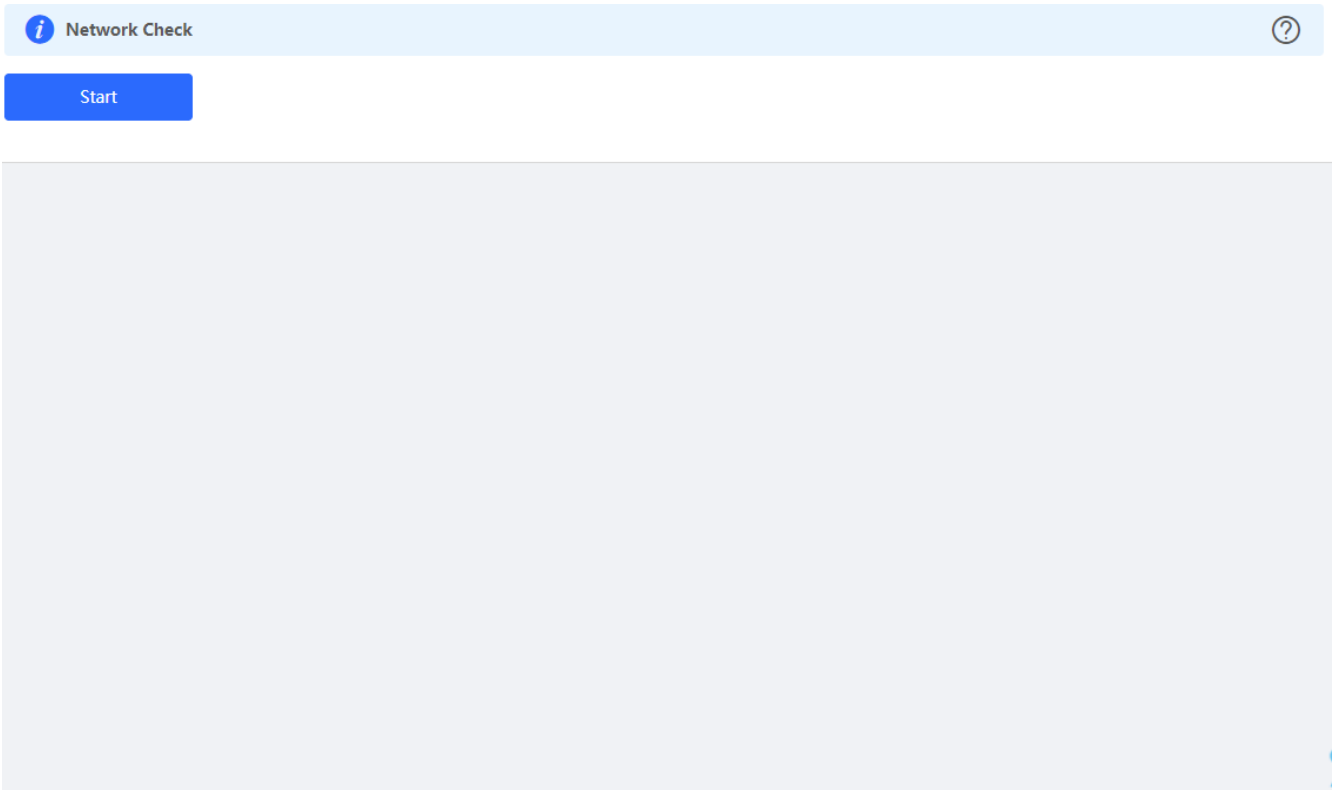
3.5.5.7 Other Settings

Figure 3-5-43 Other Settings

3.5.6 Diagnostics

3.5.6.1 Network Check

Figure 3-5-44 Network Check

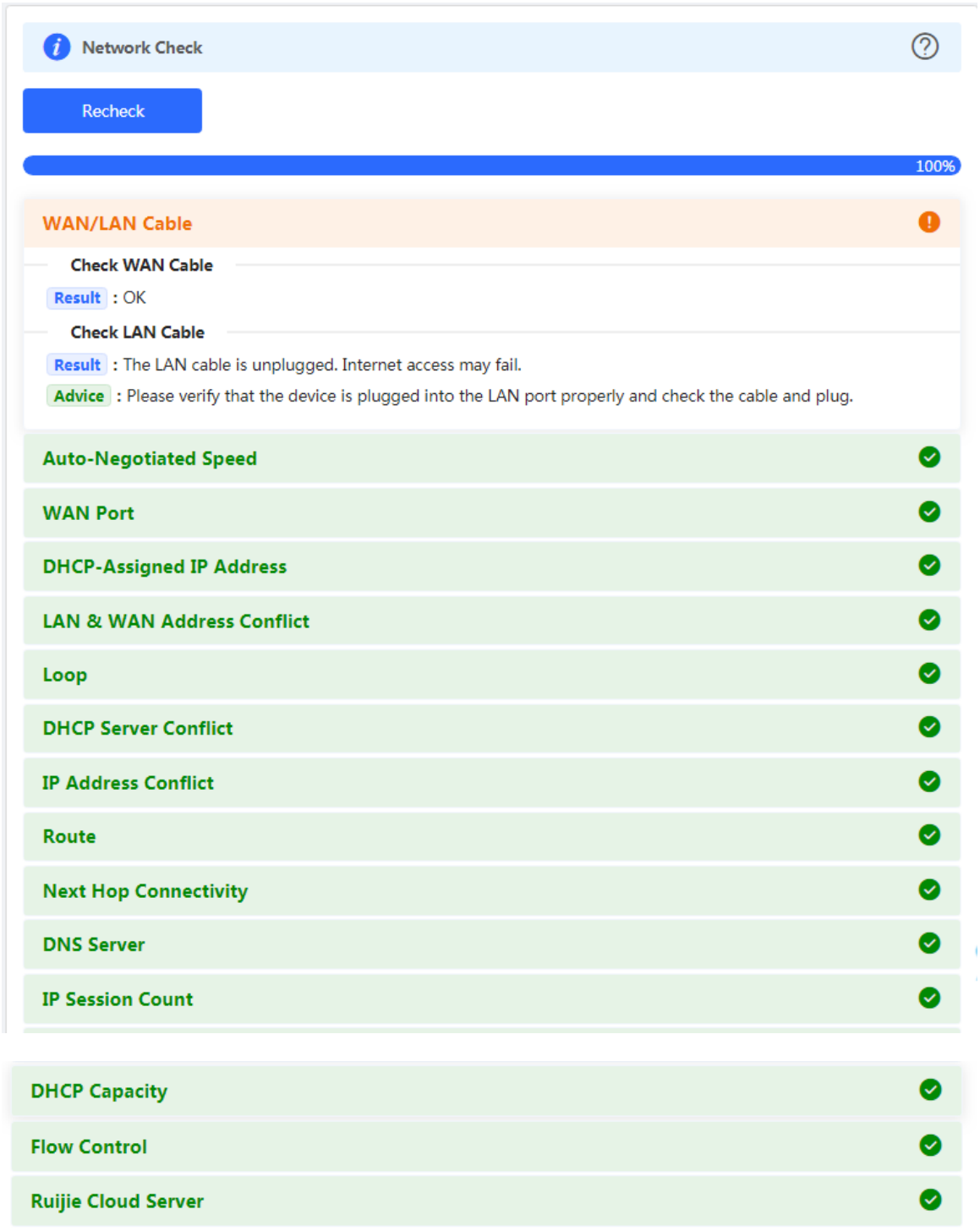


Click **Start**, and click **OK** in the confirmation box. After the test finishes, the result will be displayed.

Figure 3-5-45 Result

If any problem occurs, the result will be displayed as follows:

Figure 3-5-46 Issue & Advice

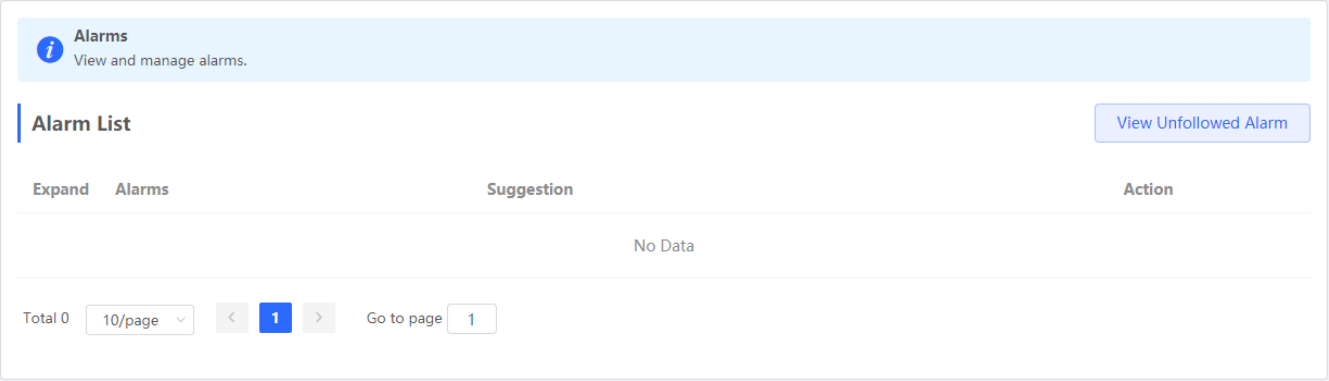


Please fix the problem by taking the suggested action.

3.5.6.2 Alarms

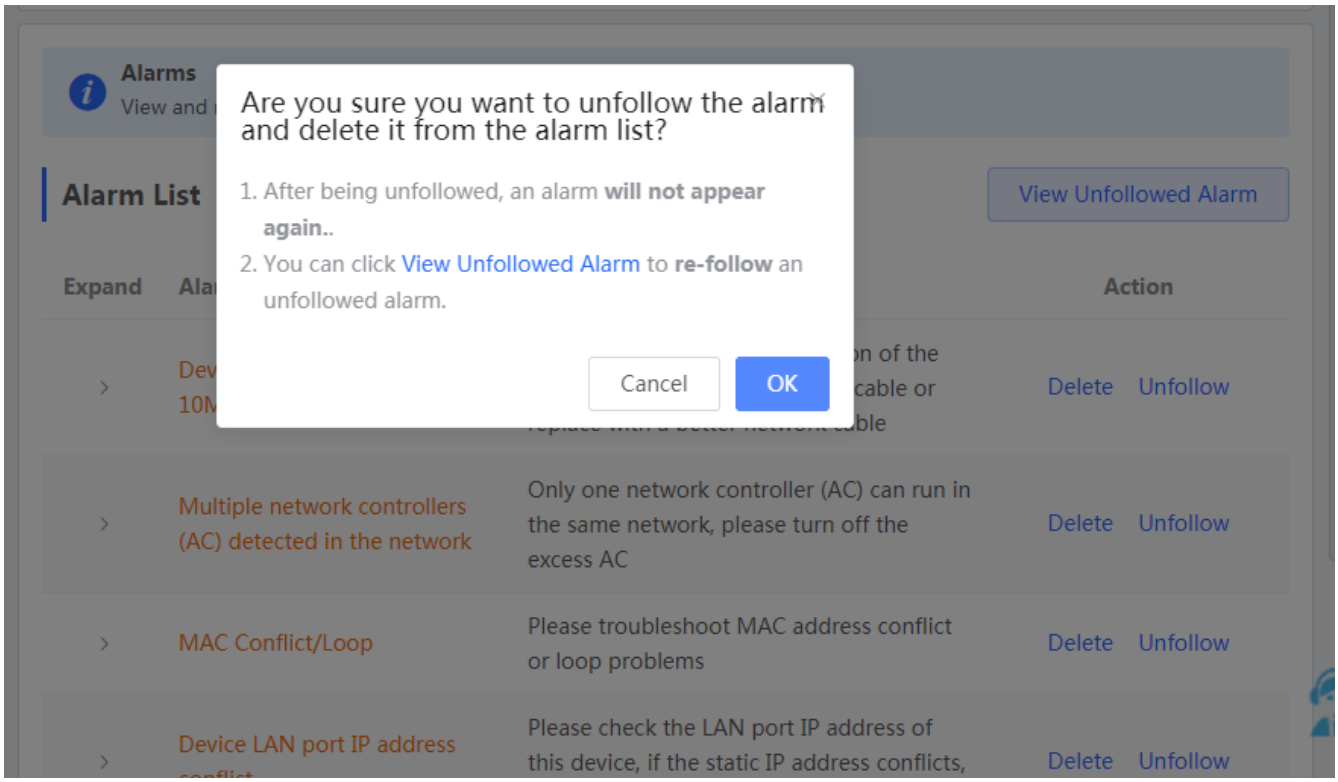
The **Alarms** module allows you to view and manage alarms in the network.

Figure 3-5-47 Alarms



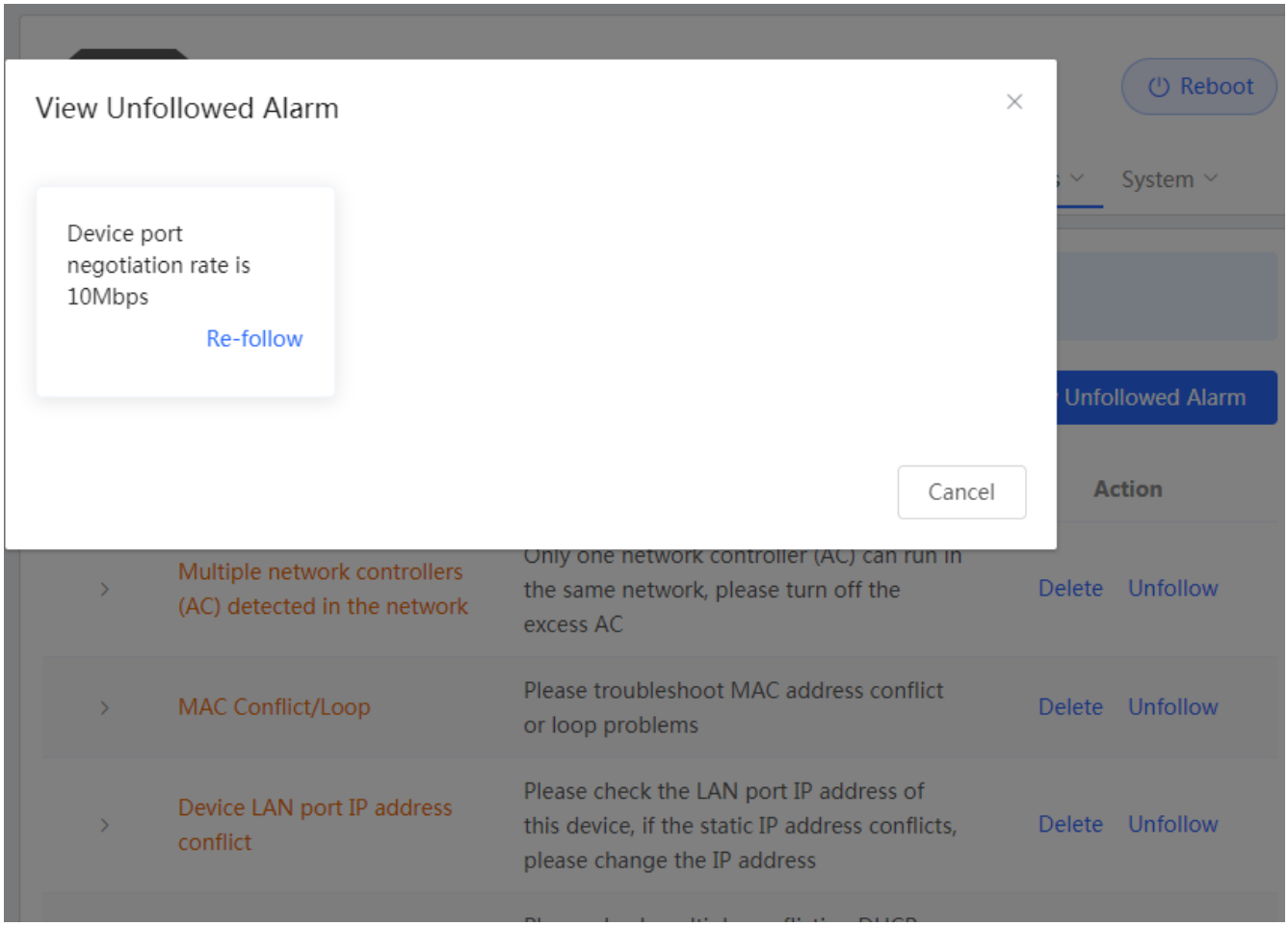
Click **Unfollow** in the **Action** column to unfollow an alarm. In the confirmation box, click **OK**.

Figure 3-5-48 Unfollow Alarm



Click **View Unfollowed Alarm**, and you can view and follow the alarm again.

Figure 3-5-49 Re-follow Alarm



3.5.6.3 Network Tools

The **Network Tools** module provides the following network tools to detect the network status: **Ping**, **Traceroute**, and **DNS Lookup**.

Figure 3-5-50 Ping Test and Result

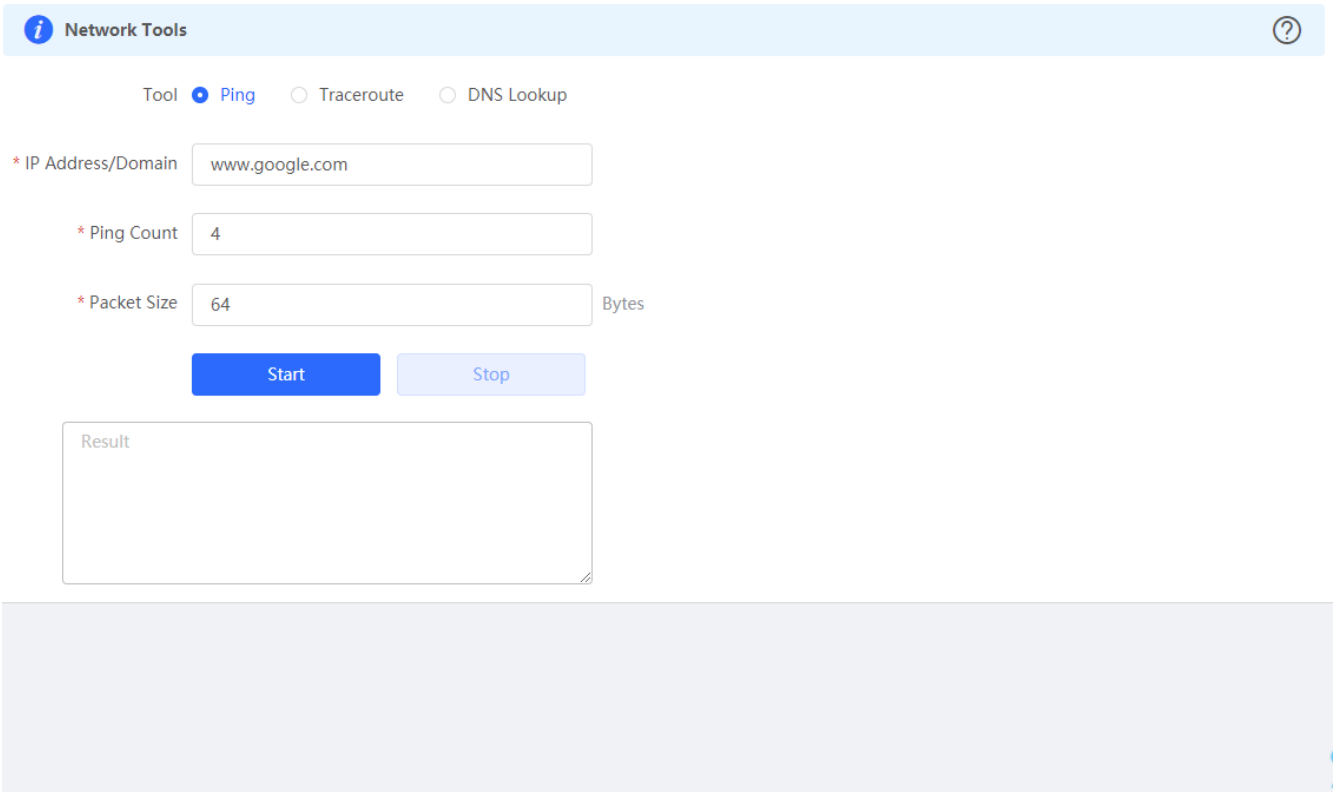


Figure 3-5-51 Traceroute Test and Result

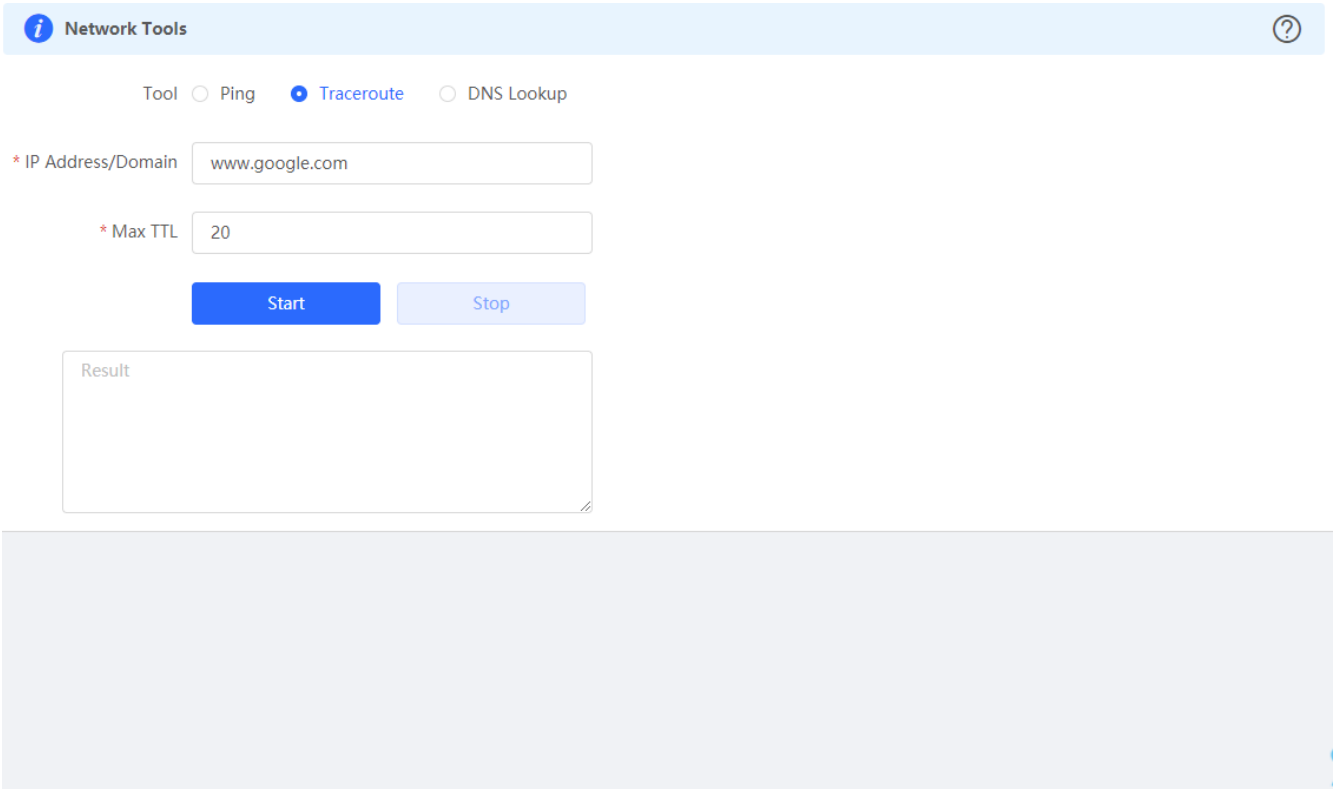
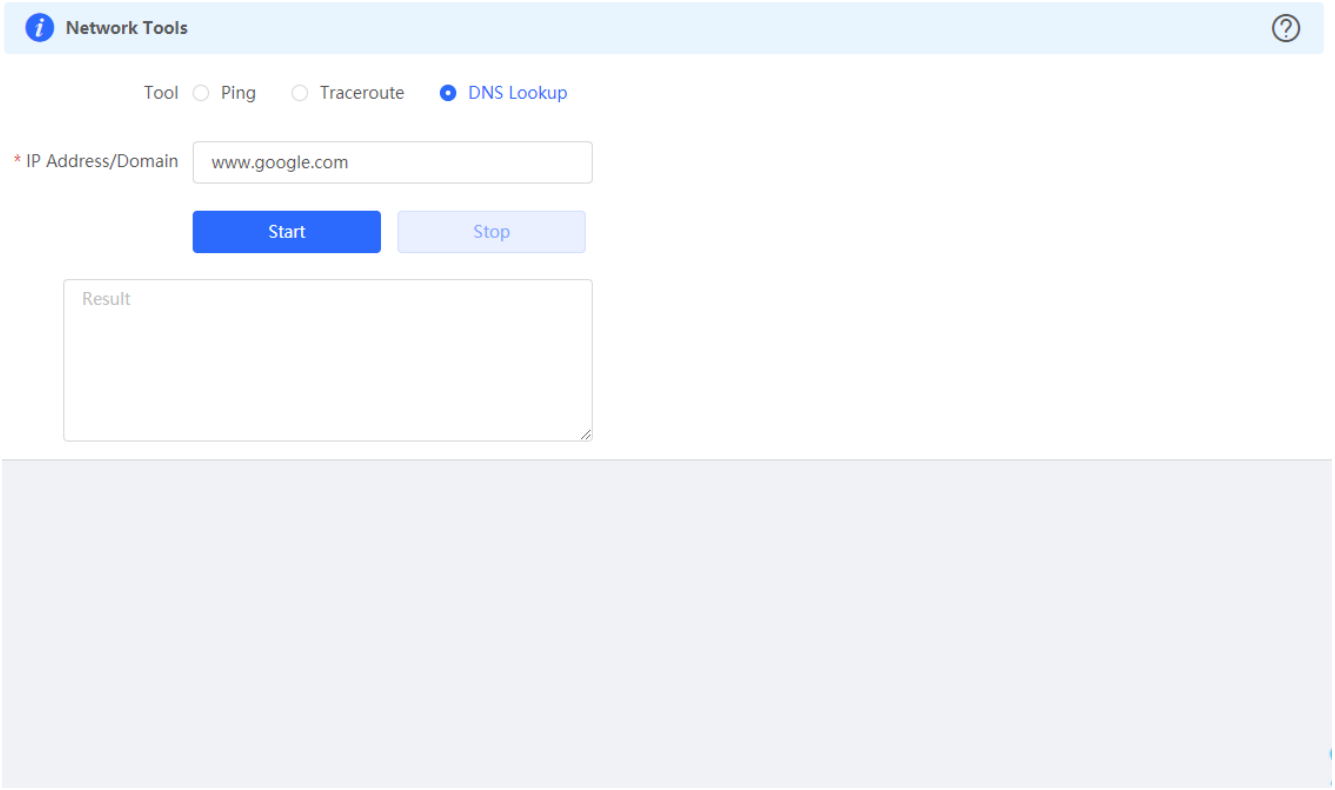


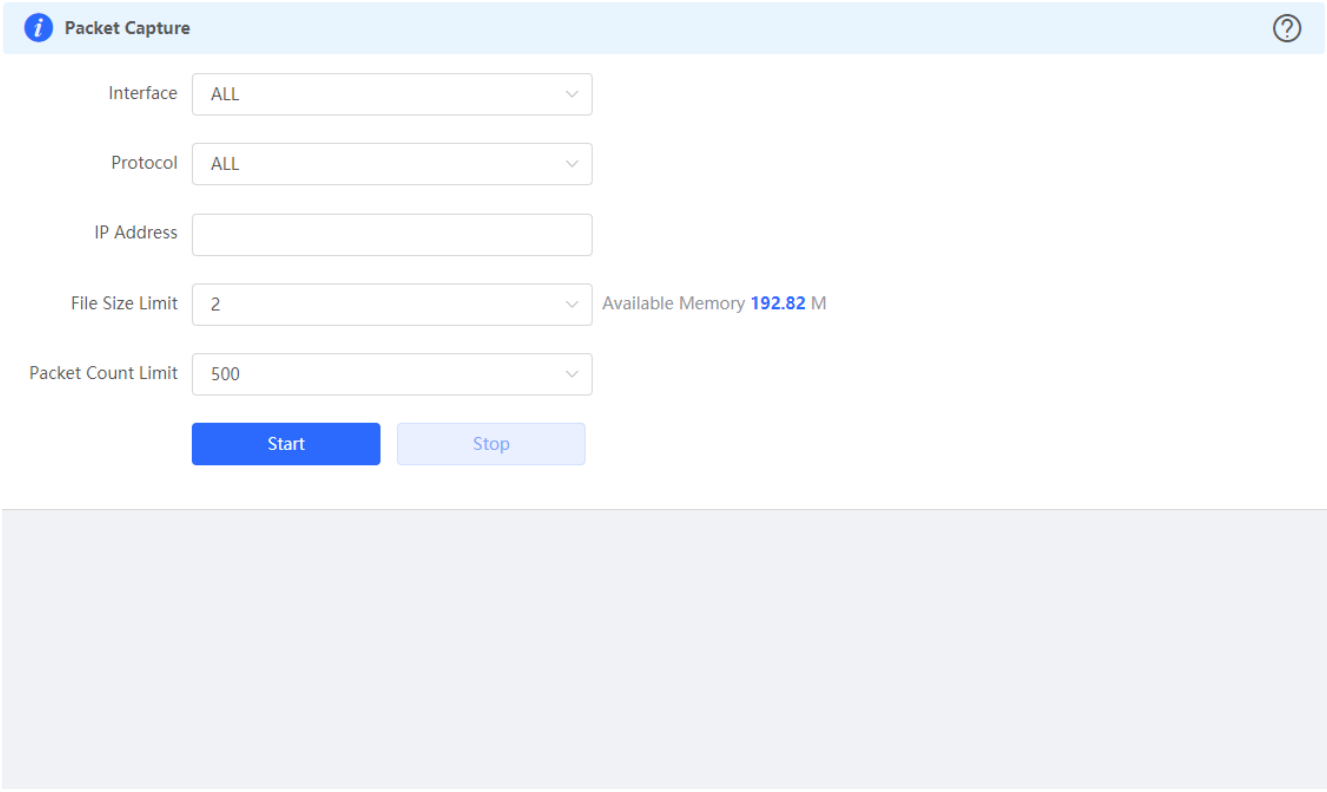
Figure 3-5-52 DNS Lookup Test and Result



3.5.6.4 Packet Capture

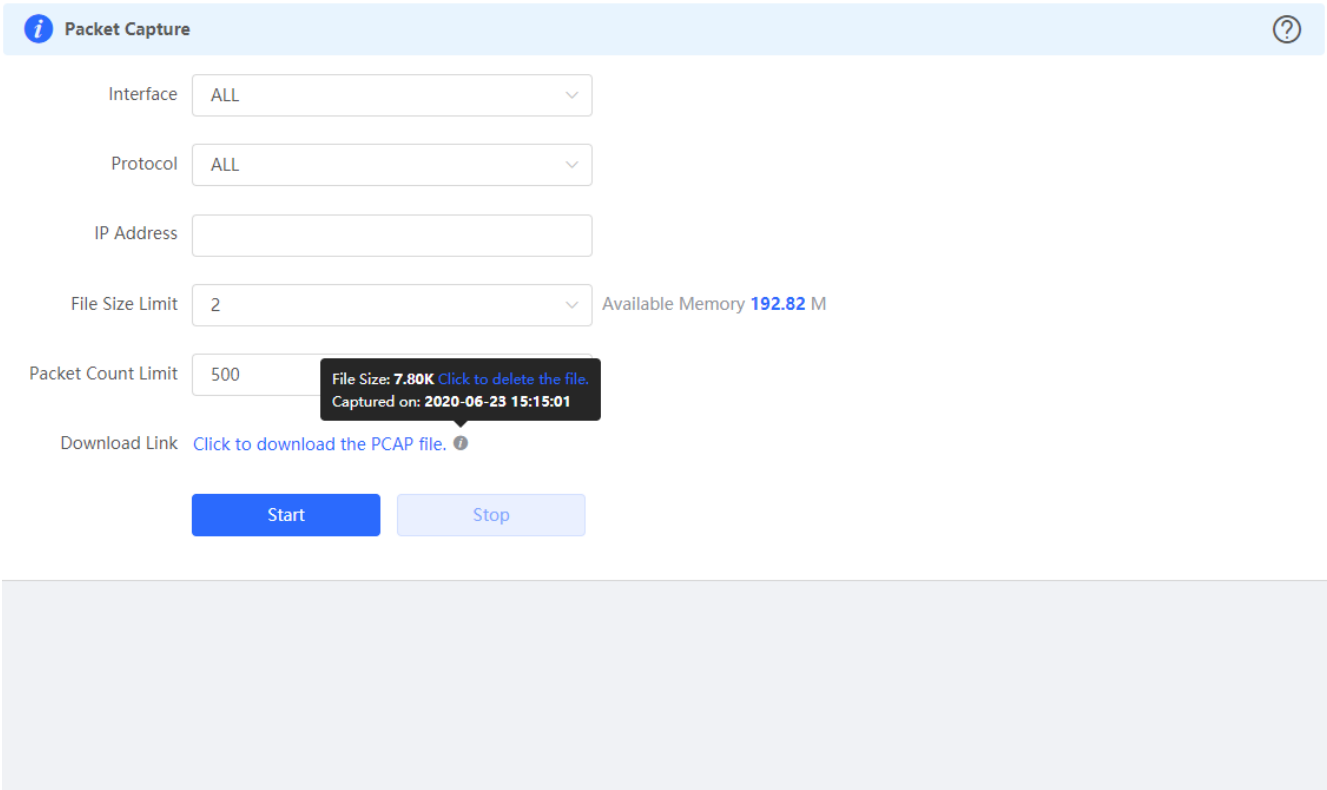
The **Packet Capture** module allows you to perform packet capture and download the result for troubleshooting.

Figure 3-5-53 Packet Capture



Specify an IP address and click **Start**. After a few seconds, click **Stop**.

Figure 3-5-54 Start Packet Capture



Click to download the packet capture result in the PCAP format.

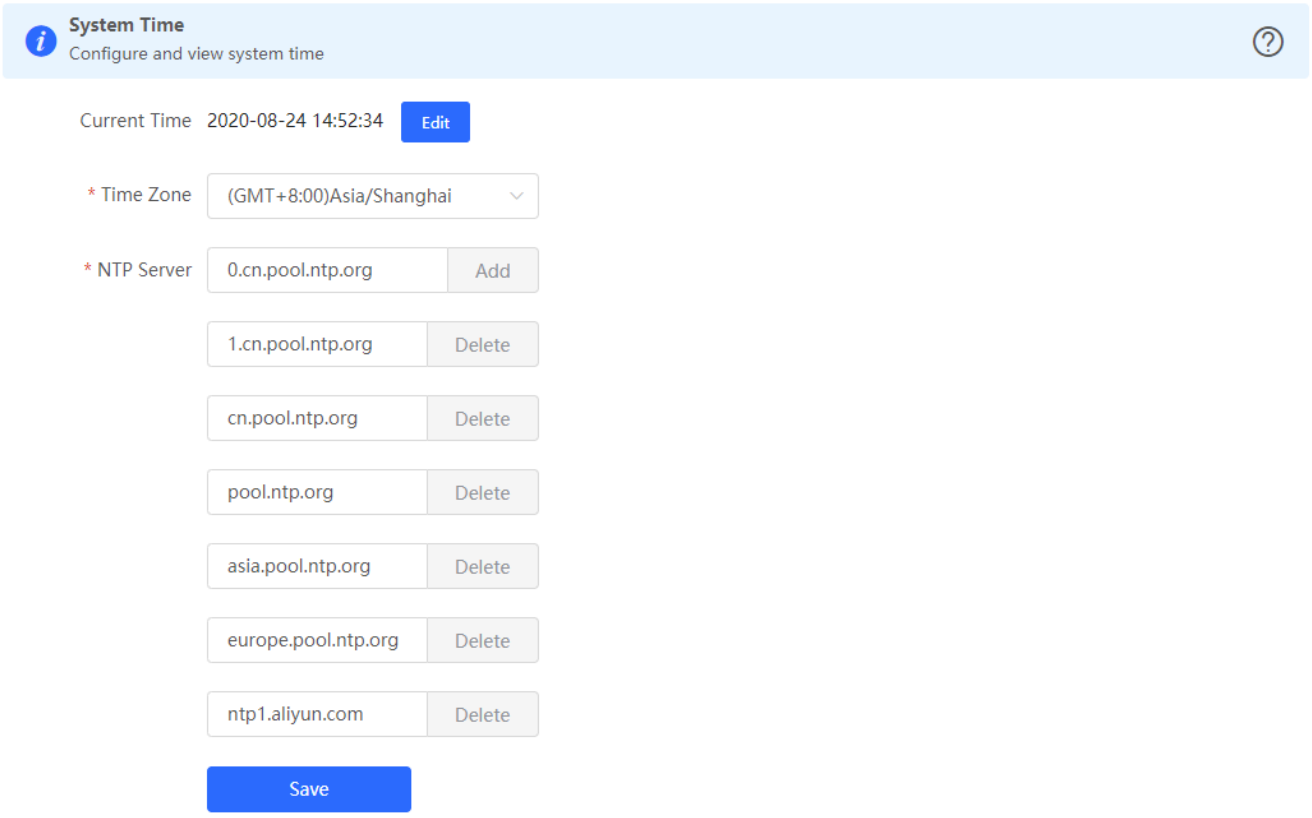
3.5.7 System

3.5.7.1 System Time

The **System Time** module allows you to set the system time. The system time is synchronized with the NTP server by default.

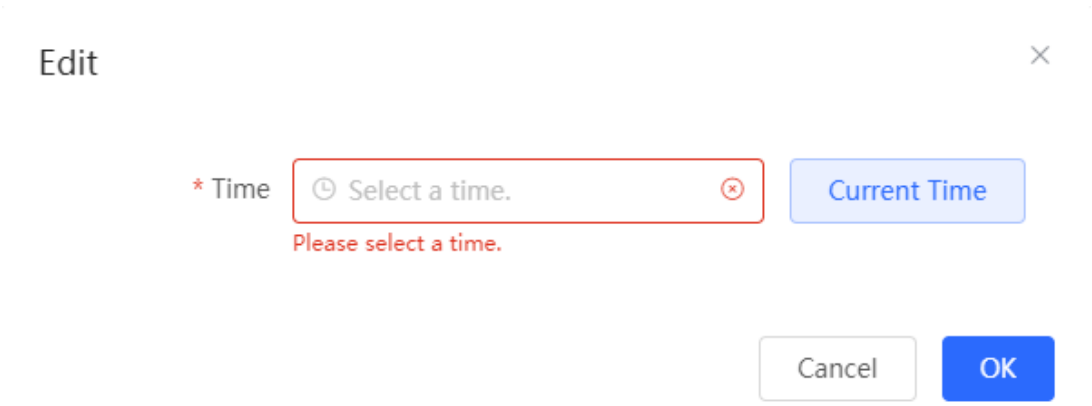
Select a time zone and set at least one NTP server, and click **Save**.

Figure 3-5-55 Synchronized with NTP Server



Alternatively, Click E**dit**, select a data and a time and click **OK**.

Figure 3-5-56 Manually Set Time



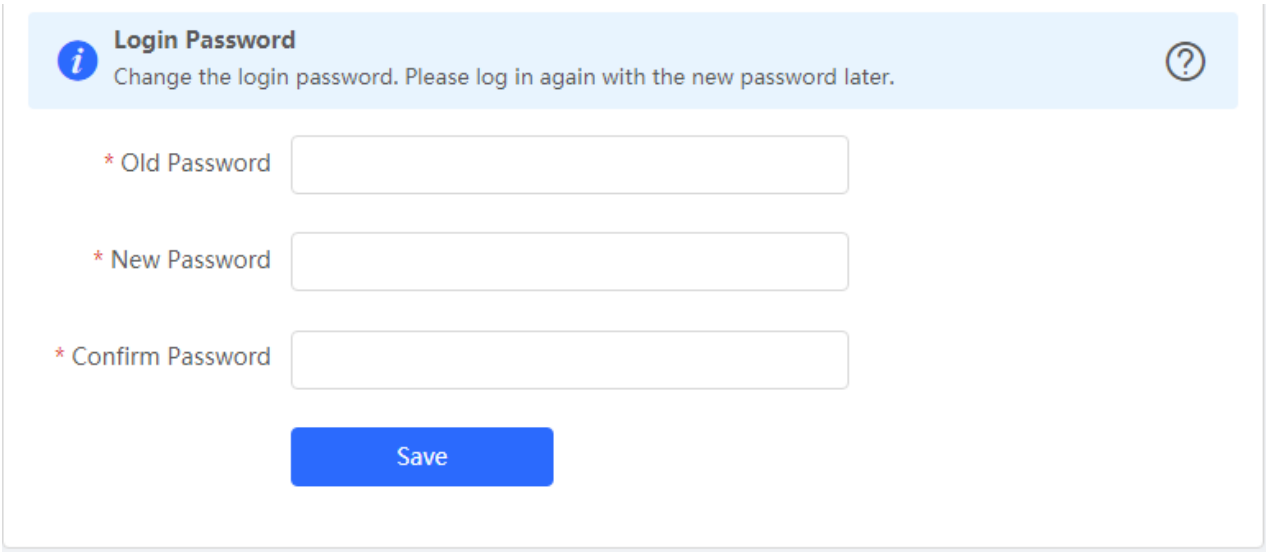
3.5.7.2 Login

The **Login** module contains **Login Password** and **Session Timeout** settings.

3.5.7.2.1 Login Password

The **Login Password** module allows you to set the device's login password. You need to log into the system again after changing the password.

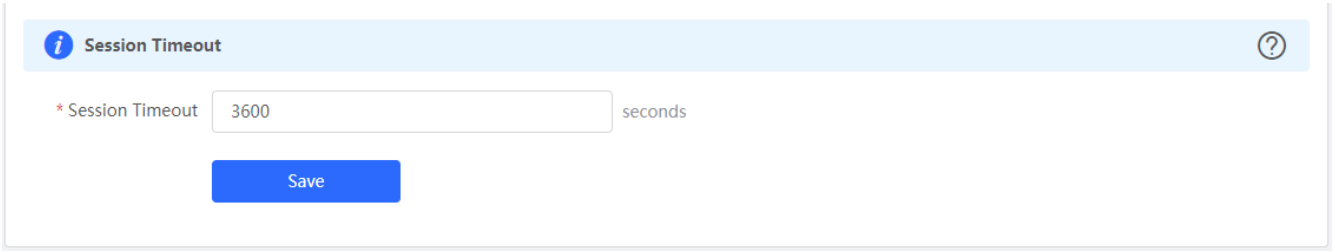
Figure 3-5-57 Login Password



3.5.7.2.2 Session Timeout

The **Session Timeout** module allows you to set the session timeout period for login to the eWeb management system.

Figure 3-5-58 Session Timeout

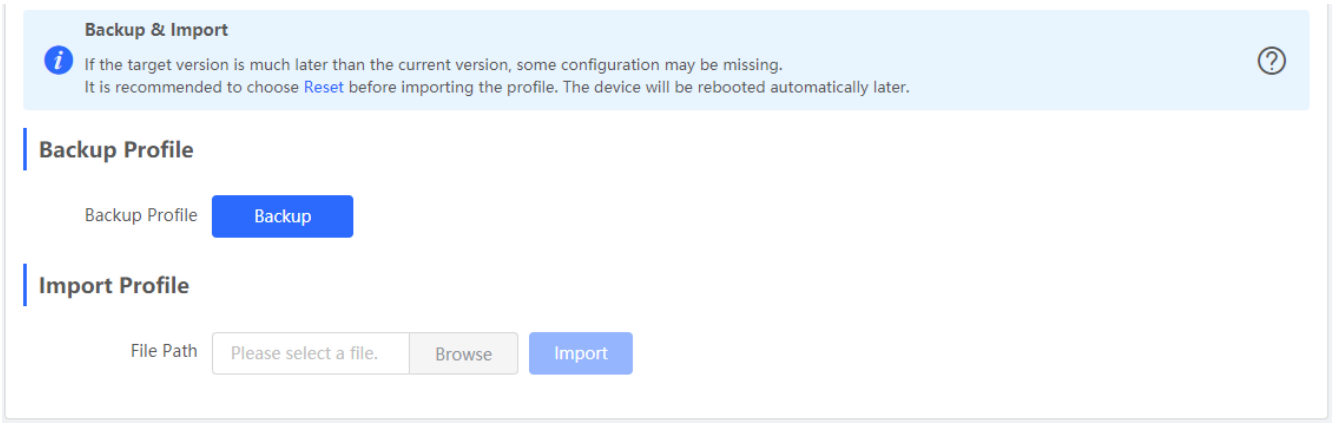


3.5.7.3 Management

3.5.7.3.1 Backup & Import

The **Backup & Import** module allows you to import a configuration file and apply the imported settings. It also allows exporting the configuration file to generate a backup.

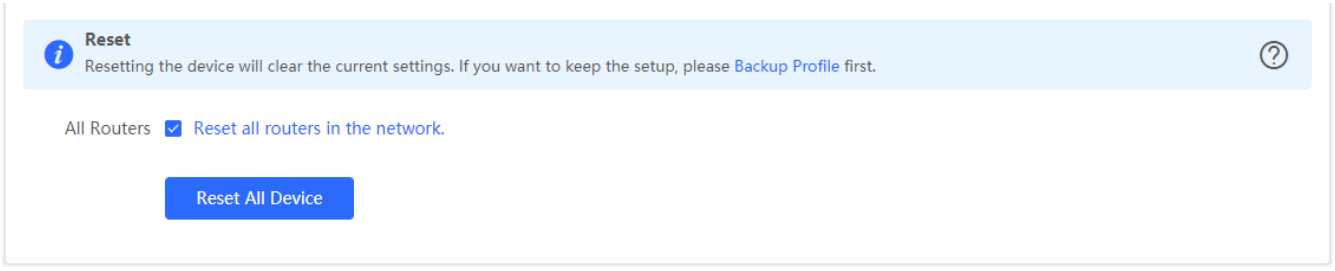
Figure 3-5-59 Backup & Import



3.5.7.3.2 Reset

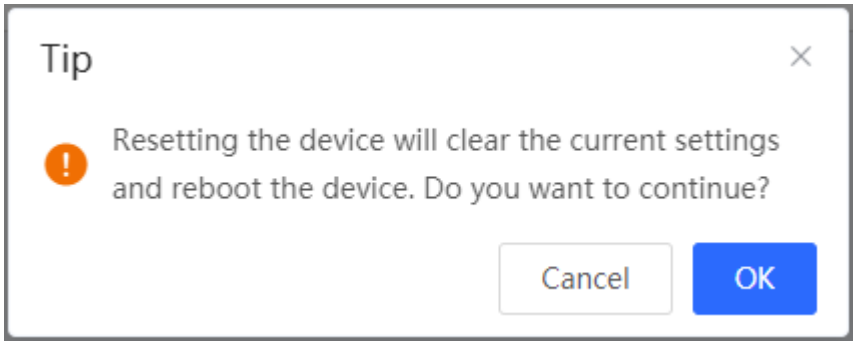
The **Reset** module allows you to reset the device to factory settings.

Figure 3-5-60 Reset



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

Figure 3-5-61 Confirm Restore



Click **OK** to restore all default values. This function is recommended when the network configuration is incorrect or the network environment is changed.

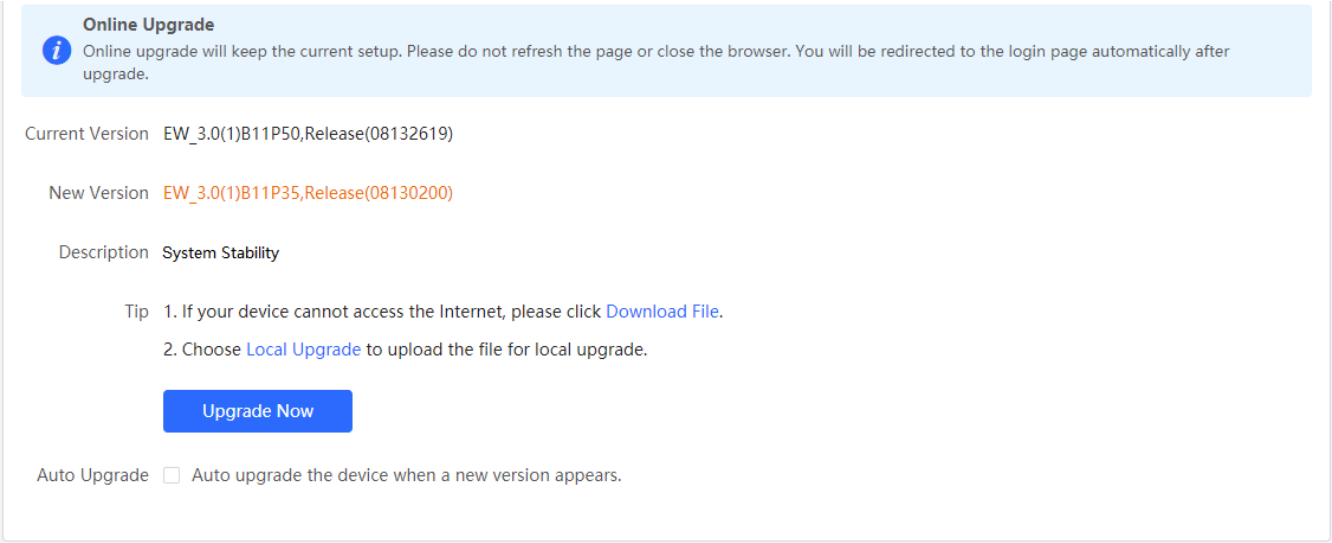
3.5.7.4 Upgrade

Both online upgrade and local upgrade are available

3.5.7.4.1 Online Upgrade

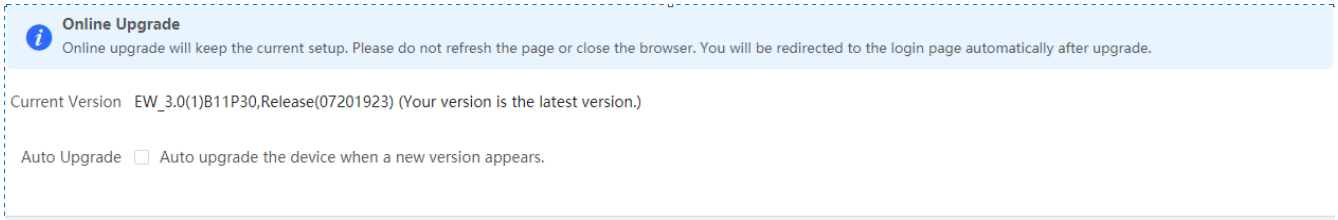
Click **Upgrade Now**. The device downloads the upgrade package from the network, and upgrades the current version. The upgrade operation retains configuration of the current device. Alternatively, you can select **Download File** to the local device and import the upgrade package on the **Local Upgrade** page.

Figure 3-5-62 Online Upgrade



If there is no available new version, the device displays a prompt indicating that the current version is the latest.

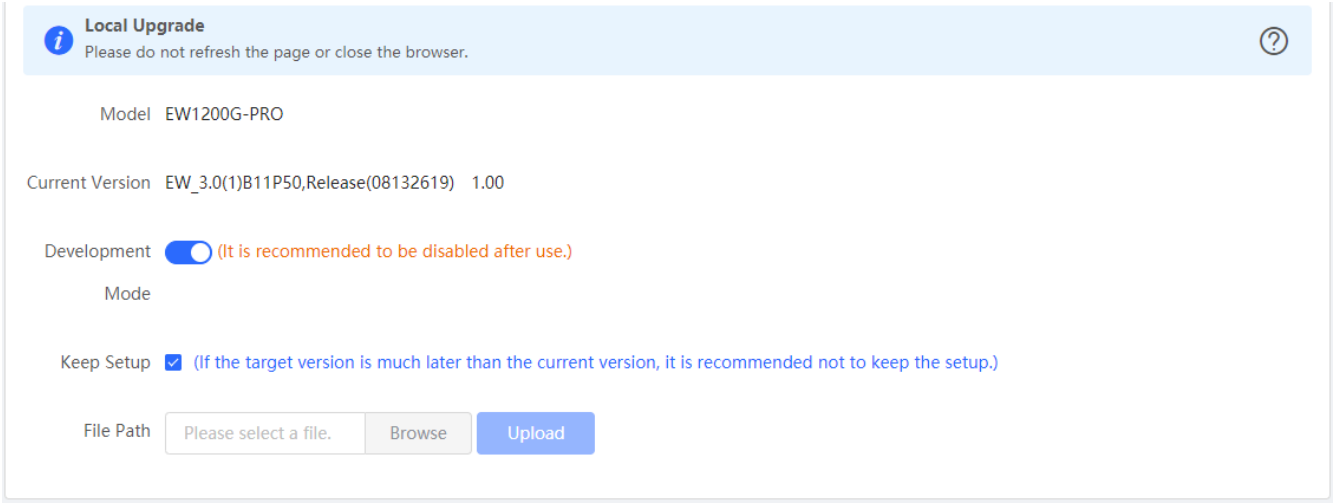
Figure 3-5-63 Latest Version



3.5.7.4.2 Local Upgrade

Click **Browse** to select an upgrade package, and click **Upload**. After uploading and checking the package, the device displays the upgrade package information and a prompt asking for upgrade confirmation. Click **OK** to start the upgrade.

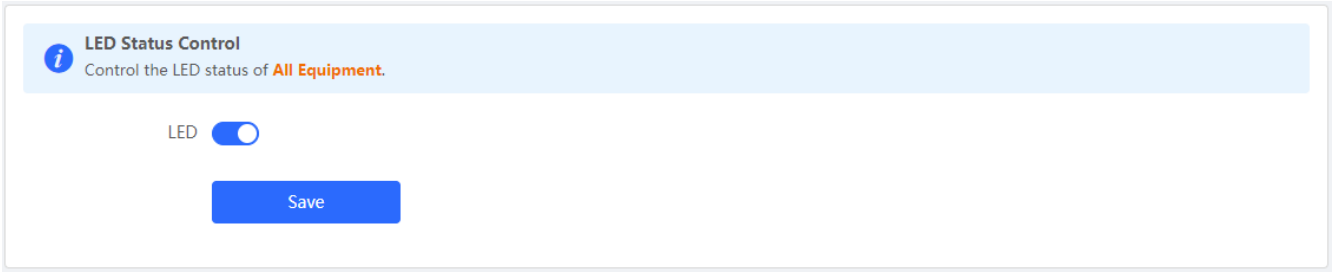
Figure 3-5-64 Local Upgrade



3.5.7.5 LED

The **LED** module allows you to enable LED.

Figure 3-5-65 LED



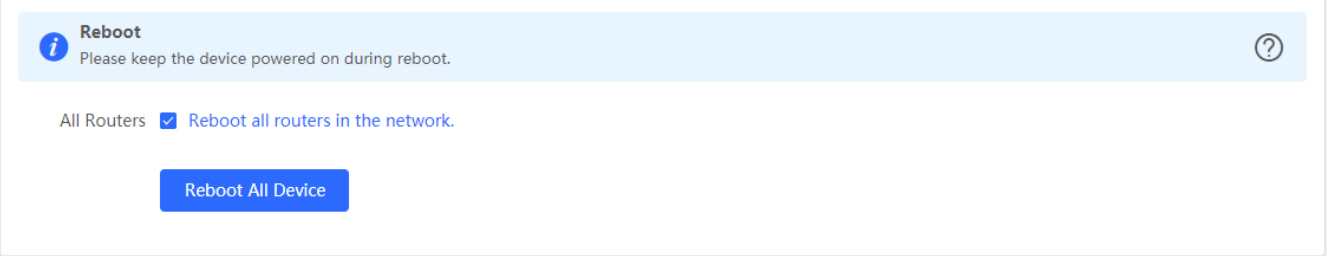
3.5.7.6 Reboot

Both immediate reboot and scheduled reboot are available.

3.5.7.6.1 Reboot

The **Reboot** module allows you to reboot the device immediately.

Figure 3-5-66 Reboot

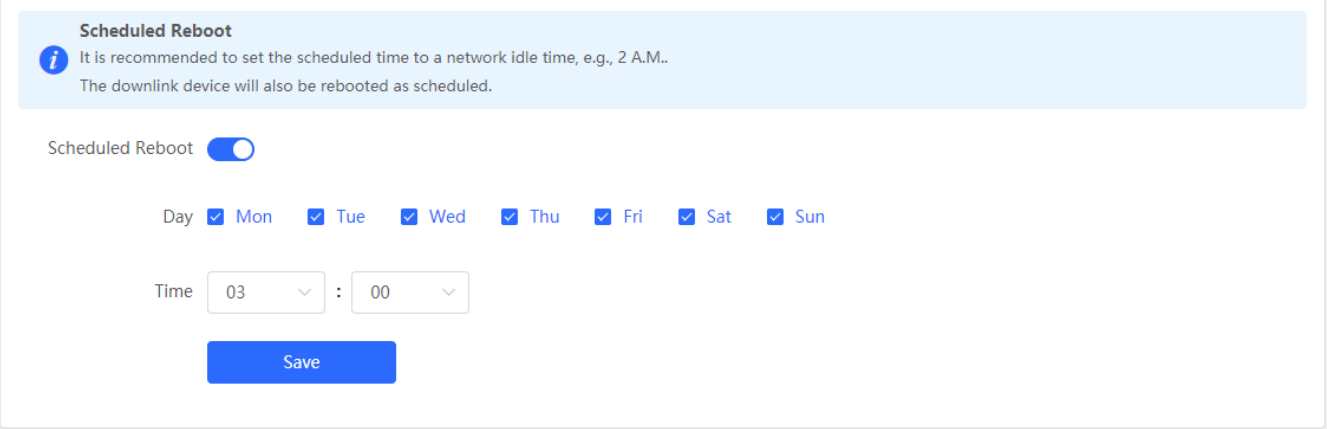


Click **Reboot**, and click **OK** in the confirmation box. The device is rebooted and you need to log into the eWeb management system again after the reboot. Do not refresh the page or close the browser during the reboot. After the device is successfully rebooted and the eWeb service becomes available,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

3.5.7.6.2 Scheduled Reboot

The **Scheduled Reboot** module allows you to reboot the device at a scheduled time.

Figure 3-5-67 Scheduled Reboot



Enable scheduled reboot, select the time and click **Save**.

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) Before accessing the configuration GUI, set the IP assignment mode to **Obtain an IP address automatically** (recommended), so that the server with DHCP enabled can automatically assign an IP address to the PC. To designate a static IP address to the PC, set the IP address of the PC in the same network segment as the IP address of the management interface. For example, if the default IP address of the management interface is 192.168.110.1 and the subnet mask is 255.255.255.0, set the IP address of the PC to 192.168.110.X (X is any integer ranging from 2 to 254), and the subnet mask is 255.255.255.0.

(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 is 192.168.110.1 and the default password is admin.

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 for a single IP address).