

WAVLINK



see the world

Wi-Fi 7 BE3600 Dual Band 2.5 Gigabit Mesh Router

Model: Skyline Stream 4

@WavlinkOfficial

@WavlinkTechSupport

Table of contents:

- About This Guide
 - Conventions
 - More Info
 - Speed/Coverage Disclaimer
 - Safety Instructions
 - Copyright Statement
 - WEEE Directive & Product Disposal
- Chapter 1 Basic Information
 - OVERVIEW
 - BASIC INFO
 - LED INDICATOR
- Chapter 2 Initial Setup Guide
 - Prepare the Modem
 - Install Your Router
 - Configure the Router via Web Browser
- Chapter 3 Network Management
 - Network Setting
 - Connection Configuration
 - Advanced Configuration
 - PPPoE Advanced Configuration
 - LAN Setting
 - Setting Static IP Binding
 - Setting IPv6
 - IPTV Setting
 - Configuring IPTV
 - Setting Dynamic DNS
 - Mode Selection
 - Router Mode
 - LAN Bridge(AP Mode)
 - Repeater Mode
 - SQM QoS
 - URL Filter
- Chapter 4 Managing Wireless Network
 - Wireless
 - Configuring Wireless Network

- Advanced Settings
- Schedule (Wireless Timer Switch)
- Guest Wi-Fi
- Parental Wi-Fi
- Chapter 5 Mesh
 - Mesh Configuration
 - Adding New Mesh Device
 - Advanced Settings
 - Topology Map
- Chapter 6 Net Guardian
 - Secure DNS
 - AdGuard Home
 - Initial Settings
- Chapter 7 NAT Forwarding
 - UPnP Settings
 - Port Forwarding
 - DMZ
 - Hardware NAT
- Chapter 8 Network Security
 - Firewall
 - ALG Configuration
 - MAC Filter
- Chapter 9 VPN Server and Client
 - VPN Server and Client
 - VPN Server Configuration
 - Open VPN Server Configuration
 - Use WireGuard VPN Server
 - VPN Client Configuration
 - PPTP/L2TP VPN Client Configuration
 - OpenVPN Client Configuration
 - WireGuard VPN Client Configuration
 - ZeroTier Configuration
- Chapter 10 Remote Access
 - Remote Web Access
 - Cloud APP
- Chapter 11 NET Tools
 - Network Check

- Diagnostics
- Wake-On-LAN
- Chapter 12 System Setting
 - Firmware Upgrade
 - Local Upgrade
 - Online Upgrade
 - Change Password
 - System Log
 - Time Zone
 - Led Control
 - Backup & Restore
 - Backup the current configuration of the router
 - Restore the router's configuration:
 - Reset the router to the default factory settings
 - Scheduled Reboot
 - Set Scheduled Reboot Plan
- Chapter 13 Logoff
 - Logoff
- Chapter 14 FAQ
 - FAQ
 - Q1. Why doesn't the login page appear after entering <http://wavlogin.link> ?
 - Q2. What should I do if I can't access the Internet?
 - Q3. How can I restore the router to its factory default settings?
 - Q4. What can I do if I forget my Administration Management password?
 - Q5.What can I do if I forget my wireless network password?
 - Q6. How to deploy the router to get the best Wi-Fi signal?
 - GNU General Public License Notice
 - After-sales Service
- Chapter 15 After-sales-Service_CE_FCC
 - Safety and Emission Statement

About This Guide

This guide is a complement to Quick Installation Guide. The Quick Installation Guide provides instructions for quick internet setup, while this guide contains details of each function and demonstrates how to configure them.

When using this guide, please notice that features of the router may vary slightly depending on the model and software version you have, and on your location, language, and internet service provider. All screenshots, images, parameters and descriptions documented in this guide are used for demonstration only.

Conventions

In this guide the following conventions are used :

Convention	Description
<u>Underlined</u>	Underlined words or phrases are hyperlinks. You can click to redirect to a website or a specific section.
Teal	The content and text that needs to be emphasized on the web page is the theme color #1D428A , including menus, items, buttons, etc.
>	The menu structures to show the path to load the corresponding page. For example, More > Network > Mode Selection means the Mode Selection function page is under the Network menu that is located in the More tab.
Note:	Do not ignore this type of comment, it is to remind you to better use the device, to avoid the operation of the error that will cause the function to be invalid.
Tips:	Indicates important information that helps you make better use of your device.

More Info

The latest software, management app and utility are available from the Download Center at <https://docs.wavlink.xyz/Firmware/> .

A quick installation guide can be found in this guide.

Specifications can be found on the product page at <https://docs.wavlink.xyz/>.

If you encounter any issues, please don't hesitate to email contact@wavlink.com to provide feedbacks or contact online customer service, thank you !

Speed/Coverage Disclaimer

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.

Information in this document is subject to change without notice. The manufacturer does not make any representations or warranties (implied or otherwise) regarding the accuracy and completeness of this document and shall in no event be liable for any loss of profit or any commercial damage, including but not limited to special, incidental, consequential, or other damage.

Safety Instructions

Always read the safety instructions carefully.

Keep this Quick Start Guide for future reference.

Keep this equipment away from humidity.

If any of the following situation arises, get the equipment checked by a service technician:

☐ The equipment has been exposed to moisture.

☐ The equipment has been dropped and damaged.

☐ The equipment has an obvious sign of breakage.

☐ The equipment has not been working well or you cannot get it work according to Quick start Guide.

Copyright Statement

No part of this publication may be reproduced in any form by any means without the prior written permission.

Other trademarks or brand names mentioned herein are trademarks or registered trademarks of their respective companies.

WEEE Directive & Product Disposal

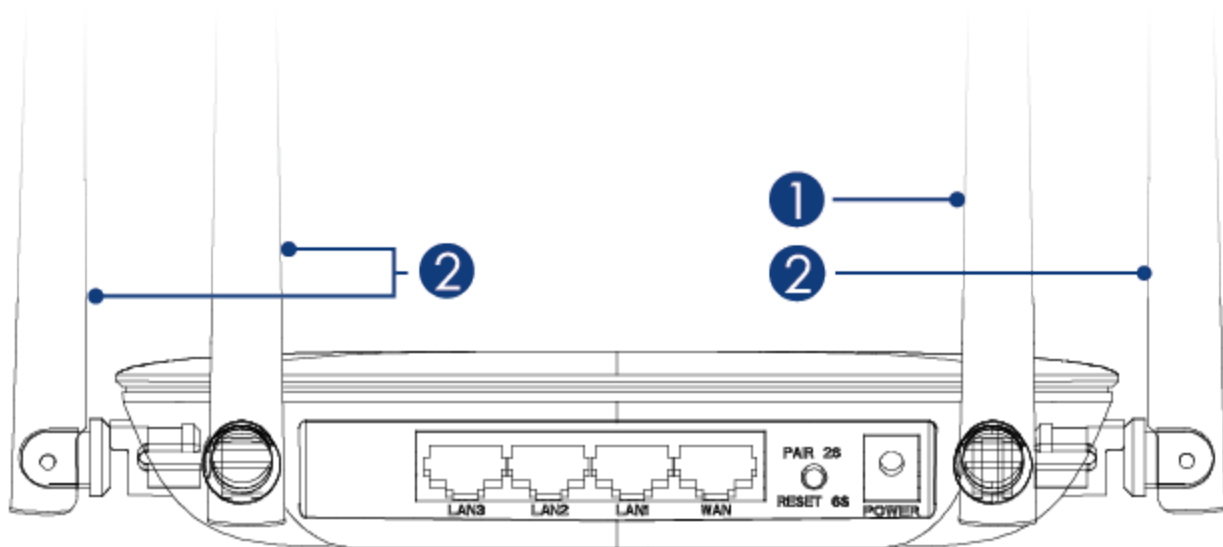
At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronic equipment, or returned to the supplier for disposal.

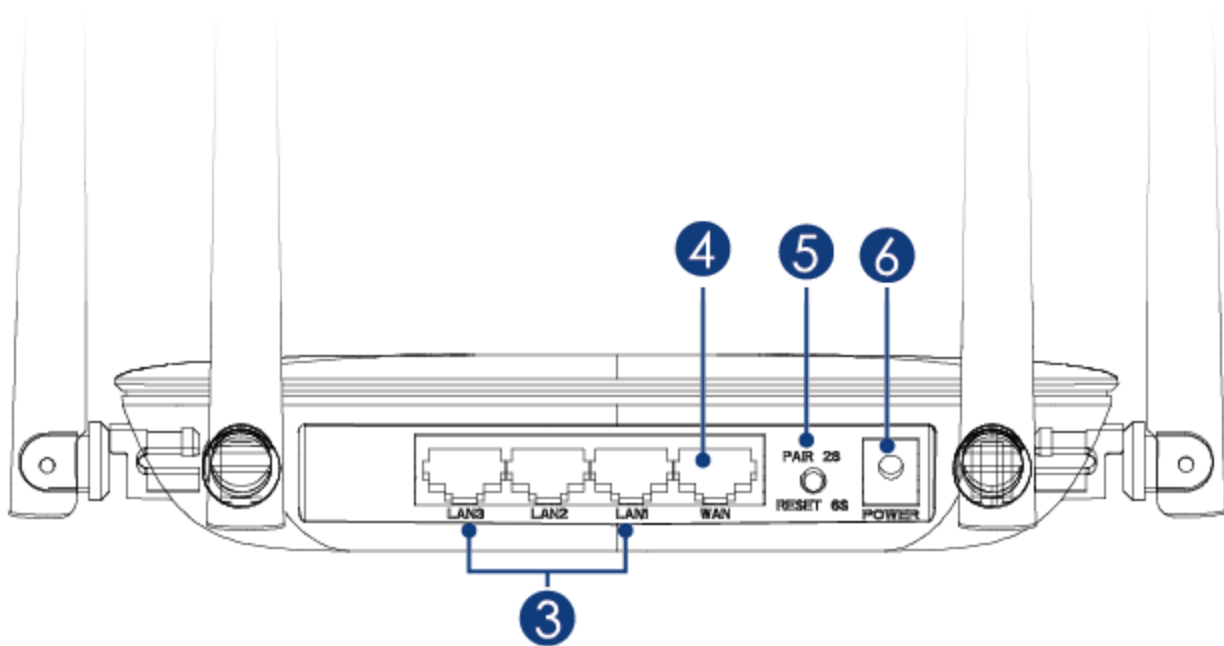


Chapter 1 Basic Information

- [OVERVIEW](#)
- [BASIC INFO](#)
- [LED INDICATOR](#)

OVERVIEW





- ① 2.4G Antenna
- ② 5G Antenna
- ③ 3 x Gigabit LAN Port
- ④ 1 x Gigabit WAN Port
- ⑤ PAIR/RESET
- ⑥ DC IN

BASIC INFO

2.4G SSID: WAVLINK-Mesh_XXXX

5G SSID: WAVLINK-Mesh_XXXX

Default IP: 192.168.20.1

Login: <http://wavlogin.link>

LED INDICATOR

Mode	Description
Router Mode	Solid on: The Internet connected Fast Blinking: No Internet Connected Slow Blinking: In pairing
Repeater Mode	Solid on: The Internet connected Slow Blinking: Parent router connected but the Internet disconnected Fast Blinking: Parent router disconnected
AP Mode	Solid on: The Internet connected Fast Blinking: No Internet connected Slow Blinking: In pairing

Chapter 2 Initial Setup Guide

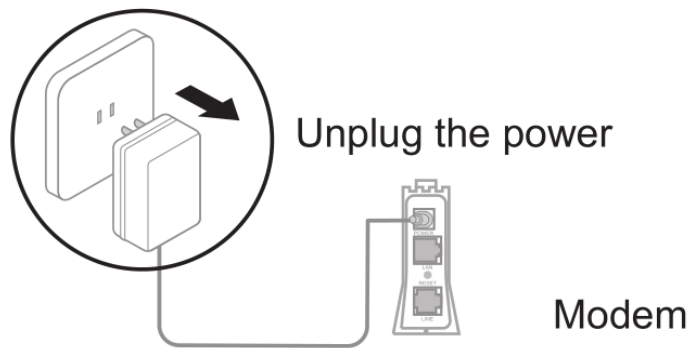
This chapter contains the following sections :

- [Prepare the Modem](#)
- [Install Your Router](#)
- [Configure the Router via Web Browser](#)

Prepare the Modem

1. Unplug the power adapter from your DSL modem. If the modem has backup battery, please remove it.

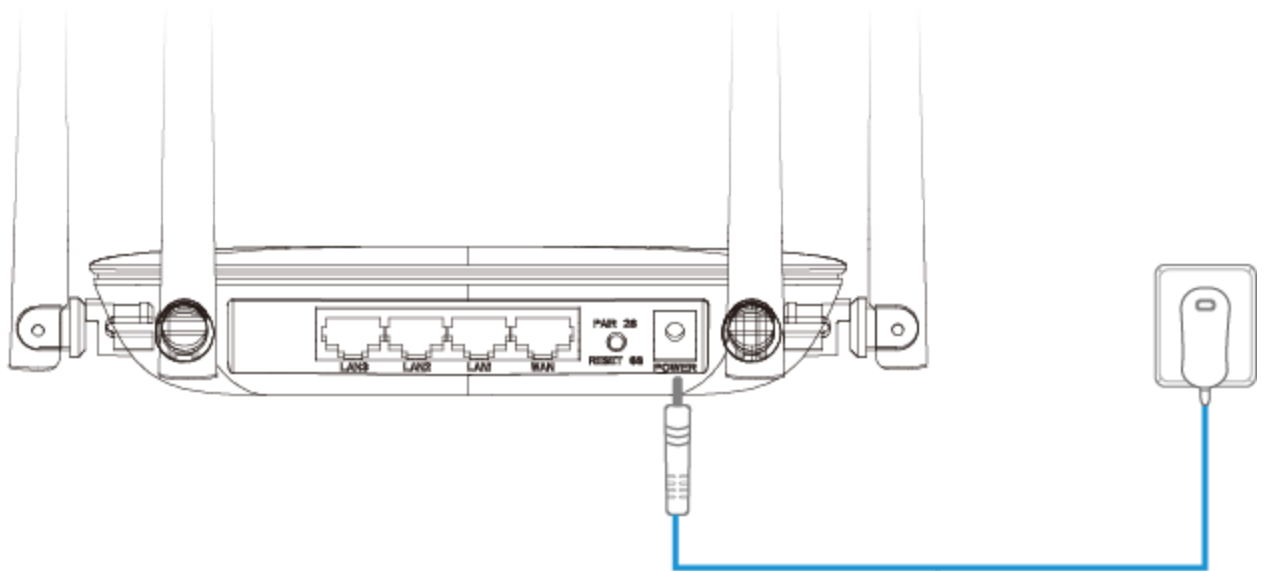
Note : If using a DSL Internet connection, obtain the login credentials(username/password) from your Internet Service Provider (ISP) to properly configure your wireless router.



2. Use the provided Ethernet cable to connect the modem to the WAN port of the router.
3. Plug the modem into a power outlet and turn it on.
4. Check the indicator lights on the modem to confirm a stable internet connection.

Install Your Router

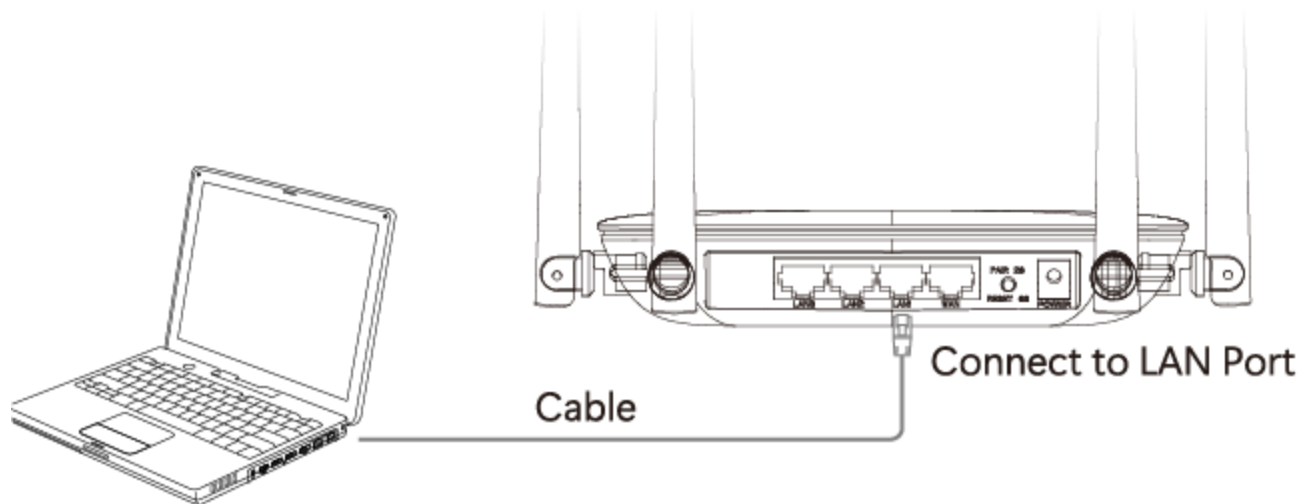
1. Insert the power adapter into the router's DC IN port and press the power switch (if applicable; some models lack a physical switch).



2. Wait for about 2-3 minutes, then the router is ready.

Configure the Router via Web Browser

1. **Wired Connection:** Use another Ethernet cable to connect your computer to one of the LAN ports on the router.



2. **Wireless Connection:** On your laptop or smartphone, connect to the default SSID printed on the router: **WAVLINK-Mesh_XXXX**.



For Windows Users



For Mac Users

3. Open a web browser(via wired or wireless connection) and enter <http://wavlogin.link> in the address bar. You will automatically enter the Wavlink router initial setup page. If not, manually enter **192.168.20.1** in the browser's address bar and follow the instructions.

Create Login Password

For your network security, please set a strong password

Password

The password should be at least 8 characters long. 

Confirm Password

The password should be at least 8 characters long. 

SET PASSWORD

4. It is **Router Mode** by default. Select the corresponding **WAN Type**.

WAVLINK see the world

Internet access method

WAN Type 

DHCP assigned by upstream device.

Internet VLAN ID ☐

Custom MTU ☐

MAC Clone ☐

MAC Clone:
If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

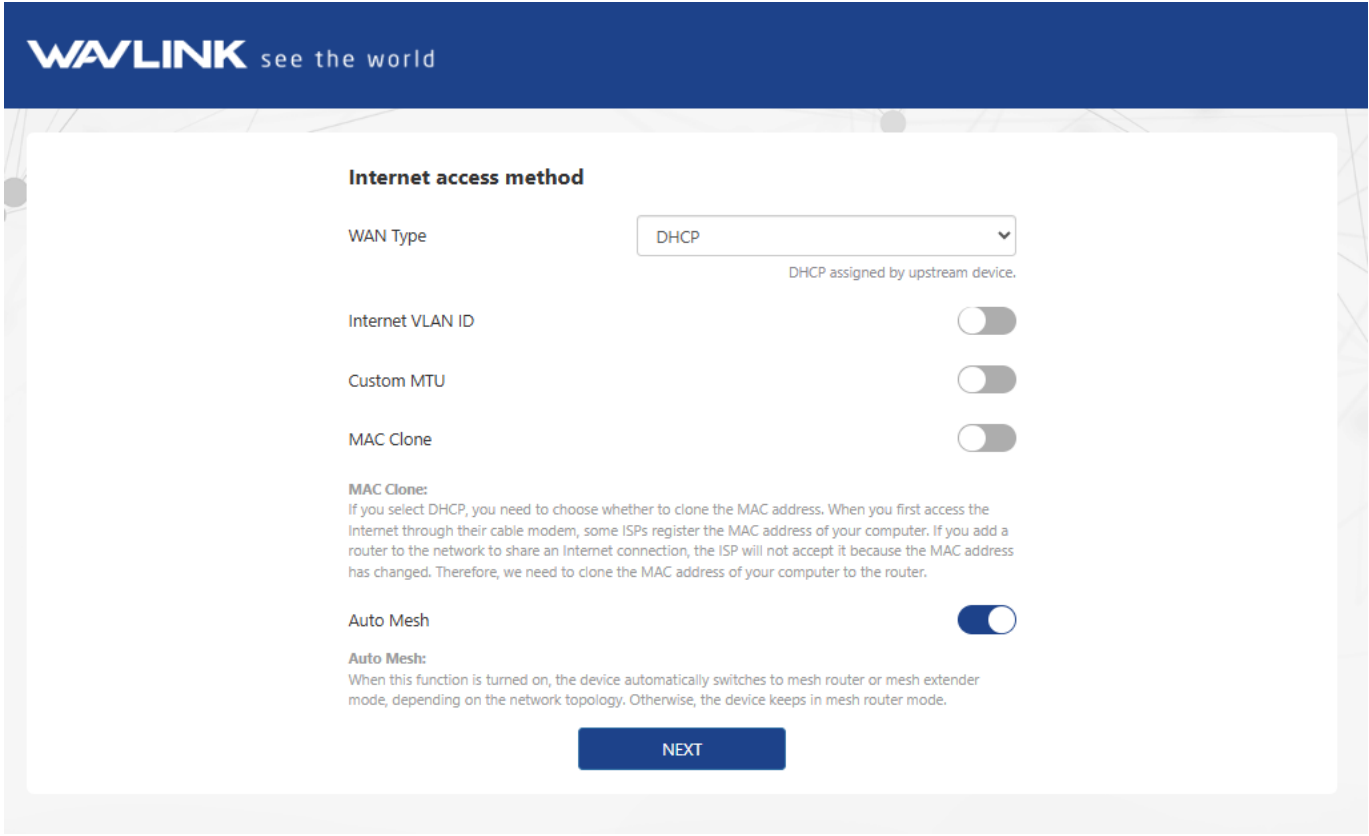
Auto Mesh ☒

Auto Mesh:
When this function is turned on, the device automatically switches to mesh router or mesh extender mode, depending on the network topology. Otherwise, the device keeps in mesh router mode.

NEXT

① If you choose **DHCP**, you will need to decide whether to enable the MAC clone. Some ISPs register the MAC address of your computer when you firstly access the

Internet through their cable modem, we need to clone the MAC address of your computer to the router. The **Custom MTU(Maximum Transmission Unit)** is the largest size of a data packet that can be transmitted over the network. If your ISP requires you to adjust the MTU size, enable this option. Otherwise, we recommend you to keep it disabled for optimal network performance.



The screenshot shows the 'Internet access method' configuration page for a Wavlink router. The page has a dark blue header with the 'WAVLINK see the world' logo. The main content area is white and contains several settings:

- Internet access method**: A section header.
- WAN Type**: A dropdown menu currently set to 'DHCP'. Below it, a note says 'DHCP assigned by upstream device.'
- Internet VLAN ID**: A toggle switch, currently turned off.
- Custom MTU**: A toggle switch, currently turned off.
- MAC Clone**: A toggle switch, currently turned off.
- MAC Clone:** A sub-section with explanatory text: 'If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.'
- Auto Mesh**: A toggle switch, currently turned on.
- Auto Mesh:** A sub-section with explanatory text: 'When this function is turned on, the device automatically switches to mesh router or mesh extender mode, depending on the network topology. Otherwise, the device keeps in mesh router mode.'
- NEXT**: A blue button at the bottom of the configuration area.

② If you choose **PPPoE**, enter the **Username** and **Password** provided by your ISP. PPPoE is usually designed for such as DSL or fiber optics.

Internet access method

WAN Type

Username

Password

[Get PPPoE Username and Password From Old router](#)

Internet VLAN ID ☐

Custom MTU ☐

MAC Clone ☐

MAC Clone:
If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Auto Mesh ☒

Auto Mesh:
When this function is turned on, the device automatically switches to mesh router or mesh extender mode, depending on the network topology. Otherwise, the device keeps in mesh router mode.

NEXT

- ③ If you choose **Static IP**, enter a specified IP parameters including IP address, Subnet Mask, Gateway, DNS1 and DNS2 provided by your ISP.

Internet access method

WAN Type Static IP

IP

Subnet Mask

Gateway

DNS1

DNS2

Internet VLAN ID ☐

Custom MTU ☐

MAC Clone ☐

MAC Clone:
If you select DHCP, you need to choose whether to clone the MAC address. When you first access the Internet through their cable modem, some ISPs register the MAC address of your computer. If you add a router to the network to share an Internet connection, the ISP will not accept it because the MAC address has changed. Therefore, we need to clone the MAC address of your computer to the router.

Auto Mesh ☒

Auto Mesh:
When this function is turned on, the device automatically switches to mesh router or mesh extender mode, depending on the network topology. Otherwise, the device keeps in mesh router mode.

NEXT

5. Click **NEXT**.

6. Choose **Country/Region** and **Time Zone**, and set **Wi-Fi Name** and **Wi-Fi Password**.

WAVLINK see the world

Country code/Time zone

Country/Region Global

Time Zone (UTC-00:00) Dublin, Edinburgh, Lisbon, London

Wi-Fi Settings

Dual-band convergence ☒

Wi-Fi Name WAVLINK-Mesh_3162
Using identical names for 2.4GHz and 5GHz Wi-Fi.

Wi-Fi Password 8 to 30 characters(Same as the management)

Device management password Same as the Wi-Fi password ☒

BACK **SAVE**

7. Click **SAVE** and wait the settings to be successfully applied. Then use the new Wi-Fi password to reconnect to the network.

Settings have been successfully applied. Please wait for the setup to complete. Use the new Wi-Fi password to reconnect to the network.

Wi-Fi Name:

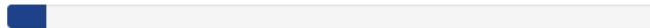
WAVLINK-Mesh_3162

Wi-Fi Password:

*****📶



Scan the QR code to download the WavRouter APP for easier router management



6%,Please wait...

Chapter 3 Network Management

This chapter contains the following sections :

- [Network Setting](#)
- [LAN Setting](#)
- [Setting Static IP Binding](#)
- [Setting IPv6](#)
- [IPTV Setting](#)
- [Setting Dynamic DNS](#)
- [Mode Selection](#)
- [SQM QoS](#)
- [URL Filter](#)

Network Setting

The way of network access can be changed as your requirement through configuring the network setting.

Connection Configuration

1. Access **Network** setting or **More>Network>Network Setting**.

2. Select your network connection way from the **WAN Type** list.

1) DHCP(Dynamic Host Configuration Protocol)

- It assigns network information including IP, Subnet Mask, default Gateway and others for the computer, designed for small network environments such as a home or a small office, managing and assigning IP without manual configuration.
- If the ISP(Internet Service Provider) has provided Auto Assign Feature for you, select DHCP from the WAN Type list.

Internet

WAN Type

DHCP



2) PPPoE(Point-to-Point Protocol over Ethernet)

- It functions as a secure connection constructor, including verifying user identity, assigning IP, and others. It is designed for broadband access methods such as ADSL, fiber optics and others to provide a secure network connection.
- If the ISP has provided a **Username** and **Password** for you, enter them after selecting PPPoE from **WAN Type** list, then select **CONNECT**.

Internet

WAN Type

PPPoE

Username

Password

Disconnected

DISCONNECT

CONNECT

3) Static IP

- It assigns fixed IP address for the computer automatically. It is designed for network connections, servers, remote access, etc., which require long-term stability to ensure the stability of network connections.
- If the ISP has provided a specific IP parameters including IP address, Subnet Mask, Gateway, DNS1 and DNS2, select Static IP from the list and enter the information provided by the ISP.

Internet

WAN Type

Static IP

IP

Subnet Mask

Gateway

DNS1

DNS2(Optional)

4) PPPoE Dual Access

- Using dual PPPoE broadband lines, PPPoE Dual Access achieves balanced distribution via the technology of Load Balancing. Designed for improving the network

bandwidth and stability, so it is for the occasion that requires large data transmission.

- Enter the account and password provided by the ISP in **Username** and **Password**. Then select **DHCP** or **Static IP** from **Second WAN** list, one note is that **IP** and **Subnet Mask** are required for **Static IP**. Click **CONNECT**

Internet

WAN Type

PPPoE Dual Access

Username

Password

Disconnected

DISCONNECT

CONNECT

Second WAN

DHCP

5) PPTP Dual Access

- PPTP Dual Access refers to the dual-network accessing method of using two PPTP VPNs. With it, users can configure two PPTP VPN to simultaneously access the Internet, enhancing the reliability of bandwidth and network.
- Enter **Username**, **Password**, **Server URL**, then select **DHCP** or **Static IP**, one note is that **IP** and **Subnet Mask** are required for selecting **Static IP**.

Internet

WAN Type

PPTP Dual Access

Username

Password

Server URL

Second WAN

DHCP

6) L2TP Dual Access

- L2TP Dual Access uses two L2TP VPN connections to access the Internet. it allows users to use two VPNs to access the Internet, enhancing the reliability of bandwidth and network.

- Enter **Username**, **Password** and **Server URL**, then select **DHCP** or **Static IP**, one note is that **IP** and **Subnet Mask** are required for **Static IP**.

Internet

WAN Type

L2TP Dual Access

Username

Password

Server URL

Second WAN

DHCP

Advanced Configuration

In **Advanced**, open and configure **Custom MTU**, **MAC Clone**, **Custom DNS** and **Internet VLAN ID** and others as your requirements.

Advanced

Server Name (Optional)

Access Concentrator Name
(Optional)

Host-Uniq Tag Content

Automatic

Leave empty unless your ISP require this

Detect Online Interval (S)

1

Timed Connection



Redial Interval (M)

0

Custom MTU



MAC Clone



Custom DNS



Internet VLAN ID



SAVE

- **Custom MTU(Maximum Transmission Unit)**
 - The Ethernet MTU(MaximumTransmission Unit) is the largest size of a data packet that can be transmitted over the network. If your ISP requires you to adjust the MTU size, enable this option. Otherwise, we recommend you to keep it disabled for optimal network performance.
- **MAC Clone**
 - The MAC clone allows you to copy the MAC address from the computer to the WAN interface of the router. When an ISP restricts internet access to a single MAC address, by cloning the MAC address of the device, the router will masquerade as an authorized device, ensuring an uninterrupted internet connection.
- **Custom DNS**
 - The custom DNS allows you to configure optimal DNS server for the network manually, instead of using the default DNS provided by the ISP.
- **Internet VLAN ID**
 - The Internet VLAN ID is set to recognize the feature of Internet data. For specific settings, please consult your network operator's customer service or technical support staff.

PPPoE Advanced Configuration

- **Server Name**
 - The Server name, provided by ISP, indicates the name or address of PPPoE server.
- **AC(Access Concentrator) Name**
 - The AC name is the name of the Access Concentrator, used to differentiate between different access points. It is typically designated by the Internet Service Provider (ISP).
- **Host-Uniq Tag Content**
 - In PPPoE protocol, the Host-Uniq field is optional, used to uniquely identify requests from a host. In the same network, it ensures every request connected is unique while using PPP to connect to multi-users, avoiding confusion and conflicts. Keep it null if your ISP doesn't provide any information about it.
- **Detect Online Interval**
 - The detect online interval is used to set the time interval for sending a message verifying link validity and data transmission capability, the appropriate interval

is helpful for timely detecting and addressing link issue.

Click **SAVE** to finish configuration.

LAN Setting

DHCP server automatically assigns IP for the devices in the LAN. If it is required, you can change its setting.

- 1 . Click **More>Network>LAN**.
- 2 . Click to enable **DHCP**.

LAN

DHCP

☒

IP

192.168.20.1

Subnet Mask

255.255.255.0

Start IP

192.168.20.100

End IP

192.168.20.249

Lease Time

1 day

▼

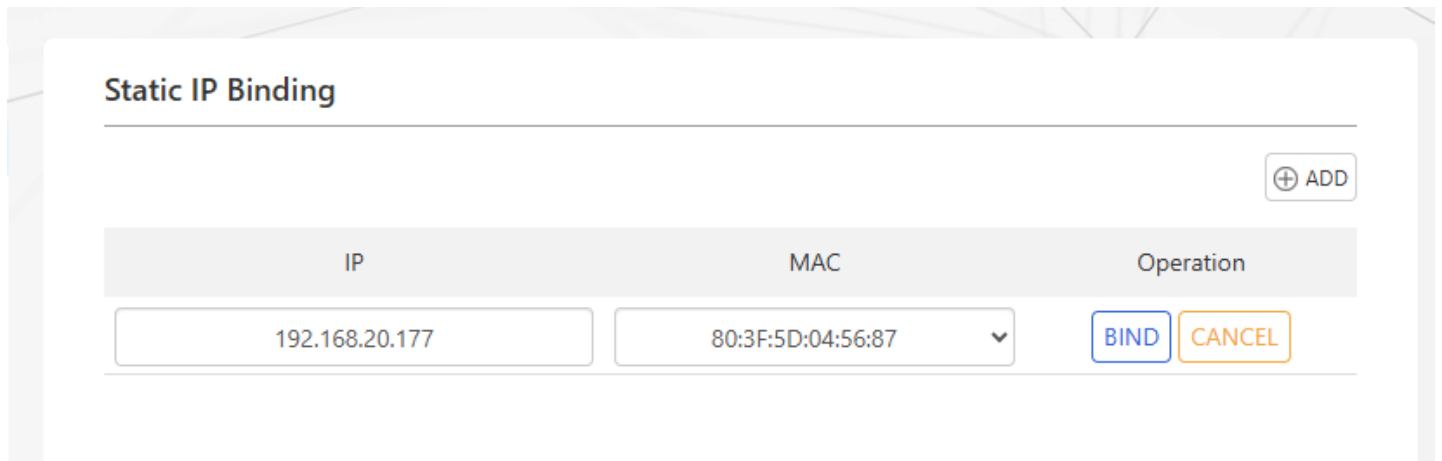
SAVE

- **IP Address:** The IP address from which the router connects to the LAN. This can be used to log in to the router's network management page.
- **Subnet Mask:** The subnet mask that the router connects to the LAN.
- **Set IP Address Pool:** When DHCP is enabled, the router automatically assigns IP addresses to devices in the LAN from the address pool. If you need to change the address pool range, modify the Start Address and End Address.
- **Lease Time:** This is the lease time of the IP address that the device obtains when accessing the router. If you need to modify it, please select it again in the Lease Time drop-down list.

- 3 . Click **SAVE** to finish the configuration.

Setting Static IP Binding

It allows you to link the specific IP to the MAC address of customer devices. Using it, you can assign a fixed IP for the specific device so that the device can automatically obtain the same IP every time it connects to the network.



The image shows a 'Static IP Binding' configuration window. At the top right is an 'ADD' button with a plus icon. Below it is a table with three columns: 'IP', 'MAC', and 'Operation'. The 'IP' column contains the text '192.168.20.177'. The 'MAC' column contains the text '80:3F:5D:04:56:87' followed by a dropdown arrow. The 'Operation' column contains two buttons: 'BIND' (blue) and 'CANCEL' (orange).

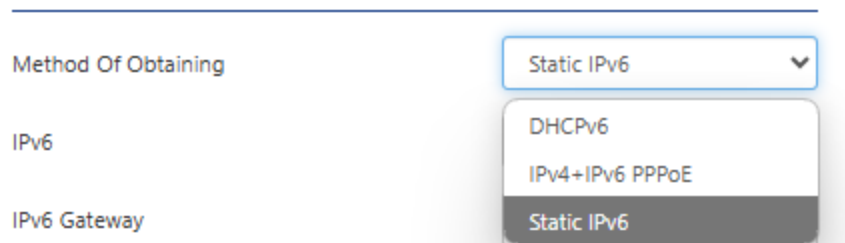
IP	MAC	Operation
192.168.20.177	80:3F:5D:04:56:87 ▼	<button>BIND</button> <button>CANCEL</button>

- 1 . Click **More>Network>Static IP Binding**.
- 2 . Click **ADD** in the top right corner to add a binding rule.
- 3 . Input the **IP** and **MAC**, then click **BIND**.

Setting IPv6

The IPv6 is the next generation Internet protocol, has more space for address, more advanced functions and enhanced security. It aims to solve more issues on interconnection devices and provide better network performance and security.

IPv6 WAN Settings



The image shows the 'IPv6 WAN Settings' configuration window. It has a 'Method Of Obtaining' dropdown menu currently set to 'Static IPv6'. Below this are fields for 'IPv6' and 'IPv6 Gateway'. The dropdown menu is open, showing options: 'Static IPv6', 'DHCPv6', 'IPv4+IPv6 PPPoE', and 'Static IPv6' (highlighted).

Method Of Obtaining: Static IPv6 ▼

IPv6

IPv6 Gateway

1. Click **More>Network>IPv6**.
2. Click once to enable **IPv6**.
3. **IPv6 WAN Settings**.

IPv6 WAN Settings



The image shows the 'IPv6 WAN Settings' configuration window. It has a 'Method Of Obtaining' dropdown menu currently set to 'IPv4+IPv6 PPPoE'.

Method Of Obtaining: IPv4+IPv6 PPPoE ▼

IPv6 WAN Settings

Method Of Obtaining	Static IPv6 ▼
IPv6	/
IPv6 Gateway	
Preferred DNS	
Alternative DNS	

3.1 Select corresponding **Method Of Obtaining** from the list, then input corresponding information:

- **DHCPv6**: The router automatically obtains the parameters such as IPv6 address. No manual requirements.
- **IPv4+IPv6 PPPoE**: When IPv4 Internet access is also PPPoE, you can select IPv4+IPv6 PPPoE. After enabled, IPv6 will use the IPv4 account and password to dial the number, and you do not need to manually enter the IPv6 account and password. Please note that this requires operator's support.
- **Static IPv6**: Manually input **IPv6(address)**, **IPv6 Gateway**, **Preferred DNS** and **Alternative DNS**.

4. IPv6 LAN Settings.

IPv6 LAN Settings

IPv6 Address Assignment	Automatic Allocation ▼
IPv6 Prefix	Automatic Allocation
IPv6	SLAAC
	fd00:7c28:acc8::/48

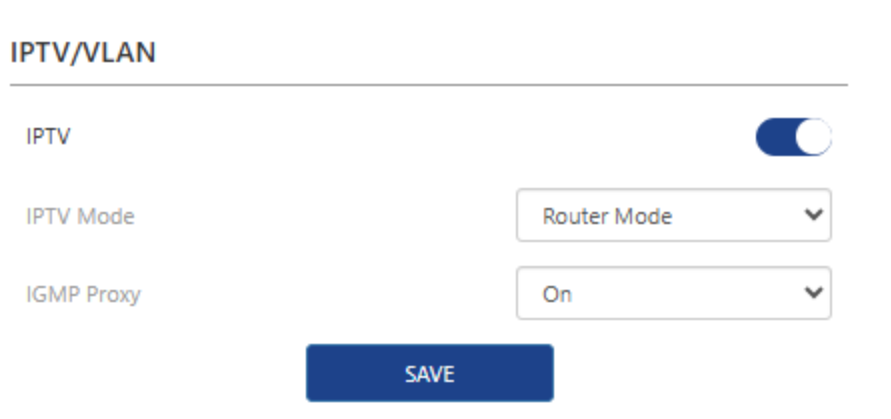
- Selecting appropriate address assignment method from the **IPv6 Address Assignment** list:
 - **Automatic Allocation**: It will automatically assign IPv6 addresses to devices on the LAN network.
 - **SLAAC**: In the SLAAC, The terminals on the LAN will automatically create IPv6 addresses according to the router.

5 . Click **SAVE** to finish the configuration.

IPTV Setting

Setting IPTV allows you to enjoy multimedia service while using the network. You should consult IPTV's service provider about **VLAN ID** and how to select **IPTV Mode**. Then you can select the corresponding VLAN Port, and connect IPTV's cable to the corresponding LAN port on the router.

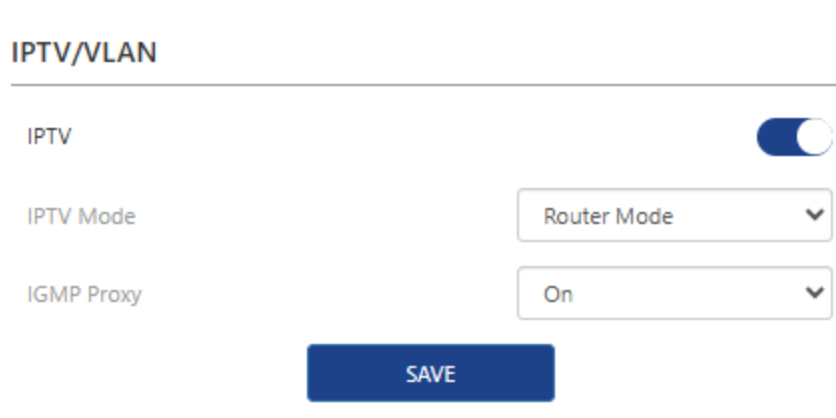
Configuring IPTV



The screenshot shows the 'IPTV/VLAN' configuration page. At the top, the title 'IPTV/VLAN' is followed by a horizontal line. Below this, there are three settings: 'IPTV' with a toggle switch that is turned on (blue), 'IPTV Mode' with a dropdown menu showing 'Router Mode', and 'IGMP Proxy' with a dropdown menu showing 'On'. At the bottom of the settings area is a blue 'SAVE' button.

1. Enter **More>Network>IPTV/VLAN**.
2. Click once to enable **IPTV**.
3. Select appropriate working mode from the **IPTV Mode** list.

3.1 Router Mode



This screenshot is identical to the one above, showing the 'IPTV/VLAN' configuration page with 'IPTV' enabled, 'Router Mode' selected, and 'IGMP Proxy' set to 'On', with a 'SAVE' button at the bottom.

Enable **IGMP Proxy** if you use IPTV service on multiple devices at the same time.

3.2 VLAN Bridge Mode: Enter **VLAN ID** and select **VLAN Port**.

IPTV/VLAN

IPTV

IPTV Mode

VLAN Bridge Mode

VLAN1 ID

0

VLAN1 LAN Port

LAN4

VLAN2 ID

0

VLAN2 LAN Port

LAN4

SAVE

4. Click **SAVE** to finish the configuration.

- **VLAN1 ID and VLAN1 LAN Port:** The VLAN1 ID indicates the VLAN1, and the VLAN1 LAN Port indicates the LAN port associated with VLAN1.
- **VLAN2 ID and VLAN2 LAN Port:** The VLAN2 ID indicates the VLAN2, and the VLAN2 LAN Port indicates the LAN port associated with VLAN2.

Setting Dynamic DNS

Dynamic DNS(DDNS, Dynamic Domain Name System) is a function of mapping dynamic IP addresses to fixed domain names. After enabling it, the router bind dynamic WAN IP with the fixed domain so that you can connect to the router using the domain remotely. In order to use this service, you need to register for the DDNS service with your service provider.

Dynamic DNS

Dynamic DNS



Connection Status

Disconnected

Service Provider

oray.com



Username

user_ddns

Password

.....



Host Name

www.domain.com

SAVE

1. Enter **More>Network>Dynamic DNS**.
2. Click once to enable **Dynamic DNS**.
3. Select **oray.com** or **NO-IP** from the **Service Provider** list.
4. Input corresponding **Username**, **Password** and **Host Name** from your DNS registration information.
5. Click **SAVE** to finish configuration.

Note: Different dynamic DNS service provider may provide various parameters, and the name or indication may vary. Therefore, you should look up the corresponding explanation so that the correct parameters are input.

Mode Selection

Configure router's working mode according to your actual requirement.

1. Enter **More>Network>Mode Selection**.
2. Select appropriate working mode from the **Mode Selection** list: **Router Mode**, **LAN Bridge(AP Mode)** or **Repeater Mode**.

Router Mode

In routing mode, the router provides Wi-Fi Internet access point for the client by connecting to the Internet signal from the Internet Service Provider. Also provides wired internet by connecting to router's LAN via the cable.

Mode Selection

Mode Selection	Router Mode
WAN Type	DHCP
Internet VLAN ID	☒
ID Number	0
Cloud App	☒
Auto Mesh	☒
Auto Mesh : When this function is turned on, the device automatically switches to mesh router or mesh extender mode, depending on the network topology. Otherwise, the device keeps in mesh router mode.	
WAN Status	Connected

SAVE

WAN Type:

① **DHCP:** If the **ISP(Internet Service Provider)** has provided Auto Assign Feature for you, select DHCP from the WAN Type list.

② **PPPoE:** Use this when your Internet Service Provider (ISP) has given you a **Username** and **Password**.

③ **Static IP:** Use this when your Internet Service Provider(ISP) has given a set of IP parameter including **IP Address**, **Subnet Mask**, **Gateway** and **DNS**.

Note: If you are unsure of the **WAN Type**, connect the network cable from your main router to the device's WAN port. Once you access this settings page, the device will automatically detect the appropriate WAN Type.

Internet VLAN ID: After enabling it, input **ID Number**.You should consult the ISP about the detailed configurations.

Cloud App: It allows you to control devices remotely from the cloud using the APP.

Auto Mesh: In a Mesh networking setup, the Mesh routers can automatically switch between the primary router and sub-router based on the Internet connection status. If you need to configure this device as the primary router for scenarios such as a secondary router setup, please disable this feature.

LAN Bridge(AP Mode)

In the AP mode of extending the existing network, you should confirm your device's WAN port has connected to the Internet using the Ethernet cable. One note is that some functions are not available in this mode.

Mode Selection

Mode Selection

LAN Bridge (AP Mode) ▼

Smart DHCP Service



WAN Status

Connected

SAVE

- **Smart DHCP Service:** If it is enabled, the router will configure IP service without connecting to the upper router. Please disable it if it is not required.

Repeater Mode

In the repeater mode, to extend the Wi-Fi coverage, this router works as a wireless repeater of the upper router. One note is that some functions are not available in this mode.

Mode Selection

Mode Selection

Repeater Mode ▼

NEXT

- 1) Click **NEXT** to rescan the Wi-Fi signal.

Mode Selection

☒ Select Wi-Fi

☐ Manual Input



Scan Time 60s

RESCAN

NEXT

- 2) Select the wireless signal to be relayed, click **NEXT**.
- 3) If the network to be added is not found, click **Rescan** to rediscover the network. Or select **Manual Input** to set it up.

Mode Selection

☒ Select Wi-Fi

☐ Manual Input

Please select the wireless signal to be relayed

5G/2.4G

	WL531MX3-6E23-5G		☐
	ED55_CSCSCSCS_5G		☐
	winstar_5g		☐
	WAVLINK_Guest		☐
	Parental-Wi-Fi		☐
	ZZH-WIFI_5G		☐
	WAVLINK_Touch_EXT5G		☐
	WAVLINK_Touch		☐
	099-5-1		☐

RESCAN

NEXT

4) Enter the password of the superior wireless network and the wireless network information of this device. Click **Save** to complete the setup.

Mode Selection

Superior wireless network information

Superior Network Name

WAVLINK-Mesh_C5D7

Password

.....



Wireless network information of this device

Connection Type

Bridge(Recommend)



2.4G Wi-Fi Name

WAVLINK-Mesh_C5D7_EXT2

Encryption Method

OPEN



5G Wi-Fi Name

WAVLINK-Mesh_C5D7_EXT5

Encryption Method

OPEN



SAVE

SQM QoS

SQM QoS is designated for optimizing the adjustment for network bandwidth, providing better network performance and lower latency. When the bandwidth is less than 100Mbps and multi-users is using the internet, this function can be enabled to optimize the network performance, ensuring appropriate bandwidth is allocated to each application; When the bandwidth is 100Mbps+, it is not recommended to enable it.

SQM QoS

SQM QoS



Upload Bandwidth (Mbps)

1000

Download Bandwidth (Mbps)

1000

You Can Click On The Website On The Right
For Speed Measurement To Obtain
Bandwidth.

<https://www.speedtest.net>

(This Website Is A Third-Party Website, Please Pay Attention To Protecting
Personal Privacy)

SAVE

1. Navigate to **More > Network > SQM QoS**.
2. Click to enable **SQM QoS**.
3. Set the maximum **Upload Bandwidth** and the maximum **Download Bandwidth**.
4. Click **SAVE** to complete the configuration.

URL Filter

You can block any device connected to this router from accessing specific websites by entering keywords or the full domain name.

1. Click **+** icon in **URL Filter**.

URL Filter

Device Information	MAC	URL Filter
DESKTOP-BJ3F5MU	C0:25:A5:9F:B5:2F	

2. After entering the keywords or the full domain name, click **SAVE** to take effect.

Please Enter The Keywords Or Domain Names You Want To Block:

Please enter a keyword or domain name.

Example:Baidu,Google,Youtube

CANCEL

SAVE

Restricted Keywords Or Domain Names:

DELETE

Chapter 4 Managing Wireless Network

This chapter contains the following sections:

- [Wireless](#)
- [Guest Wi-Fi](#)
- [Parental Wi-Fi](#)

Wireless

Configure the SSID, encryption method, password, and other wireless parameters for both the 2.4G and 5G networks.

1. Navigate to **Wireless** or go to **More > Wireless > Wireless**.

Configuring Wireless Network

- 1) **Dual Frequency Selection** Enabling Dual Frequency Selection combines the 2.4GHz and 5GHz Wi-Fi bands into the same **Wi-Fi Name(SSID)**, when the terminal connect to the Wi-Fi, the router will automatically select network band for the terminal according to the internet status. Disabling it to configure the 2.4G and 5G band separately.
- 2) **MLO** When it is enabled, the terminal can establish multi-connection with the router to speed up the network and lower latency. This function requires two bands use the same Wi-Fi name(SSID) and wireless password, and the working mode should supports 802.11be.
- 3) **Change Wi-Fi Name and Password** Create a new Wi-Fi name in **SSID** and customize Wi-Fi password in **Password**.

Wireless

Dual Frequency Selection



MLO



Wi-Fi

SSID

WAVLINK-Mesh_3162

Encryption Method

WPA2-PSK (Recommended) ▼

Password

.....



[Advanced >](#)

[Schedule >](#)

SAVE

Advanced Settings

1) Channel

Changing the wireless network channel as you need. If you are unsure which one to select, it is recommended to choose **Automatic**. The device will automatically select the optimal channel based on the surrounding environment for the best experience.

2) Bandwidth

The bandwidth indicates the frequency range of the wireless data transmission from the router.

3) Disable Wi-Fi

The Wi-Fi signal will be off after disabling the Wi-Fi.

4) Hide SSID

Enable this feature, the Wi-Fi signal will be hidden, which means SSID(Wi-Fi Name) will not be broadcasted or visible to devices searching for available networks. The user must manually input **SSID(Wi-Fi Name)** and **Password**.

5) DFS

It block interference from radar systems by automatically selecting and switching to the workable channel that has not used by the radar system. It is recommended to turn on

this switch to ensure compliance with local regulations and to maintain a stable and uninterrupted wireless network.

6) **TWT**

TWT is a power-saving mechanism. Once enabled, the router will automatically optimize resource scheduling between devices, negotiate wake-up schedules, reduce unnecessary contention, and extend device sleep time, thereby prolonging the lifespan of connected devices.

Note: Some of the terminals may occurs compatibility on TWT function.

7) **MU-OFDMA**

Once enabled, the router will use multiplexing technology to improve transmission efficiency and reduce network latency. The multiplexing technology make several users share available bandwidth, and cut them into smaller channel and time slots. This enables simultaneous data transmission for different devices, enhancing network performance and ensuring smoother communication for all users.

Advanced

2.4G Wi-Fi Settings

Channel	Automatic 
Bandwidth	20/40MHz 
Disable Wi-Fi	☐
Hide SSID	☐
TWT	☐
MU-OFDMA	☐

5G Wi-Fi Settings

Channel	Automatic 
Bandwidth	20/80/160MHz 
Disable Wi-Fi	☐
Hide SSID	☐
DFS	☒
TWT	☐
MU-OFDMA	☐

Schedule (Wireless Timer Switch)

The schedule function allows you to customize event rules to control the wireless network switch, with up to three rules definable. This feature only takes effect after obtaining the network time and only affects the main network. For the guest network, you need to manually enable or disable this feature or define separate rules within the guest network settings.

2.4G Wi-Fi Settings

Rule 1



	Blocking Start Time		Blocking End Time				
Internet Blocking Period	00	:	00	~ 00 : 00			
Internet Blocking Day	Sun	Mon	Tues	Wed	Thu	Fri	Sat

Rule 2



Rule 3

**5G Wi-Fi Settings**

Rule 1



	Blocking Start Time		Blocking End Time				
Internet Blocking Period	00	:	00	~ 00 : 00			
Internet Blocking Day	Sun	Mon	Tues	Wed	Thu	Fri	Sat

Rule 2



Rule 3



1. Navigate to **Wireless > Schedule** or go to **More > Wireless > Wireless > Schedule**.
2. Click on **Rule 1/2/3** under either the **2.4G Wi-Fi Settings** or **5G Wi-Fi Settings** to set the timing rules.
3. Click **SAVE** to complete the settings.

Note:

- The schedule is based on the router's time. You can modify the time by going to **More > System > Time Zone**.
- The wireless network will automatically turn on after the set time period.

Guest Wi-Fi

The guest Wi-Fi provides guests(visitor, client or temporary device) with a independent and secure network environment isolated from the main network. Network administrators offer convenient access while protecting the security and resources of the primary network.

Guest Wi-Fi

Guest Wi-Fi

☒

SSID

WAVLINK_Guest

Guest Wi-Fi Mode

No Encryption Mode ▾

Device Isolation

On ▾

Schedule ▾

Rule 1

☐

Rule 2

☐

Rule 3

☐

SAVE

1. Navigate to **More > Wireless > Guest Wi-Fi**.
2. Click to enable **Guest Wi-Fi**.
3. Set the **SSID**.
4. In the **Guest Wi-Fi Mode**, set the encryption method: Encryption Mode, No Encryption Mode, and WPA/WPA2. If you select WPA/WPA2, you will need to set the RADIUS server IP, RADIUS port, and RADIUS password.
5. Set the **Device Isolation**. Once on, this feature will isolate devices connected to the same LAN from each other, enhancing network security and privacy protection.
6. Set the guest Wi-Fi open time in the **Schedule**.
7. Click **SAVE** to complete the settings.

Parental Wi-Fi

Parental Wi-Fi allows you to set up a wireless network with separate SSID(Wi-Fi name) and separate password for family members. You can configure its SSID, encryption method, and rules as you need.

Parental Wi-Fi

Enable

☒

SSID

Parental-Wi-Fi

Encryption Method

WPA3-SAE/WPA2-PSK

Password

Schedule

Rule 1

☒

Blocking Start Time

Blocking End Time

Internet Blocking Period

00 : 00 ~ 00 : 00

Internet Blocking Day

Sun Mon Tues Wed Thu Fri Sat

Rule 2

☐

Rule 3

☐

SAVE

1. Navigate to **More > Wireless > Parental Wi-Fi**.
2. Click to enable **Parental Control**.
3. Set the **SSID, Encryption Method, and Password**.

4. Set the Internet Blocking Period and Internet Blocking Day in **Rule 1/2/3** to control your child's internet access time.
5. Click **SAVE** to complete the settings.

Chapter 5 Mesh

This chapter contains the following section:

- [Mesh Configuration](#)

Mesh Configuration

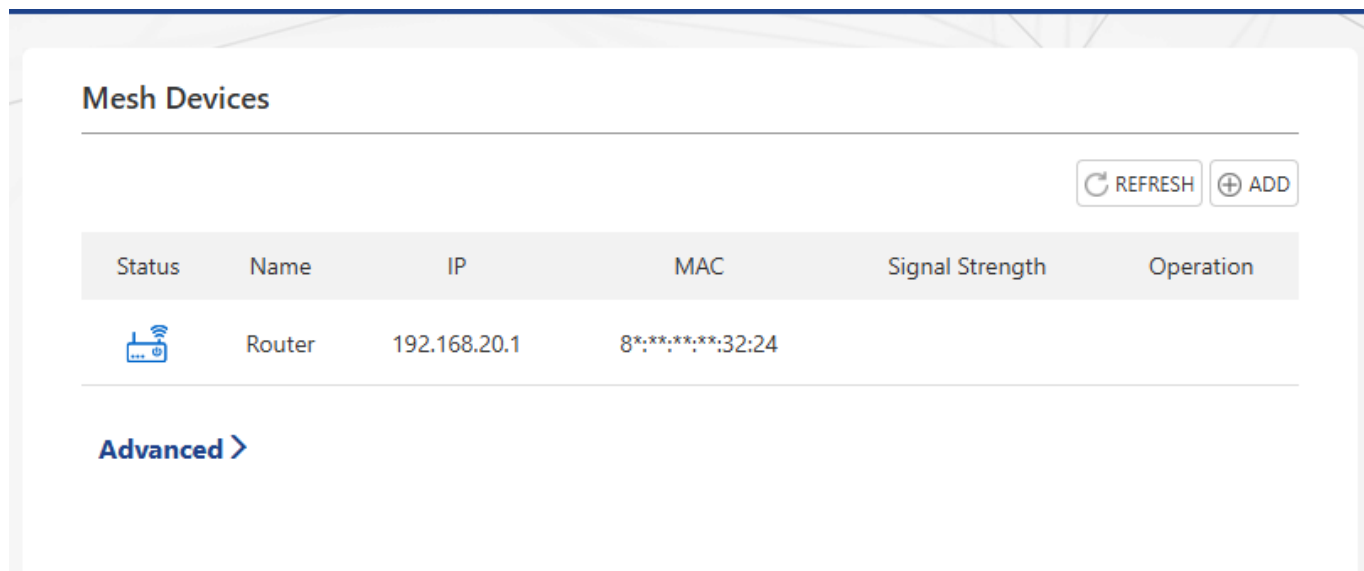
If a single router cannot provide adequate wireless coverage for large homes, you can purchase multiple WAVLINK routers that support Mesh networking to achieve full Wi-Fi coverage throughout your home.

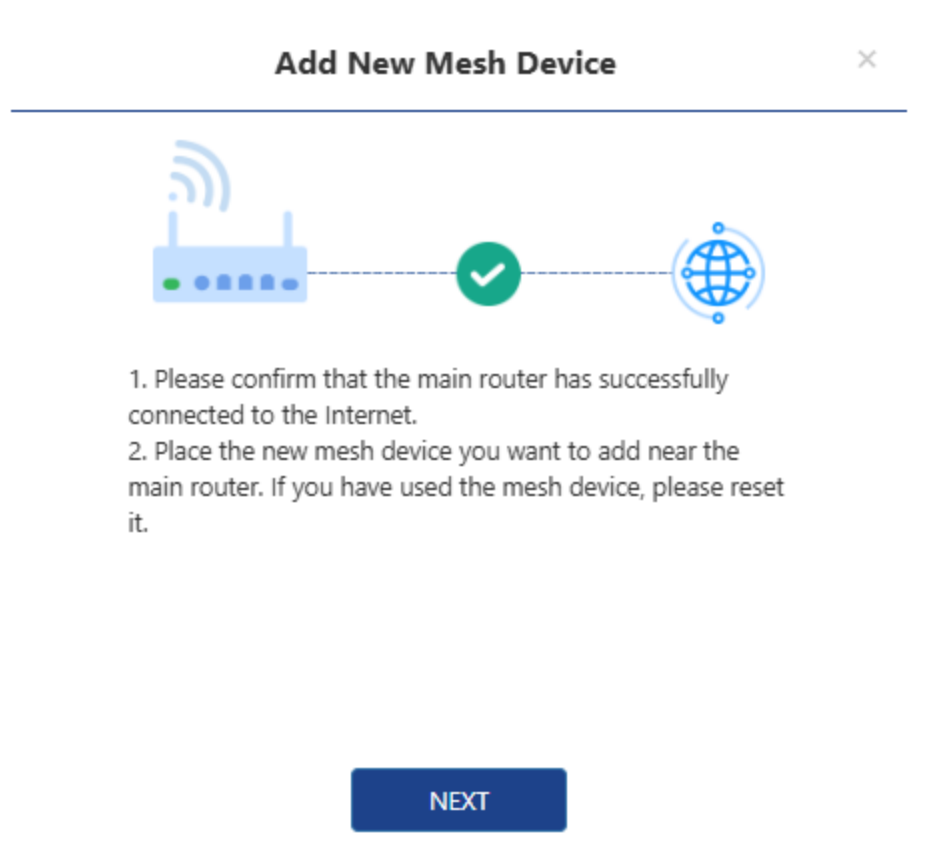
Adding New Mesh Device

Before setting up the Mesh network, ensure that:

The main router is connected to the internet, and the setup wizard is complete. The indicator light shows a solid blue.

1. Navigate to **More > Mesh > Mesh Devices**.
2. Click on **+Add**. Follow the on-screen instructions to prepare your mesh device, then click **NEXT**.





3. Follow the on-screen instructions to power on the mesh device and press the pair button when the mesh device starts operating. Click **"SCAN"**. The main router will automatically scan the mesh device that is attempting to pair.



4. Once the scan is completed, select the mesh device you want to add.

Advanced Settings

Advanced ▾

Roaming ☒

Roaming Threshold dBm

Topology Optimization

Threshold Of Topology Optimization dBm

1) Roaming (Wireless Roaming Technology)

Enabling Roaming allows devices to seamlessly switch between two Mesh routers. As you move away from one router and get closer to another, the device will automatically disconnect from the current router and connect to the nearer one to provide a smoother network experience.

1. Navigate to **More > Mesh > Mesh Devices > Advanced**.
2. Click to enable **Roaming**.
3. Set the **Roaming Threshold** to an appropriate parameter.

Note: The wireless roaming trigger threshold should only be set by experienced professionals. If you lack professional experience in setting this, it is recommended to keep the default settings to avoid negatively impacting the network user experience.

2) Topology Optimization

When you have three or more paired devices and all devices have completed pairing, you can enable the topology optimization feature. This function can automatically adjust the optimal path based on the signal strength between devices to ensure that all sub-routers and corresponding upper-level devices have the best signal connection status, achieving optimal network coverage.

1. Navigate to **More > Mesh > Mesh Devices > Advanced**.
2. Click the **OPTIMIZATION** button after **Topology Optimization**.
3. Ensure the **Threshold Of Topology Optimization** is set to an appropriate parameter.

Note: You can adjust the signal threshold that triggers topology optimization to achieve the best mesh network coverage. If you do not have professional setup experience, it is recommended to use the default settings.

Topology Map

In this interface, you can see the network topology map, which shows the device access relationships and network connection status. It will also display the MAC address of each connected device, making it easier to see which terminals the devices are connected to.

1. Navigate to **More > Mesh > Topology Map**.

Topology Map



Chapter 6 Net Guardian

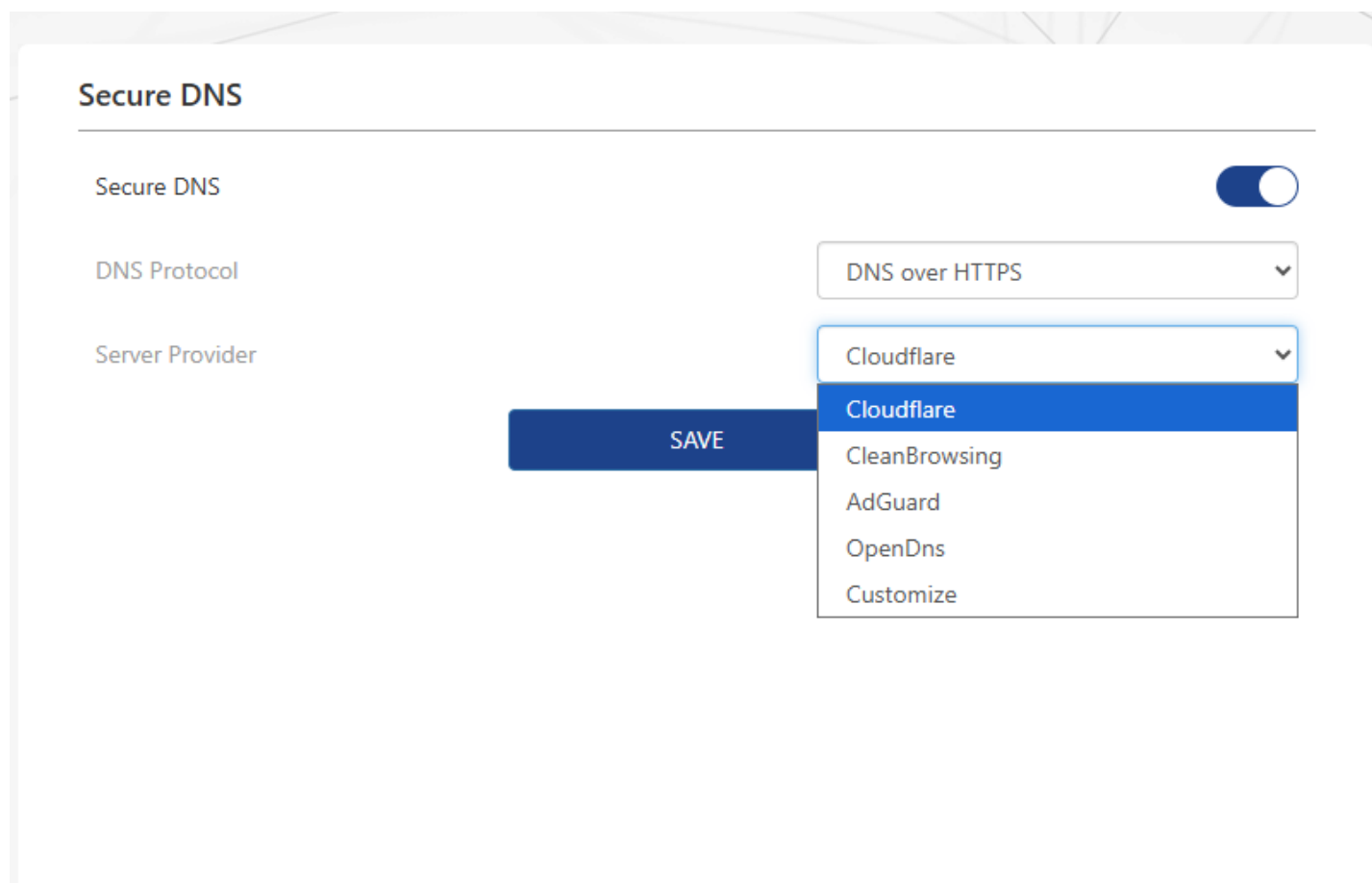
This chapter contains the following sections:

- [Secure DNS](#)
- [AdGuard Home](#)

Secure DNS

This feature encrypts your DNS traffic to enhance security and privacy, preventing DNS leaks and DNS hijacking.

1. DNS Navigate to **More > Net Guardian > Secure DNS**
2. Click to enable **Secure DNS**.
3. Set the **DNS Protocol** and **Server Provider**.
4. Click **SAVE** to complete the configuration.



The screenshot shows the 'Secure DNS' configuration page. At the top, the title 'Secure DNS' is followed by a horizontal line. Below this, there are three settings: 'Secure DNS' with a toggle switch turned on, 'DNS Protocol' with a dropdown menu set to 'DNS over HTTPS', and 'Server Provider' with a dropdown menu open showing options: 'Cloudflare' (highlighted), 'CleanBrowsing', 'AdGuard', 'OpenDns', and 'Customize'. A blue 'SAVE' button is positioned to the left of the 'Server Provider' dropdown menu.

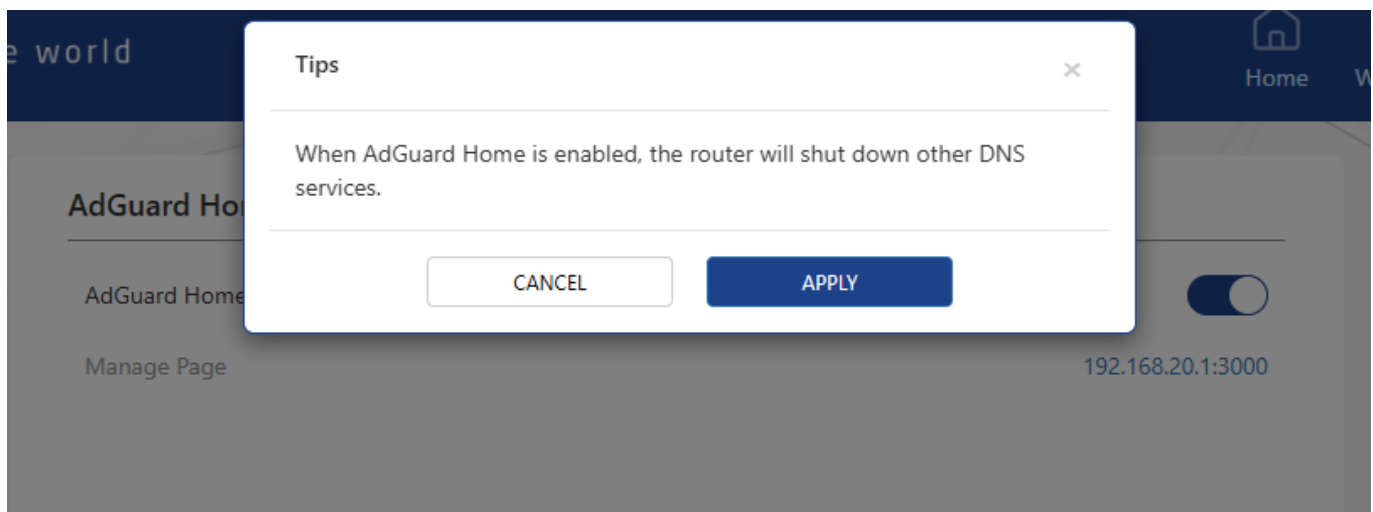
AdGuard Home

AdGuard Home acts as a global DNS blocker to filter harmful content from the network, such as ads, malware, trackers, and more.

AdGuard Home also offers advanced functions such as parental control, statistics, custom rule, and more so you can better manage network traffic and protect privacy. By running AdGuard Home on your router, you can have one-stop ad blocking and privacy protection for your entire network without installing separate software or browser plug-ins on each device.

Initial Settings

1. Access **More> Net Guardian > AdGuard Home**.
2. Open **AdGuard Home**. When AdGuard Home is enabled, the router will shut down other DNS services.



3. Click **the URL** behind Manage Page or enter <http://192.168.20.1:3000> manually on the browser. Access the AdGuard Home manage page and enter the installation guard page.

NOTE

If your router IP is not 192.168.20.1, please change 192.168.20.1 to your router IP.

- 1) Enter the AdGuard Home manage page, and click **Get Started**.



Welcome to AdGuard Home!

AdGuard Home is a network-wide ad-and-tracker blocking DNS server. Its purpose is to let you control your entire network and all your devices, and it does not require using a client-side program.

Get Started

Step 1/5

- 2) Select the **Listen interface** and bind **Port** on the Admin Web Interface.

Admin Web Interface

Listen interface

Port

All interfaces

8080

Your AdGuard Home admin web interface will be available on the following addresses:

- <http://127.0.0.1:8080>
- <http://172.16.2.111:8080>
- <http://192.168.20.1:8080>
- <http://197.131.179.1:8080>
- [http://\[::1\]:8080](http://[::1]:8080)
- [http://\[fd00:7c28:acc8::1\]:8080](http://[fd00:7c28:acc8::1]:8080)

- 3) Select the **Listen interface** and bind **Port** on the DNS server.

DNS server

Listen interface

All interfaces

Port

5353

You will need to configure your devices or router to use the DNS server on the following addresses:

- 127.0.0.1:5353
- 172.16.2.111:5353
- 192.168.20.1:5353
- 197.131.179.1:5353
- [::1]:5353
- [fd00:7c28:acc8::1]:5353

4) Set the username and password for AdGuard Home login. Click **Next**.



Authentication

Password authentication to your AdGuard Home admin web interface must be configured. Even if AdGuard Home is accessible only in your local network, it is still important to protect it from unrestricted access.

Username

Test

Password

.....

Confirm password

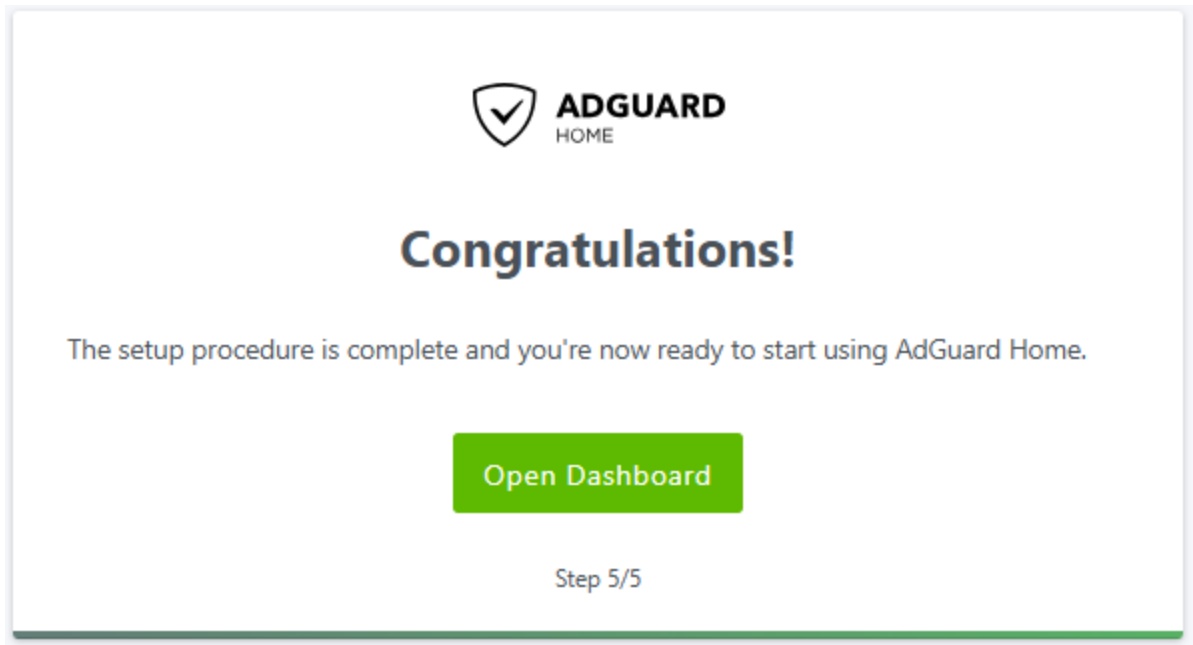
.....

Back

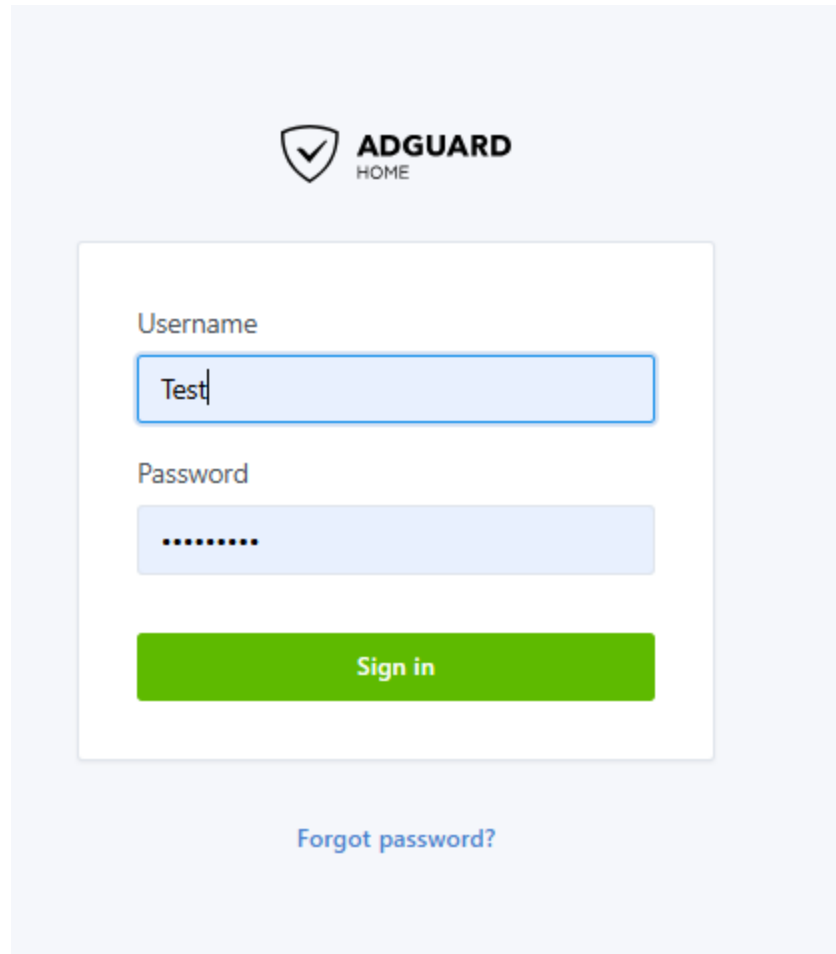
Next

Step 3/5

5) Click **Open Dashboard**.



6) Enter your **Username and Password** to log in to the dashboard.



7) In the dashboard, you can monitor the number of DNS blocks and some lists in real time.

Dashboard

Disable protection

Refresh statistics

0

DNS Queries

0

0%

Blocked by Filters

0

0%

Blocked malware/phishing

0

0%

Blocked adult websites

General statistics

for the last 24 hours



DNS Queries (?)

0

Blocked by Filters (?)

0

Blocked malware/phishing (?)

0

Blocked adult websites (?)

0

Enforced safe search (?)

0

Average processing time (?)

0

Top clients

for the last 24 hours



Client

Requests count

No clients found

Top queried domains

for the last 24 hours



Domain

Requests count

No domains found

Top blocked domains

for the last 24 hours



Domain

Requests count

No domains found

8) If you can not use a default DNS server, you can add a new DNS in **Settings**.

DNS settings

Upstream DNS servers

Enter one server address per line. [Learn more](#) about configuring upstream DNS servers. Here is a [list of known DNS providers](#) to choose from.

```
114.114.114.114
119.29.29.29
```

☒ Load-balancing

Query one upstream server at a time. AdGuard Home uses its weighted random algorithm to pick the server so that the fastest server is used more often.

☐ Parallel requests

Use parallel queries to speed up resolving by querying all upstream servers simultaneously.

☐ Fastest IP address

Query all DNS servers and return the fastest IP address among all responses. This slows down DNS queries as AdGuard Home has to wait for responses from all DNS servers, but improves the overall connectivity.

Examples:

1. `94.140.14.140 ; regular DNS (over UDP);`
2. `tls://dns-unfiltered.adguard.com;encrypted DNS-over-TLS;`
3. `https://dns-unfiltered.adguard.com/dns-query;encrypted DNS-over-HTTPS;`
4. `quic://dns-unfiltered.adguard.com:784;encrypted DNS-over-QUIC (experimental);`
5. `tcp://94.140.14.140 ; regular DNS (over TCP);`
6. `sdns://... :DNS Stamps for DNSCrypt or DNS-over-HTTPS resolvers;`
7. `[/example.local/]94.140.14.140 ;an upstream for specific domains;`
8. `# comment ;a comment.`

9) If you set DNS blacklists, please access **Filter>DNS blacklists**.

DNS blocklists

AdGuard Home will block domains matching the blocklists.

AdGuard Home understands basic adblock rules and hosts files syntax.

Enabled	Name	List URL	Rules count	Last time updated	Actions
☒	AdGuard DNS filter	https://adguardteam.github.io/Ad...	0	–	✎ 🗑
☐	AdAway Default Blocklist	https://adaway.org/hosts.txt	0	–	✎ 🗑

Previous

Page 1 / 1

10 rows ▼

Next

Add blocklist

Check for updates

10) Click **New blocklist>Add a custom list**.

New blocklist

Choose from the list

Add a custom list

Cancel

11) Enter the name and URL of the new blocklist. Click **Save**.

New blocklist

Enter name

Enter a URL or an absolute path of the list

Enter a valid URL to the blocklist.

Cancel

Save

Chapter 7 NAT Forwarding

This chapter contains the following sections:

- [UPnP Settings](#)
- [Port Forwarding](#)
- [DMZ](#)
- [Hardware NAT](#)

UPnP Settings

UPnP (Universal Plug and Play) is a network protocol designed to make connecting devices simpler and more automated. Using the UPnP protocol, devices can automatically discover each other on the network and establish communication connections without requiring manual configuration or setup.

UPnP allows devices to share resources such as files, printers, and other multimedia content. The UPnP protocol is widely used in home networks and office environments to facilitate communication and interaction between devices.

1. Access **More>NAT Forwarding>UPnP**.
2. Set **ON/OFF UPnP**.
3. Click **SAVE** to finish configuration.

UPnP

UPnP

Connection List

Number of connections: 0

REFRESH

Application Description	Protocol	External Port	Internal Port	IP
No Data				

SAVE

The computer operation system and application program you used need to support the UPnP function.

Port Forwarding

Port forwarding is a network technology. It maps a specific port on a public network to a specified server on the local network, allowing Internet users to access the local network server's service by accessing the port.

Port Forwarding

⊕ ADD

Server IP	External Port	Internal Port	Protocol	Operation
			TCP ▼	BIND CANCEL

1. Access **More>NAT Forwarding>Port Forwarding**.
2. Click **Add**.
3. Enter the parameters of **Server IP**, **External Port**, and **Internal Port**.
4. Select **Communication Protocol**.
5. Click **Bind** to finish the configuration.

DMZ

Enable DMZ (Demilitarized Zone) management function, only enter one IP address that connects this device, then this device can be DMZ host. So this device can be accessed via external network and open all ports to improve fluency of corresponding communication. Please note security software and firewall on this host need to be closed temporarily when you use this function. So please consider using this function carefully.

DMZ

DMZ Host



DMZ Host IP

192.168.20.215

SAVE

NOTE

DMZ is suitable for use when you are not sure of the ports that need to be opened. Computers will be completely exposed to the WAN after opening DMZ Host, which may bring security risks to computers. So please do not open it easily. Close it in time if you do not need to use DMZ Host.

1. Click **Network > Static IP Binding** to set a fixed IP for the host configured as DMZ device.
2. Access **More>NAT Forwarding>DMZ**.
3. Open **DMZ Host**.
4. Enter the **IP address** of the corresponding computer (192.168.20.215) in **DMZ Host IP**.
5. Click **SAVE** to finish the configuration.

Hardware NAT

Data is forwarded by hardware instead of being processed by the CPU after enabling Hardware NAT, which can improve the device's performance. Turn off NAT if you need to calculate throughput rate, usage statistics of CPU and RAM.

Hardware NAT

Hardware NAT



SAVE

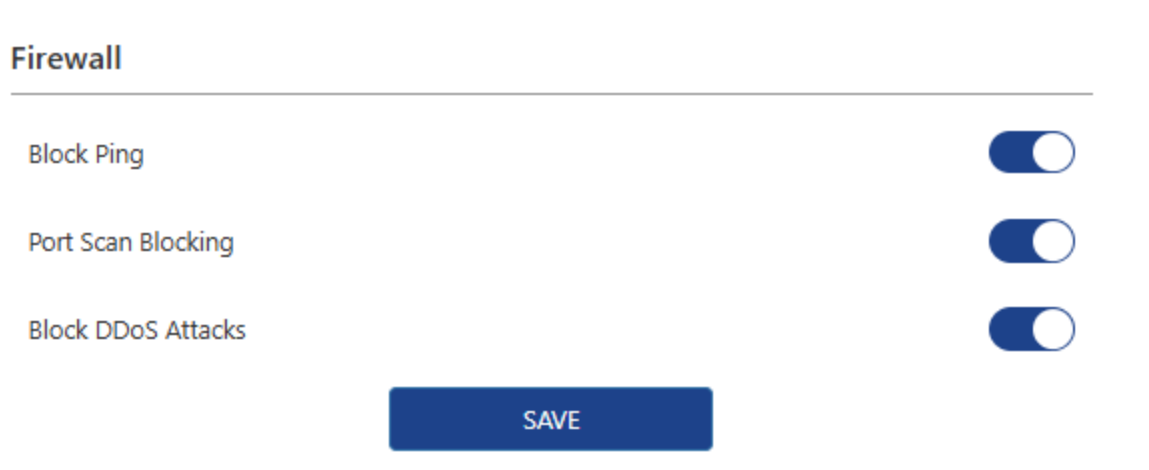
1. Access **More>NAT Forwarding>Hardware NAT**.
2. Open **Hardware NAT**.
3. Click **SAVE** to finish the configuration.

Chapter 8 Network Security

This chapter contains the following sections:

- [Firewall](#)
- [ALG Configuration](#)
- [MAC Filter](#)

Firewall



The screenshot shows a configuration interface for the Firewall. At the top, the title 'Firewall' is displayed. Below it, there are three settings, each with a label and a toggle switch:

- Block Ping**: The toggle switch is turned on (blue).
- Port Scan Blocking**: The toggle switch is turned on (blue).
- Block DDoS Attacks**: The toggle switch is turned on (blue).

At the bottom of the configuration area, there is a blue button labeled 'SAVE'.

1. Access **More settings>Security>Firewall**.
2. Open **Block Ping**: It can prevent ping attacks and scanning and reduce the risk of network attacks on this device.
3. Open **Port Scan Blocking**: It can protect server ports on devices from attacks.
4. Open **Block DDoS Attacks**: It enables the router to avoid the massive resource consumption caused by DDoS attacks and ensures normal services.
5. Click **SAVE** to finish the configuration.

ALG Configuration

ALG (Application Layer Gateway) allows a custom NAT traversal filter to be inserted into the gateway to support the address and port translation of certain application layer “control/data” protocols. Keeping default settings is recommended. When you use voice and video applications to create or receive calls through the router, you may need to

disable SIP ALG because some voice and video applications do not work well with SIP ALG.

ALG

PPTP Passthrough	☒
L2TP Passthrough	☒
IPSec Passthrough	☒
FTP ALG	☐
TFTP ALG	☐
RTSP ALG	☐
H323 ALG	☐
SIP ALG	☐

SAVE

1. Access **More>Security>ALG**.
2. After configuration, please click **SAVE** to finish.

MAC Filter

MAC address filtering applies to devices on the wireless/wired network. Devices on the filter list will be unable to access the Internet and will also be blocked from the router's management interface.

Note: This function may not work for terminals that use random MAC addresses.

MAC Filter

MAC Filter



Guest Network Exception



⊕ ADD

Device Name	MAC	Operation
No Data		

1. Click **Security** > **MAC Filter**.
2. Click **MAC Filter** to enable it.
3. If the **Guest Network Exception** is enabled, the devices in the guest Wi-Fi will not be blocked by this function.
4. Click **ADD** to add new rule.
 - 4.1 Select corresponding **Device Name** and **MAC address** from the list.

Add Device

×

Select from List

▼

☐	Device Name	MAC
☐	DESKTOP-BJ3F5MU	C0:25:A5:9F:B5:2F
☒	DESKTOP-UN7H8CR	7A:DB:DE:0B:DE:C4

CANCEL

APPLY

- 4.2 Or manually input **Device Name** and **MAC address** to add device.

Add Device

×

Manual Input

▼

Device Name

MAC

: : : : :

CANCEL

APPLY

5. After adding the device, you can edit or delete the devices added.

MAC Filter

MAC Filter

Guest Network Exception

⊕ ADD

Device Name	MAC	Operation	
DESKTOP-UN7H8CR	7A:DB:DE:0B:DE:C4	EDIT	DELETE

Chapter 9 VPN Server and Client

This chapter contains the following sections:

- [VPN Server and Client](#)
- [VPN Server Configuration](#)
- [VPN Client Configuration](#)

VPN Server and Client

VPN (Virtual Private Network) can encrypt your network connection to ensure the safe transfer of important data and avoid information stealing. Remote users (VPN clients) can safely connect VPN server.

VPN Server Configuration

Open VPN Server Configuration

OpenVPN Server is used for remote devices to establish an OpenVPN connection to access your home network. If you use VPN function, you need to enable the OpenVPN server on a router and then install and run VPN client apps on remote devices.

OpenVPN Server

- OpenVPN Server

Close

Configuration

User

Device IP

172.16.2.106

The current WAN IP is a private network address (10.x.x.x, 172.16.x.x, or 192.168.x.x).

Interface Type

tun

OpenVPN Protocol

tcp

IP

10.8.0.0

Subnet Mask

255.255.255.0

OpenVPN Port

65536

Encryption Method

AES-128-GCM

Identity Verification

SHA256

Login With Username And Password

☐

Allow LAN Access

☒

Restore default settings

Apply configuration

Generate backup file

Export Log File

1. Access **More>VPN>OpenVPN Server**.
2. Open **OpenVPN Server**.
3. Select **Interface Type** and **OpenVPN Protocol**.
4. Input the **OpenVPN Port**, which should be from **1024-65535**.
5. In **IP** and **Subnet Mask**, enter the range of IP addresses the OpenVPN server can lease to devices.
6. Select **Encryption Method** and **Identity Verification** type.
7. Click **Apply configuration**.
8. Click **Generate backup file** to save it. VPN client device will establish VPN connection by using the file.

Note: Whenever the OpenVPN server settings are adjusted, the OpenVPN configuration file needs to be re-exported as **step 8**.

Use WireGuard VPN Server

WireGuard Server

• WireGuard Server

Enable

Configuration

User

IP

10.0.0.1

Local Port

51820

Restore default settings

Apply configuration

1. Review the preset WireGuard VPN settings. Do not change them unless necessary.
2. Click **Enable**.
3. **Downloading configuration files:** Each client that needs to connect to the WireGuard Server requires unique node configuration, so creating a configuration in unique client IP for each device as the following steps:

WireGuard Server

• WireGuard Server

Close

Configuration

User

Each Client Device Connecting To The WireGuard Server Requires A Different Node Configuration. You Need To Create A Configuration For Each Device, And Each Configuration Must Use A Different Client IP.

Add

User List

Username	IP	Configuration File	Operation
No Data			

Connection List

Username	IP	Receive Bytes	Send Bytes	Last Connection
----------	----	---------------	------------	-----------------

3.1 Click **User**.

3.2 Click **Add**, then input **Username** and click **APPLY**.

WireGuard Server

• WireGuard Server

Close

Configuration

User

Each Client Device Connecting To The WireGuard Server Requires A Different Node Configuration. You Need To Create A Configuration For Each Device, And Each Configuration Must Use A Different Client IP.

Add

User List

Username	IP	Configuration File	Operation
			APPLY CANCEL

Connection List

Username	IP	Receive Bytes	Send Bytes	Last Connection
----------	----	---------------	------------	-----------------

3.3 After adding successfully, click **SAVE** to obtain a **.conf** configuration file, then import this file into your WireGuard client.

WireGuard Server

• WireGuard Server

Close

Configuration

User

Each Client Device Connecting To The WireGuard Server Requires A Different Node Configuration. You Need To Create A Configuration For Each Device, And Each Configuration Must Use A Different Client IP.

Add

User List

Username	IP	Configuration File	Operation
WireGuardClient_	10.0.0.2/32	SAVE	DELETE

Connection List

Username	IP	Receive Bytes	Send Bytes	Last Connection
No Data				

VPN Client Configuration

VPN client can establish VPN connection for devices in your home network to access remote a VPN server.

PPTP/L2TP VPN Client Configuration

VPN converts public networks (Internet, etc.) into private networks using encryption technology to offer greater security and privacy protection.

VPN Client

Client On/Off



Internet Access Method

PPTP

Server

Server Address

Server Address

172.16.2.216

Username

Password

Connection Status

Disconnected

SAVE

1. Access **More>VPN>VPN Client**.
2. Open **VPN Client**.
3. Select **Internet Access Method**.
4. Select server domain or server address in **Server**, then enter corresponding parameter in **Server Address**.

VPN Client

Client On/Off



Internet Access Method

PPTP



Server

Server Address



Server Address

Username

Password

Connection Status

Disconnected

SAVE

5. Click **SAVE** to finish the configuration.

OpenVPN Client Configuration

1. Access **More>VPN>OpenVPN Client**.
2. Click **Add Group** to add new group, then click **Add Configuration** to add new configuration.

OpenVPN Client

● New group



+ Add Group

Name

Server Address

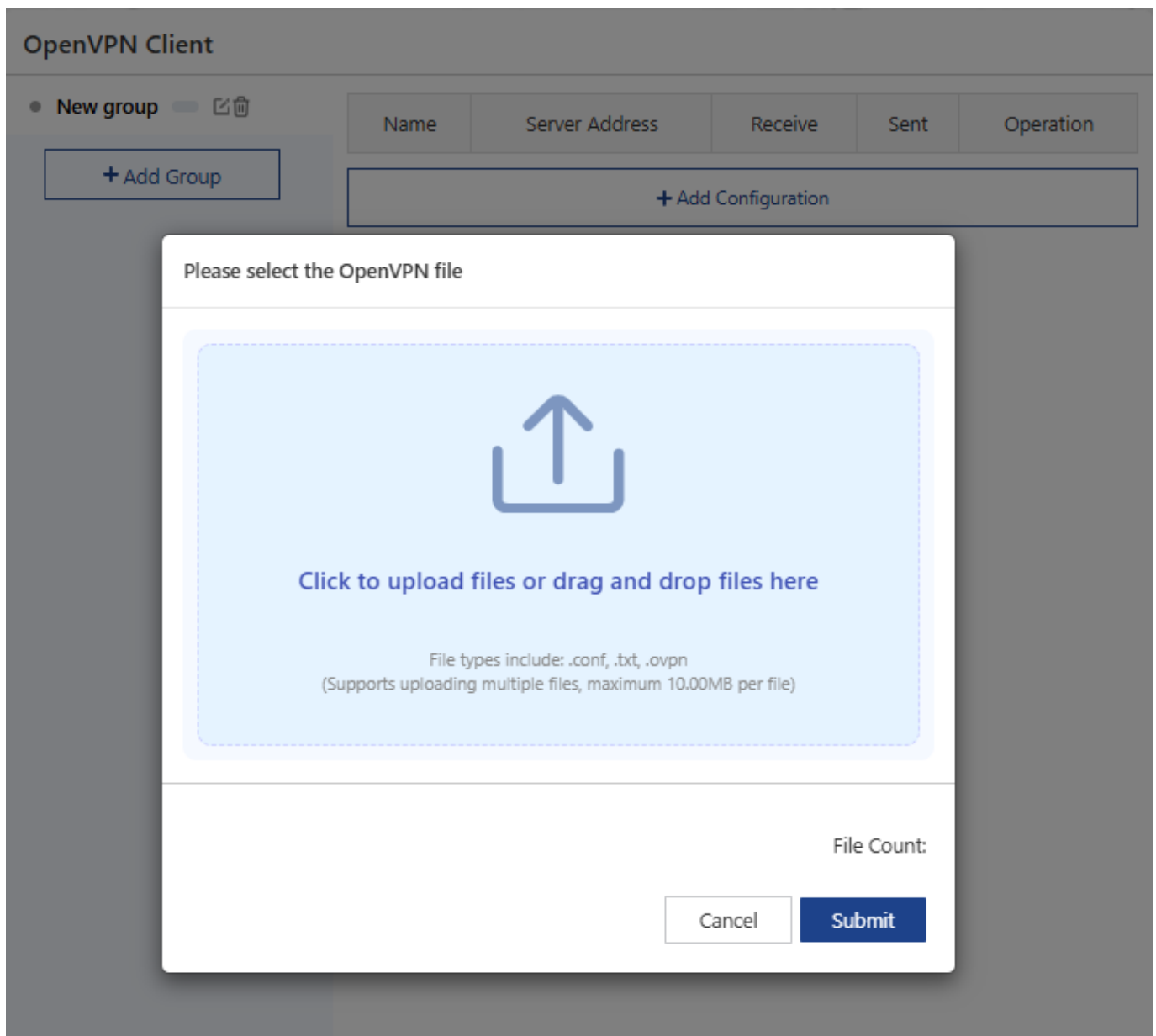
Receive

Sent

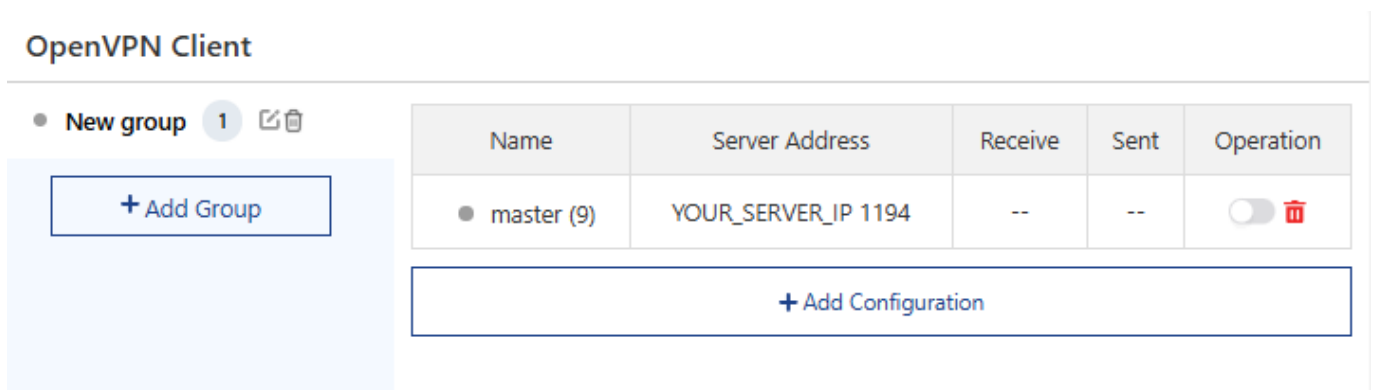
Operation

+ Add Configuration

3. Click to upload files or drag and drop files into the box.



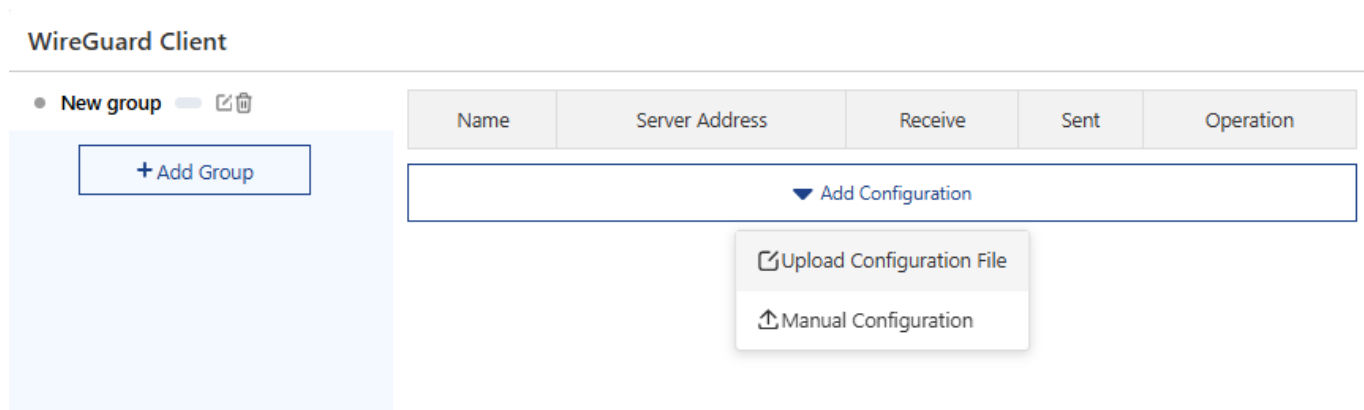
4. After a successful configuration, click the checkbox below the action bar to enable OpenVPN.



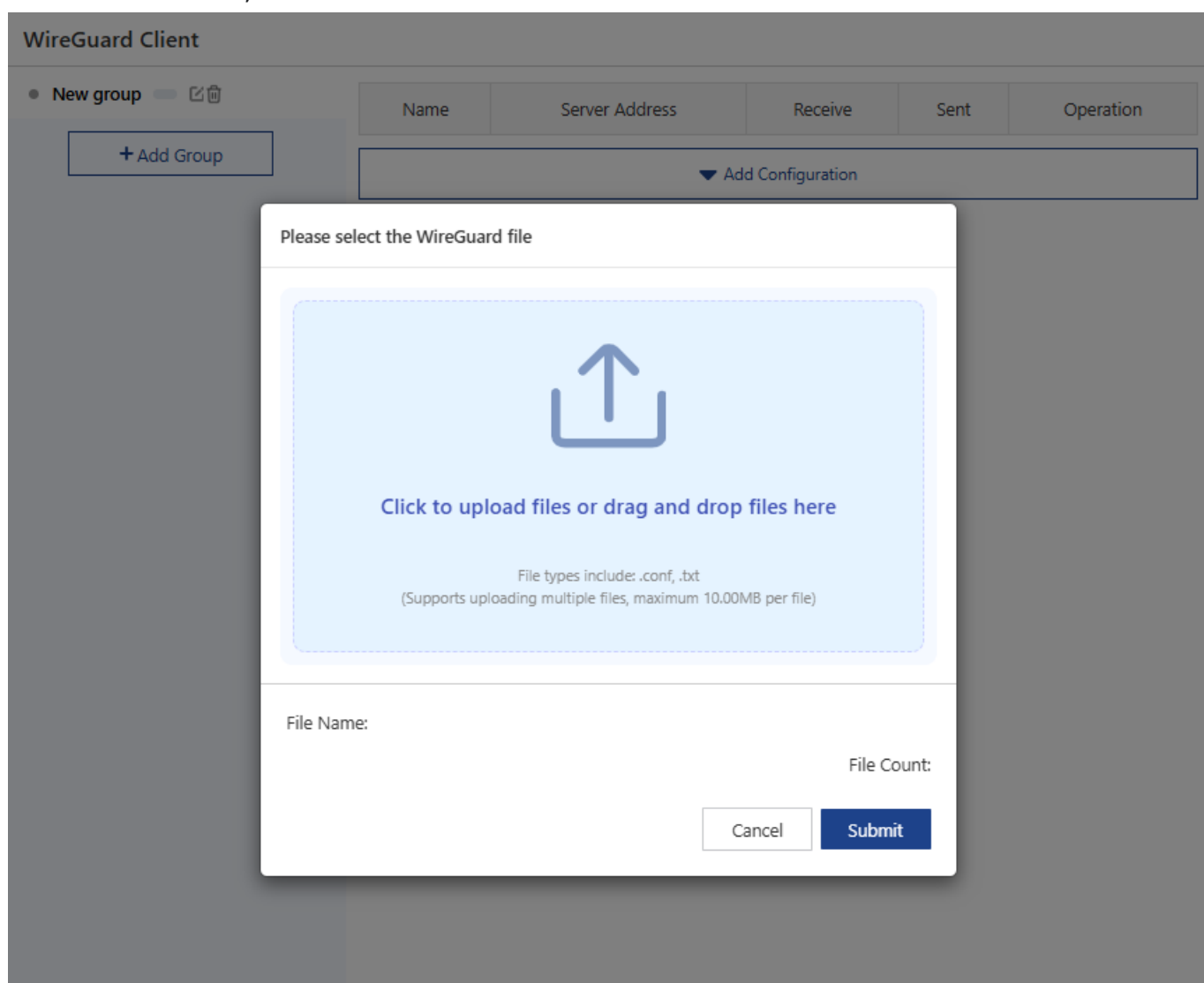
WireGuard VPN Client Configuration

1. Access **More>VPN>WireGuard VPN Client**.

2. Click **Add Group** in **New group**, then click **Add Configuration**, select **Upload Configuration File** or **Manual Configuration**.



3. After selecting **Upload Configuration File**, click to upload files or drag and drop files into the box, then click **Submit**.



4. After a successful configuration, click the checkbox below the action bar to enable WireGuard.

WireGuard Client

• New group 1  

+ Add Group

Name	Server Address	Receive	Sent	Operation
• Test	172.16.2.111	-	-	☐  

▼ Add Configuration

ZeroTier Configuration

ZeroTier

ZeroTier



Connection Status

Disconnected

Network ID

8056c2e21c000001

SAVE

1. Access **More>VPN>ZeroTier**.
2. Open **ZeroTier**.
3. Enter **Network ID** obtained on the Zerotier manage page.
4. Click **SAVE** to finish the configuration.

Chapter 10 Remote Access

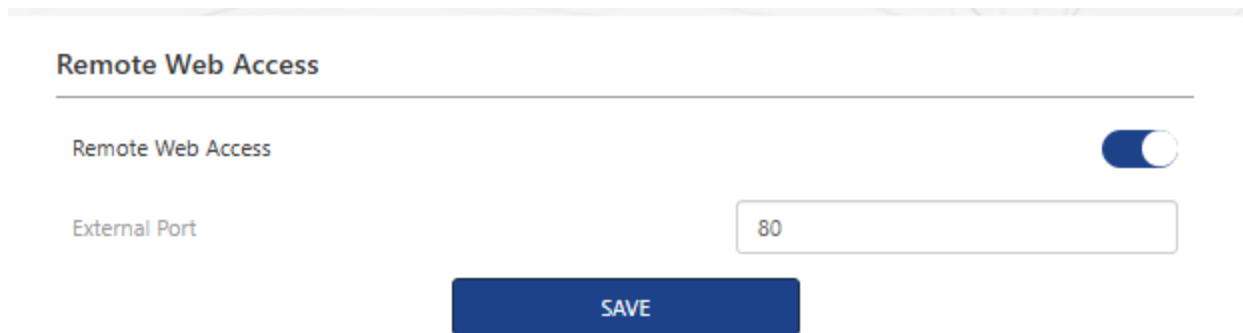
This chapter introduces remote web access and cloud APP.

It contains the following sections:

- [Remote Web Access](#)
- [Cloud APP](#)

Remote Web Access

With this function, you can manage this router remotely via the Internet. Input **http://WAN IP: port number** for remotely accessing this device. We recommend you write this router's WAN port number down before using this function.



Remote Web Access

Remote Web Access ☒

External Port

SAVE

1. Access to **More>Remote Access>Remote Web Access**.
2. Turn on **Remote Web Access**.
3. Set **External Port**.
4. Click on **SAVE** to complete settings.

Cloud APP

With this function, you can control this router remotely from the cloud with the APP.

Cloud App

Cloud App



Connection Status

Connected

SAVE

Don't have the app? [Click to download](#)

1. Access to **More>Remote Access>Cloud APP**.
2. Click on **Cloud APP** to enable the function.
3. Click on "**SAVE**" to complete settings.

NOTE:

If you didn't download APP, please click on **Click to download** to scan the pop-up QR code for downloading. You can also scan the QR code directly to obtain APP.

Scan the QR code using your phone to download the app. 



Chapter 11 NET Tools

This chapter introduces how to check network status, test network connection, and enable Wake-on-LAN function.

It contains the following sections:

- [Network Check](#)
- [Diagnostics](#)
- [Wake-On-LAN](#)

Network Check

You can scan the entire network to analyze and optimize network status via network check.

Network Check



If your device is unable to connect to the Internet or the network is unstable, you are recommended to test

START DETECTION

WAN	Check WAN port status, IP acquisition, and port rate limit	Not detected
Internet	Detect the connectivity status between devices, gateway, and network	Not detected
Wi-Fi	Detect Wi-Fi signal interference	Not detected
Memory	Check memory and CPU usage	Not detected

1. Access to **More>NET Tools>Network Check**.
2. Click on **START DETECTION**.

Network Check



Detection completed. The results are as follows:

ONE-CLICK REPAIR

WAN

Check WAN port status, IP acquisition, and port rate limit

WAN cable status	✓
WAN IP Status	✓
WAN Port Network Link limit	Link rate: 100M Full duplex

Internet

Detect the connectivity status between devices, gateway, and network

Ping Gateway Status	✓
Network	✓

Wi-Fi

Detect Wi-Fi signal interference

2.4G Wi-Fi Signal Status	✓
5G Wi-Fi Signal Status	Wi-Fi signal interference is strong !

Memory

Check memory and CPU usage

CPU Usage	12%
Memory Usage	55%

3. Click on "**ONE-CLICK REPAIR**" or manually optimize your network with prompts.

Diagnostics

Diagnostics

Ping Or Route Tracking

Ping

IP Address Or Domain Name

www.biyang.com

PING

```
PING www.biyang.com (202.89.233.100): 56 data bytes
64 bytes from 202.89.233.100: seq=0 ttl=117 time=44.165 ms
64 bytes from 202.89.233.100: seq=1 ttl=117 time=43.364 ms
64 bytes from 202.89.233.100: seq=2 ttl=117 time=43.051 ms
64 bytes from 202.89.233.100: seq=3 ttl=117 time=42.965 ms
```

```
--- www.biyang.com ping statistics ---
```

```
4 packets transmitted, 4 packets received, 0% packet loss
round-trip min/avg/max = 42.965/43.386/44.165 ms
```

1. Access to **More>NET Tools>Diagnostics**.
2. In the dropdown list **Ping Or Route Tracking**, choose **Ping** or **Traceroute**.
 - **Ping** : used for checking the connection between the router and the target device whether normal or not.
 - **Traceroute** : used for checking the node information between the router and the target device.
3. Input the **IP Address Or Domain Name** that you want to test.
4. Click on **PING** or **Traceroute** button for testing.

Wake-On-LAN

Wake-On-LAN (WOL) is a technology where the network interface card (NIC), along with other software and hardware, sends a specific data frame to the NIC that is in standby mode, enabling the computer to start up from a powered-off state.

1. Access to **More>NET Tools>Wake-On-LAN**.

Wake on LAN

☐	Describe	MAC	Hour	Minute	Repeat
No Data					

ADD

DELETE

2. Click on **Add** to start Wake-On-LAN setting.

Wake-up Configuration

Describe

Test

MAC

C0 : 25 : A5 : 9F : B5 : 2F

Time setting

12

Hour

00

Minute

Reboot Time

Su

Mo

Tu

We

Th

Fr

Sa

WAKE UP

SAVE

3. Add the **Describe** of the configuration.

4. Input the **Mac Address** of the device that you want to remotely wake up.

5. Set **Time setting** and **Reboot Time**.

6. Click on **SAVE**, complete the configuration.

Chapter 12 System Setting

This chapter introduces firmware update, password change, system log, system time setting, indicator setting, backup and restore, and how to restart router.

It contains the following sections:

- [Firmware Upgrade](#)
- [Change Password](#)
- [System Log](#)
- [Time Zone](#)
- [Led Control](#)
- [Backup & Restore](#)
- [Scheduled Reboot](#)

Firmware Upgrade

Regular firmware upgrade can obtain the newest functions and security patches, improving the performance and stability of the router, and fixing possible bugs and security risks.

WAVLINK provides two ways to upgrade your firmware: local upgrade and online upgrade. You can choose one of them to update your firmware.

Access to **More>System>Firmware Upgrade**.

WAVLINK see the world

Home

Wireless

Network

Clients

More

Device Status

Network

Wireless

Mesh

Net Guardian

NAT Forwarding

Security

VPN

Remote Access

NET Tools

System

Firmware Upgrade

Change Password

System Log

Time Zone

Led Control

Backup & Restore

Scheduled Reboot

Logout

Local Upgrade

Manually upgrade the firmware. You can download a new firmware file from the official WAVLINK website. The following devices are the same model as the devices you currently connect to.

	Mesh Device	Current Version
☐	Router	M30BE1_V251001
☐	Extender_C43E	M30BE1_V251001

New Firmware

Choose File

UPLOAD FILE

The following devices are different models from the devices you are currently connected to. You can upgrade them by clicking the Upgrade link to access the Manual Upgrade page.

Mesh Device	Current Version	Upgrade Link
Extender_C3D2	M30BE2_V251001	192.168.20.188

Online Upgrade

If the device has Internet access, you can upgrade online. After checking the latest firmware version, click the "ONE-CLICK UPGRADE" button.

	Mesh Device	MAC	Current Version	Latest Version	Update Contents
☐	Router	8A:26:3A:3:26	M30BE1_V251001	No new version available	--
☐	Extender_C43E	8A:26:3A:4:3E	M30BE1_V251001	No new version available	--
☐	Extender_C3D2	8A:26:3A:C3:D2	M30BE2_V251001	No new version available	--

CHECK FOR NEW VERSION

ONE-CLICK UPGRADE

Local Upgrade

1. Access to WAVLINK official website: www.wavlink.com. Download the corresponding upgraded software of the current hardware version.
2. Select the device that needs to be updated.
3. Click on **Choose File** or **File** icon, and select the firmware file that needs to be uploaded. Click on **UPLOAD FILE**.
4. Wait for the completion of updating.

NOTE:

- After updating, the router will automatically reboot to apply new firmware. The process will take few minutes to complete, please wait patiently.
- During updating, the router can't be powered off in case the router's firmware gets damaged.

Online Upgrade

1. Choose the device that needs to be updated.

2. Click on **CHECK FOR NEW VERSION** to view the upgradable version to update. Or directly use **ONE-CLICK UPGRADE**.
3. Wait for the update completion.

i NOTE:

- After updating, the router will automatically reboot to apply new firmware. The process will take few minutes to complete, please wait patiently.
- During updating, the router can't be powered off in case the firmware gets damaged.
- When CHECK FOR NEW VERSION, if the prompts show that the firmware is the newest version, there is no need to upgrade the router.

Change Password

Change Password

Old Password

New Password

The password should be at least 6 characters

Confirm New Password

The password should be at least 6 characters

SAVE

1. Access to **More>System>Change Password**.
2. Input the current one on the **Old Password** text field.
3. Input the new one on the **New Password** text field.
4. Input the new one on the **Confirm New Password** text field, ensuring the input password is the same as the new password.
5. Click on **SAVE** to complete password changing.

System Log

When it comes to malfunction, reserve the system log and send it to technical support for trouble shooting.

```
Tue Nov 19 13:36:38 2024 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Tue Nov 19 13:36:57 2024 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 03 07:28:26 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:28:31 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 03 07:28:34 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:28:36 2025 [USER] login successful, ::ffff:192.168.20.215.  
Fri Jan 03 07:29:35 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:29:36 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 3 07:29:42 2025 [LAN] [DHCPV4] 5a:84:bd:8d:40:8b, 192.168.20.187, *.  
Fri Jan 03 07:29:47 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:29:52 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 03 07:29:57 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:30:09 2025 [LAN] [DHCPV4] 7a:3a:ee:28:37:08, 192.168.20.135, LAU.  
Fri Jan 3 07:31:23 2025 [USER] login successful, ::ffff:192.168.20.215.  
Fri Jan 03 07:31:57 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:32:02 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 3 07:32:02 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 03 07:32:09 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:32:14 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 03 07:32:19 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:32:24 2025 [USER] login successful, ::ffff:192.168.20.215.  
Fri Jan 3 07:33:03 2025 [LAN] [DHCPV4] 5a:84:bd:8d:40:8b, 192.168.20.187, *.  
Fri Jan 3 07:33:47 2025 [LAN] [DHCPV4] 7a:3a:ee:28:37:08, 192.168.20.135, LAU.  
Fri Jan 3 07:34:06 2025 [LAN] [DHCPV4] 5a:84:bd:8d:40:8b, 192.168.20.187, *.  
Fri Jan 3 07:35:34 2025 [LAN] [DHCPV4] 5a:84:bd:8d:40:8b, 192.168.20.187, *.  
Fri Jan 3 07:37:28 2025 [LAN] [DHCPV4] 5a:84:bd:8d:40:8b, 192.168.20.187, *.  
Fri Jan 03 07:38:26 2025 [WAN] [DHCPV4] ip: 172.16.2.111, gw: 172.16.2.1.  
Fri Jan 3 07:38:31 2025 [LAN] [DHCPV4] c0:25:a5:9f:b5:2f, 192.168.20.215, DESKTOP-BJ3F5MU.  
Fri Jan 3 07:38:31 2025 [LAN] [DHCPV4] 7a:3a:ee:28:37:08, 192.168.20.135, LAU.
```

1. Access to **More>System>System Log**.
2. Click on **Export log** to save the log to the computer.

Time Zone

The system time is the time displayed when the router is running. The system time you set here is used for other time-based features, like Parental Control.

Time Zone

Current Time

2025/01/03 08:43:37

Time Zone

(UTC-00:00) Dublin, Edinburgh, Lisbon, I ▼

Daylight Saving Time (DST)



SAVE

1. Access to **More>System>Time Zone**.
2. Choose the right time zone in the dropdown list of **Time Zone**.
3. Turn on/off **Daylight Saving Time(DST)**.
4. Click on **SAVE** to complete the configuration.

Led Control

The router's indicators are used for indicating the device's status or running. By setting the indicator, you can know the device's working status more clearly, find and ban machine problems in time.

Led Control

Led Status



SAVE

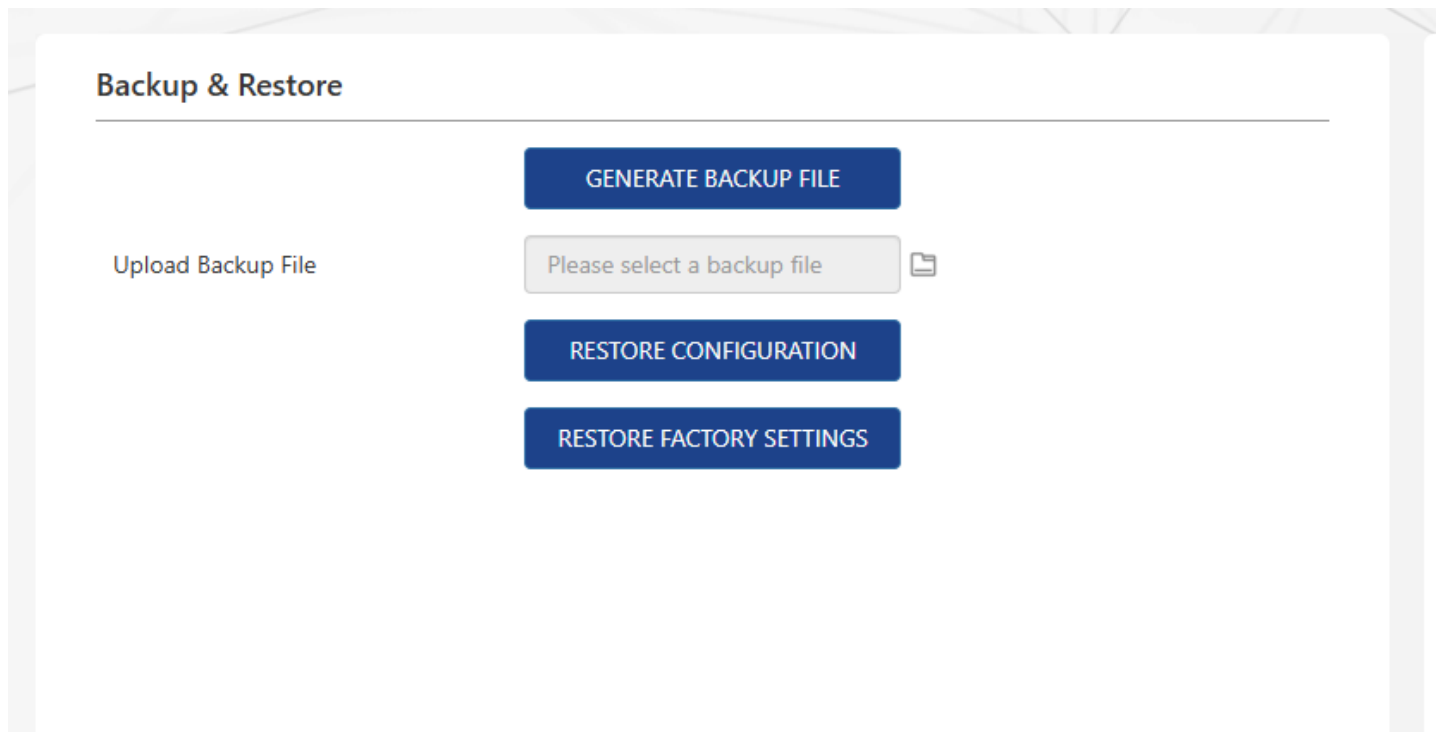
1. Access to **More>System>Led Control**.
2. Turn on/off **LED Status**.
3. Click on **SAVE** to complete the configuration.

Backup & Restore

Please configure settings as a configuration file stored in the router. You can backup this configuration file into your computer for future use, and restore the router to the

previous setting with this backup file. Furthermore, if necessary, you can delete the current system setting and reset the router to the default factory settings.

Access to **More>System>Backup & Restore**.



Backup the current configuration of the router

Click on **GENERATE BACKUP FILE** to store the copy of current setting on the local computer, and name the file **backupsettings**.

Restore the router's configuration:

1. Click on **UPLOAD**, and choose the backup configuration file that was stored on the computer.
2. Click on **RESTORE CONFIGURATION**, and wait a few minutes to restore the configuration and restart the router.

Reset the router to the default factory settings

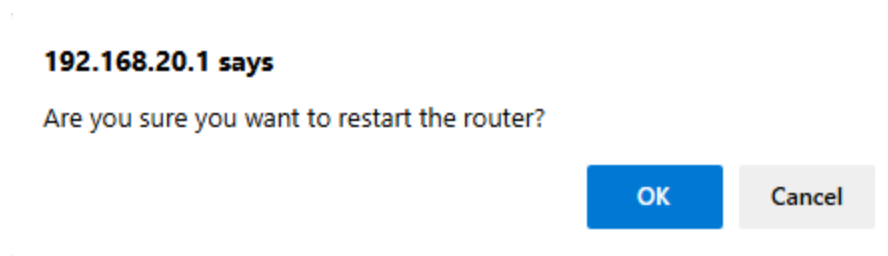
1. Click on **RESTORE FACTORY SETTINGS** to reset the router.
2. Wait a few minutes for the reset and reboot.

Scheduled Reboot

When your router has a network malfunction, you can try to use the reboot function to solve the problem. Sometimes, the router may experience software errors or memory overflow issues, leading to network instability. Under these circumstances, you can reboot the router to solve this problem and get the network back up.

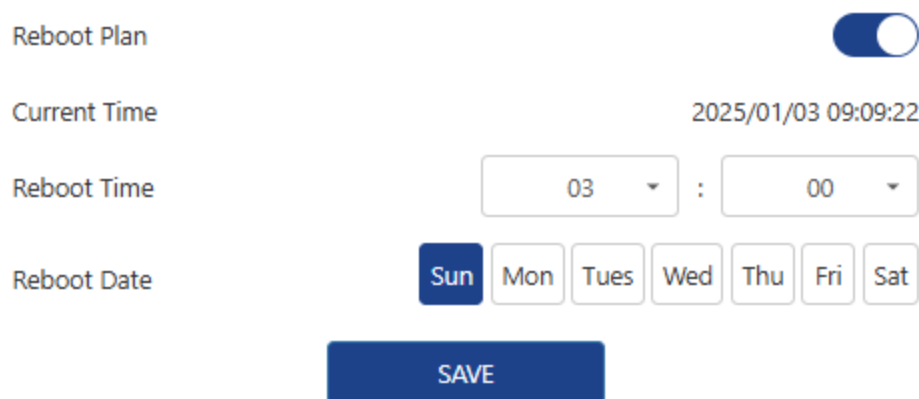
After modifying some settings of this router, you need to reboot the router to make the settings valid. Using the reboot function can quickly update the router's settings and make it valid.

1. Access to **More>System>Scheduled Reboot.**
2. Click on **ROUTER REBOOT.**



3. After clicking, a window will pop up, in which you will be asked whether to restart the router or not. If you want to reboot the router, choose **OK**. If not, choose **Cancel**.

Set Scheduled Reboot Plan



The automatic reboot function can clear unnecessary data in the router and automatically choose the best wireless channel.

Before turning on Reboot Plan, please ensure the system time is right. If the router's designated reboot time is less than 60 minutes, some unnecessary reboots won't be executed.

1. Access to **More>System>Scheduled Reboot.**

2. Turn on **Reboot Plan**.

3. Choose the router's **Reboot Time**, and the **Reboot Date** to decide on reboot frequency.

4. Click on **SAVE** to complete the configuration.

Chapter 13 Logoff

Logoff

If you need to log out, please access to **More** on the management page, then click on **Logout**.

Chapter 14 FAQ

- [FAQ](#)
- [After-sales Service](#)

FAQ

Q1. Why doesn't the login page appear after entering <http://wavlogin.link> ?

Please make sure your computer is set to obtain an IP address automatically. Verify if <http://wavlogin.link> is correctly entered in the web browser. Use another web browser and try it again. Reboot your router and try it again. Try to use 192.168.20.1 to login the management page.

Q2. What should I do if I can't access the Internet?

Restart your modem(wait 5 minutes). Disconnect extra Ethernet ports from the modem. Test by connecting a computer directly to the modem. If issues persist, contact your ISP.

Check the router's web management page:

- Verify Internet IP validity on the Network Map.
- If valid, set DNS1 to 8.8.8.8 and DNS2 to 8.8.4.4 under More>Network>Internet>Custom DNS.
- If invalid, check hardware or contact ISP.

For cable modems, clone the MAC address of the device which could get Internet from the modem via Ethernet cable in More>Network>Internet>MAC Clone>Custom MAC, then reboot modem and router.

Q3. How can I restore the router to its factory default settings?

While the router is powered on, press and hold the Reset button for more than 6 seconds.

Q4. What can I do if I forget my Administration Management password?

Refer to FAQ:Q3 to reset the router.

Q5.What can I do if I forget my wireless network password?

Log in the router's web management page at <http://wavlogin.link> and go to Wireless, you can find your Wi-Fi password here.

Q6. How to deploy the router to get the best Wi-Fi signal?

Keep the router in the most central spot in your home and away from anything that might block its signal.

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After-sales Service

Need help?

We're here for you!



Online support: [wavlink.com](https://www.wavlink.com)

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



support@wavlink.com

Available Mon-Fri 8:30 am-5:30pm (UTC+8)



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Mon-Fri 9:00 am - 6:00 pm (UTC-5)

www.wavlink.com



**Thank you for purchasing
WAVLINK product!**

Chapter 15 After-sales-Service_CE_FCC

- [Safety and Emission Statement](#)

Safety and Emission Statement

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

NOTE:

(1)The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2)To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

Declaration of Conformity

Hereby, Winstars Technology Limited, declares that the radio equipment type Skyline Stream4 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following Internet address:https://www.wavlink.com/en_us/ce.html

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or

television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

NOTE:

(1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.