

Grandstream Networks, Inc.

---

**GWN707x Home-Use Router User Manual**



# GWN707x Home-Use Router User Manual

The **GWN7072** is a high-performance, secure tri-band Wi-Fi 7 (IEEE 802.11be) router designed for modern homes and small offices. Using the 2.4 GHz, 5 GHz, and 6 GHz bands, it delivers aggregate wireless speeds of up to **11 Gbps**, supports up to **128 concurrent wireless clients**, and provides coverage up to **175 m<sup>2</sup> (1,883.68 ft<sup>2</sup>)**.

The router provides one **10 GbE Combo WAN port (SFP+ or RJ45)**, one **2.5 GbE autosensing WAN/LAN port**, three **2.5 GbE LAN ports**, and one **USB 3.0 port**. This multi-Gigabit design supports high-speed Internet access, local networking, storage sharing, network printing, and USB WAN connectivity.

Tri-band Wi-Fi 7 capabilities, including **Multi-Link Operation (MLO)**, MU-MIMO, and beamforming, improve throughput, latency, capacity, and reliability. The GWN7072 also supports wireless Mesh networking with compatible Grandstream routers and the GWN7660EM access point, with up to **16 mesh nodes** for unified network expansion.

Advanced firewall protection, content control, parental controls, unique device certificates, and random default passwords help secure the network. The router supports up to **50 VPN tunnels**, including L2TP, PPTP, IPSec, OpenVPN(R), WireGuard(R), and SSL VPN.

Management is available through the built-in Web UI, GDMS Networking, GWN Manager, the GWN App, and the Grandstream Home App. Intelligent QoS, application monitoring, and Deep Packet Inspection (DPI) help prioritize traffic and provide daily, weekly, and monthly usage visibility.

By combining tri-band Wi-Fi 7, 10 Gigabit WAN connectivity, multi-Gigabit LAN ports, flexible management, and enterprise-grade security, the GWN7072 provides a fast and scalable home-use routing platform.



Changes or modifications to these products not expressly approved by Grandstream, or operation of these products in any way other than as detailed by this User Manual, could void your manufacturer warranty.

Please do not use a different power adaptor with the GWN70xx routers as it may cause damage to the

products and void the manufacturer warranty.

# PRODUCT OVERVIEW

## Technical Specifications

### Hardware Specifications

| Category                  | GWN7072 specification                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------|
| Dimensions and weight     | 104 x 104 x 226 mm; 0.846 kg                                                                        |
| Installation              | Desktop                                                                                             |
| Antennas                  | 6 single-frequency antennas: 2 x 3.5 dBi (2.4 GHz), 2 x 5.5 dBi (5 GHz), and 2 x 5.5 dBi (6 GHz)    |
| Frequency bands           | 2.4 GHz: 2400-2483.5 MHz; 5 GHz: 5150-5895 MHz; 6 GHz: 5925-6425 MHz (regional availability varies) |
| Channel bandwidth         | HT20/40; VHT20/40/80; HE20/40/80/160/240; EHT20/40/80/160/320                                       |
| Coverage                  | Up to 175 m2 (1,883.68 ft2), depending on the environment                                           |
| Network ports             | 1 x 10 GbE Combo WAN (SFP+ or RJ45); 1 x 2.5 GbE autosensing WAN/LAN; 3 x 2.5 GbE LAN; 1 x USB 3.0  |
| Other ports               | Reset pinhole, SYNC button, and power input                                                         |
| LEDs                      | 1 tri-color system LED and 8 dual-color LEDs                                                        |
| Maximum power consumption | 28.98 W                                                                                             |
| Environment               | Operating: 0-40 °C; storage: -30-60 °C; humidity: 10%-90% non-condensing                            |

GWN7072 Hardware Specifications

### Software Specifications

| Category         | GWN7072 specification                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Wi-Fi standard   | Wi-Fi 7 (IEEE 802.11 a/b/g/n/ac/ax/be), tri-band 2.4/5/6 GHz                                                                   |
| SSIDs            | Up to 16 SSIDs                                                                                                                 |
| Encryption       | Open System, WPA/WPA2, WPA2, WPA2/WPA3, WPA3, and WPA3-192; unique security certificate and random default password per device |
| Wireless clients | Up to 128 concurrent clients                                                                                                   |
| Mesh             | Up to 16 nodes; compatible with GWN mesh-enabled routers and the GWN7660EM                                                     |
| WAN              | Static IP, DHCP, PPPoE, PPTP, and L2TP; Dual WAN with failover, load balance, and standby policies                             |
| VPN              | Up to 50 tunnels: L2TP, PPTP, IPSec, OpenVPN(R), WireGuard(R), and SSL VPN                                                     |
| Performance      | 10 Gbps NAT throughput; 64K NAT sessions; up to 512 clients                                                                    |
| USB applications | USB LTE dongle/USB WAN, network printing, storage, and file sharing                                                            |
| Working modes    | Router, Wireless Bridge, and Wireless Relay                                                                                    |
| Management       | Local Web UI, GDMS Networking, GWN Manager, GWN App, and Grandstream Home App                                                  |

## Service Ports

The following service ports are used by the router. These ports enable features such as remote management, device discovery, secure UI access, and portal-based authentication services:

| Port | Protocol | Description                                                                                        |
|------|----------|----------------------------------------------------------------------------------------------------|
| 14   | UDP      | Used for automatic discovery of GWN Access Points within the local network (proprietary protocol). |
| 53   | UDP      | Built-in DNS service for hostname resolution on the local network.                                 |
| 80   | TCP      | HTTP access; used as an initial entry point and redirects to HTTPS (port 443).                     |
| 443  | TCP      | HTTPS web interface; provides secure access to the GWN management UI.                              |
| 8080 | TCP      | Captive portal redirect for guest access and authentication workflows.                             |
| 8443 | TCP      | Encrypted web authentication; used for secure access to captive portal and guest services.         |
| 9443 | TCP      | Business portal services, such as voucher-based log downloads and extended access features.        |
| 22   | TCP      | Secure Shell (SSH) used for CLI access and remote command-line management.                         |

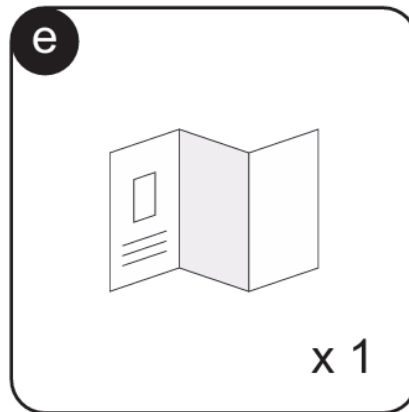
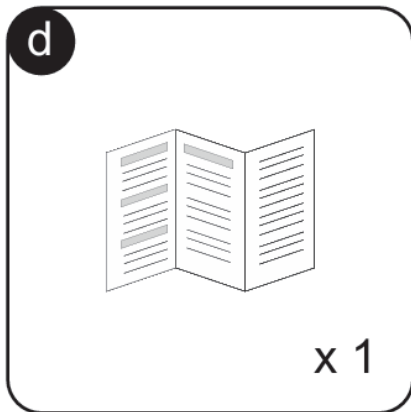
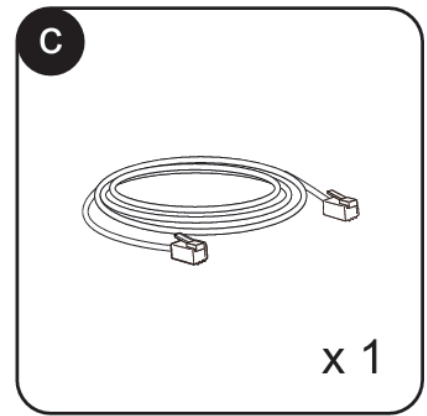
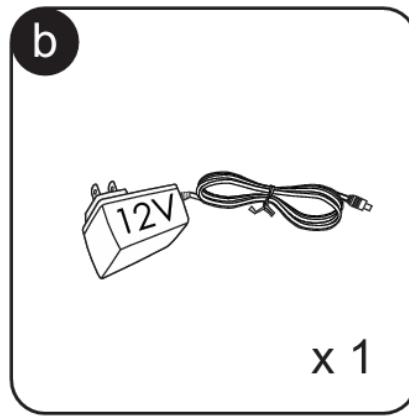
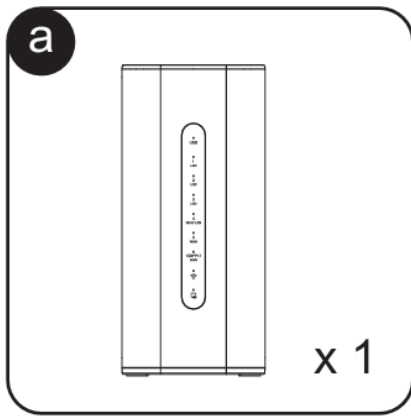
*Service Ports*

These ports apply specifically to the GWN7072 documented in this manual.

## INSTALLATION

Before deploying and configuring the router, the device needs to be properly powered up and connected to the network. This section describes detailed information on the installation, connection, and warranty policy of the router.

### Package Contents

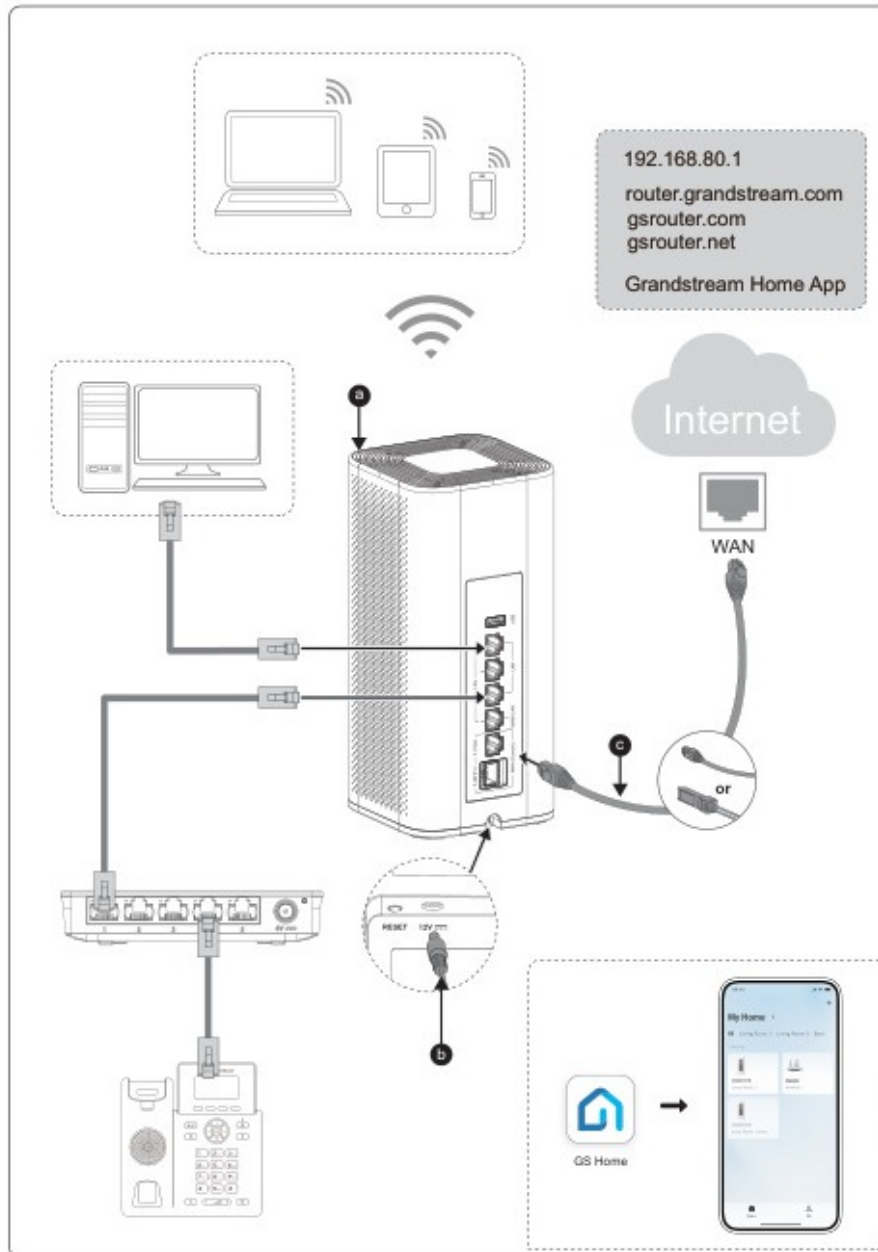


*GWN7072 Package Contents*

## Powering and Connecting

This section explains how to properly connect the **GWN7072** to power, WAN, and devices.

1. Connect the **WAN port** to the uplink.
2. Plug in the **power adapter** and turn the unit on.
3. Wait until the device is powered up and Wi-Fi is active (Wi-Fi LEDs will blink).
4. Use a computer or mobile device to connect to the default SSID or LAN port.



*GWN7072 powering and connection diagram*

## Scan the QR Code

To easily set up, manage your router, and quickly connect to Wi-Fi using your phone, scan the QR code on the device label with the **Grandstream Home App**.

## Connect to Wi-Fi



*Scan the QR Code*

### Steps:

1. **Download the Grandstream Home App** from the App Store or Google Play: Grandstream Home App Guide
2. Launch the app and sign in or register.
3. Tap the "+" icon to add a new device.
4. Scan the **QR code** located at the bottom of the router.
5. Follow the steps provided in the app to complete device setup.

For more details on app features, configuration options, and remote management tools, visit the full guide: **Grandstream Home - User Guide**

The default SSID password is printed on the MAC tag of the unit.

The GWN7072 complies with applicable regional safety and regulatory standards. The device power adapter is compliant with the UL standard. Use the universal power adapter provided with the device package only. The manufacturer's warranty does not cover damage to the device caused by unsupported power adapters.

If the GWN7072 was purchased from a reseller, please contact the company where the device was purchased for replacement, repair, or refund. If the device was purchased directly from Grandstream, contact our Technical Support Team for an RMA (Return Materials Authorization) number before the product is returned. Grandstream reserves the right to revise the warranty policy without prior notice.

# GETTING STARTED

The GWN7072 provides an intuitive Web GUI for easy access to its configuration and management options. This section provides step-by-step instructions for interpreting the LED indicators and using the Web GUI.

## LED Indicators

The GWN7072 provides **9 LED indicators**: one tri-color system LED and eight dual-color LEDs for USB, Wi-Fi, LAN, the 2.5 GbE WAN/LAN port, and the RJ45/SFP+ interfaces of the 10 GbE Combo WAN port. **The table below describes the colors and behavior of the system status LED only.**

| System LED Status | Indication                                                                                                                                                                                                                                                                                                                                               |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Off               | The router is powered off.                                                                                                                                                                                                                                                                                                                               |
| Solid Blue        | Internet is connected.Normal operation.Mesh network successfully established.Wireless Relay or Wireless Bridge mode is enabled and connected to an upstream Wi-Fi network.                                                                                                                                                                               |
| Flashing Blue     | Configuration is being applied.Restoring configuration.                                                                                                                                                                                                                                                                                                  |
| Flashing Pink     | When the main router scans for sub-routers, the main router's pink LED flashes slowly, and the sub-router's pink LED also flashes slowly when detected by the main router.When the main router is actively adding (pairing) a sub-router, both the main router's and sub-router's pink LEDs flash faster, indicating the pairing process is in progress. |
| Solid Pink        | The router has detected a WAN connection, but the Quick Setup Wizard has not been completed yet.The device is in Mesh standby mode ready for pairing, but the Mesh process hasn't been started.                                                                                                                                                          |
| Flashing Green    | Firmware upgrade in progress.                                                                                                                                                                                                                                                                                                                            |
| Solid Green       | Device booting up.Rebooting.                                                                                                                                                                                                                                                                                                                             |
| Flashing Red      | Factory reset in progress.Device is locked.                                                                                                                                                                                                                                                                                                              |
| Solid Red         | Firmware upgrade failed.Mesh pairing failed.                                                                                                                                                                                                                                                                                                             |
| Solid Yellow      | Mesh node router is disconnected from the primary router.Wireless Relay or Wireless Bridge mode is enabled, but no uplink SSID is currently connected.                                                                                                                                                                                                   |
| Flashing Yellow   | No Internet connection.                                                                                                                                                                                                                                                                                                                                  |

LED Indicators

## Use the Web GUI

### Access the Web GUI

The router's embedded web server responds to HTTPS requests and provides a Web GUI for device configuration. Use a current version of Microsoft Edge, Mozilla Firefox, or Google Chrome.



## Sign in to GWN7072

Username

Password

Sign In



Grandstream Home

Download

Web GUI Login Page

To access the Web GUI:

1. Connect a computer to a LAN port of the router.
2. Ensure the device is properly powered up.
3. Open a Web browser on the computer and enter the web GUI URL in the following format:  
https://192.168.80.1 (Default IP address).
4. Enter the administrator's login and password to access the Web Configuration Menu. The default administrator's username is "admin" and the default password is printed on the MAC tag of the unit.

## Download Grandstream Home APP



You can download the Grandstream Home APP to remotely manage your router devices.,

Scan the QR code with your phone for instant installation.



Web GUI Login Page

Clicking the "**Download Grandstream Home APP**" link will open a QR code pop-up. This QR code redirects users to a download page where they can choose to install the app on:

- **Android(R)** via the Google Play Store
- **iOS(R)** via the Apple App Store

The Grandstream Home App allows you to remotely monitor, configure, and manage the router directly from your mobile device.

For full setup and management instructions, refer to the official app guide: [Grandstream Home App User Guide](#)

At first boot or after a factory reset, users will be asked to change the default administrator and user passwords before accessing the device's web interface. The password field is case-sensitive with a maximum length of 32 characters. Using strong passwords including letters, digits, and special characters is recommended for security purposes.

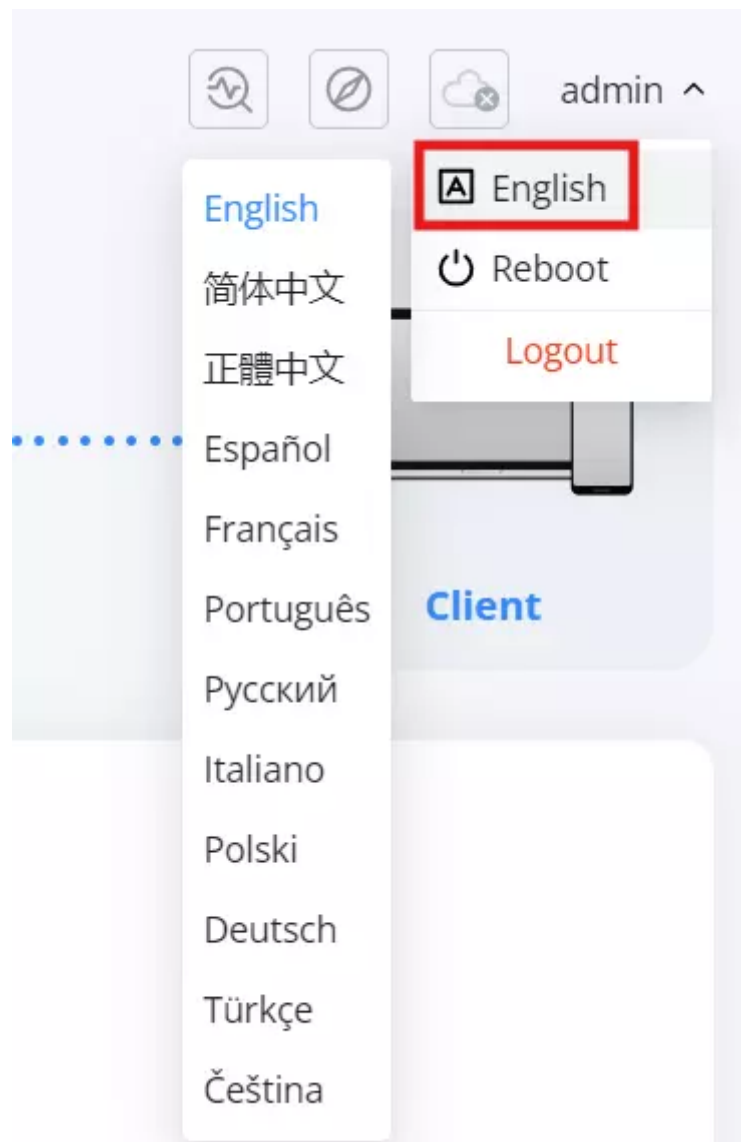
After signing in, the Network Map page displays general router information and network status.



Web GUI Configuration

## Web UI Language

The router web interface supports multiple languages, allowing users to navigate and configure settings in their preferred language.



*Change language*

### Steps to Change the Language:

#### 1. Locate the Language Menu:

- In the top-right corner of the web interface, click on the **admin** dropdown menu.

#### 2. Select a Language:

- A list of available languages will appear.
- Choose the desired language by clicking on it.

#### 3. Apply Changes:

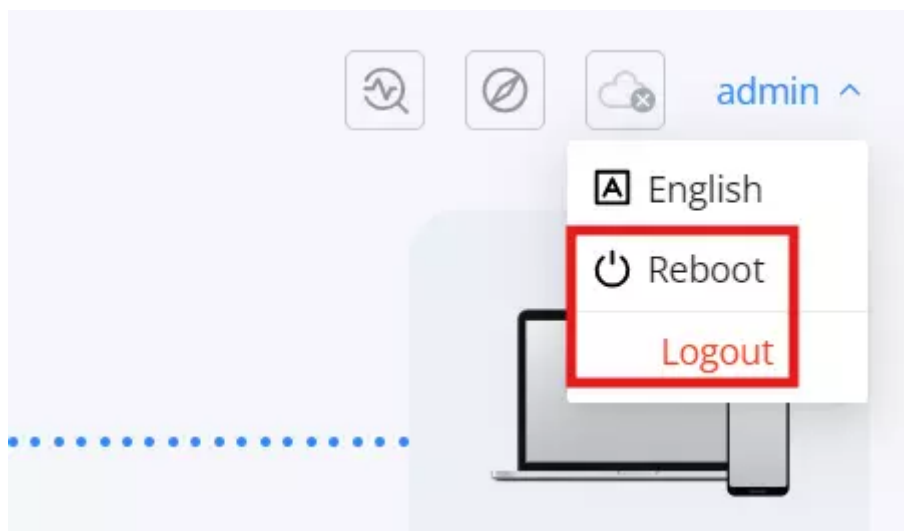
- The interface will refresh automatically and switch to the selected language.

This setting ensures users can interact with the router's interface in their native or preferred language, improving usability and accessibility.

## Rebooting or Logging Out

The **Reboot** and **Logout** options are located in the **top-right corner** of the web interface under the **admin** menu.

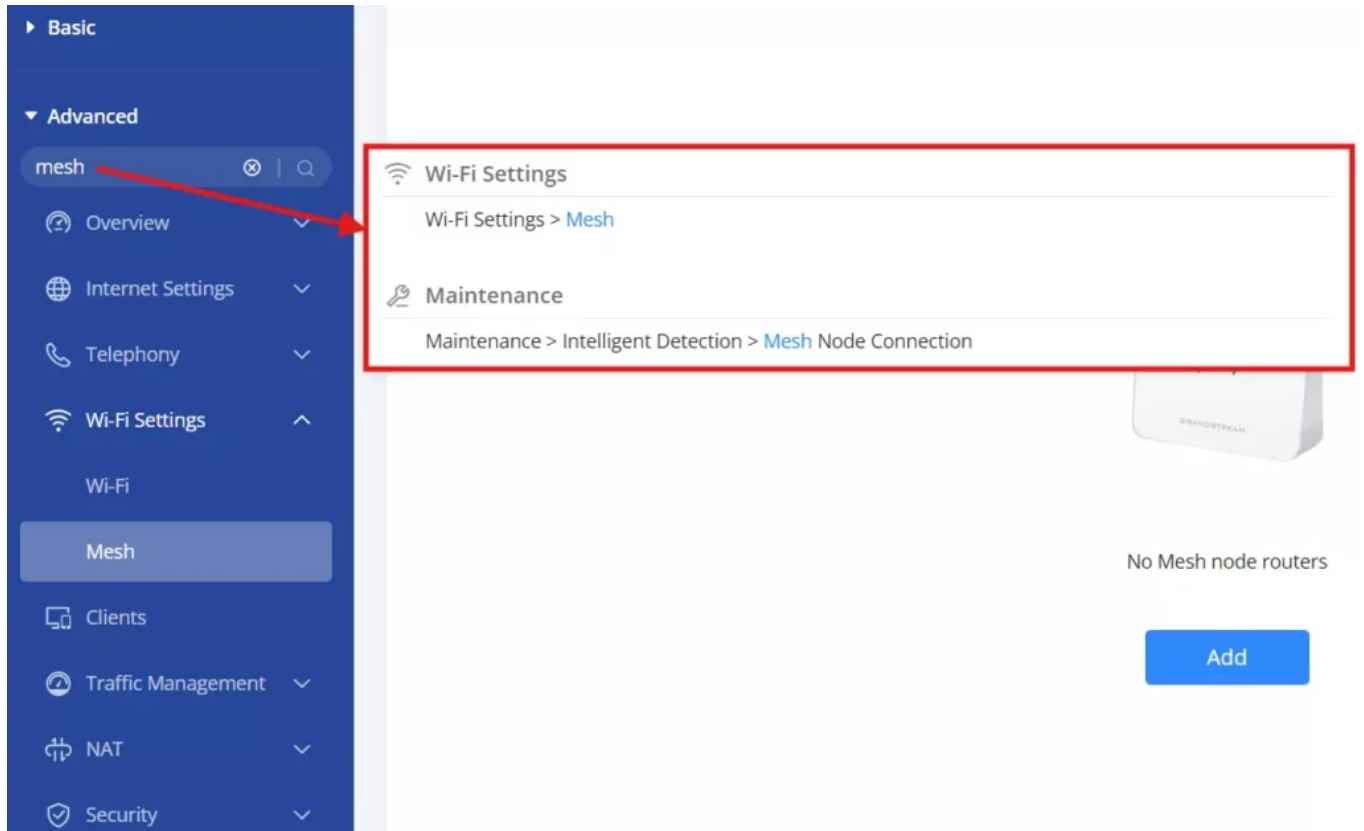
- **Reboot:** Click on **Reboot** to restart the router. This will temporarily disconnect all network connections and may take a few minutes to complete.
- **Logout:** Click on **Logout** to securely exit the web interface. You will need to log in again to access the settings.



*Rebooting or Logging Out*

## Search

To make it easier for the user to find a particular option quickly, the device's web UI has a search feature. Users can access this feature by clicking on the search bar at the top of the left-hand menu under Advanced and typing the desired option name.



Search

## Quick setup

**GWN7072 note:** Quick setup includes the 2.4 GHz, 5 GHz, and 6 GHz bands.

If the user skips the Setup Wizard during initial startup, it remains available from the top of the page and guides the user through four configuration steps.



Quick Setup

### 1. Time Zone

In this step, the user configures the time settings for the device. The **Country/Region** should be selected from the dropdown menu to ensure accurate localization. The **Time Zone** will be set automatically based on the selected region, but the user can adjust it manually if needed. Once the appropriate settings are selected, the user should click the **Next** button (blue arrow) to proceed to the next step.

# Quick Setup

Time Zone

Internet Settings

Wi-Fi Settings

Automatic Upgrade

1

2

3

4

Country / Region

Morocco

Time Zone

(UTC+01:00) Brussels,Copenhagen,Madrid,Paris

Exit

>

Quick Setup Time Zone

## 2. Internet Settings

In this step, the user selects the appropriate **Internet Connection Type** to establish network connectivity. The available options include **Dynamic IP**, **Static IP**, **PPPoE**, **L2TP**, and **PPTP**. The selection should be based on the user's internet service provider (ISP) requirements. If unsure, the user should consult their ISP for the correct settings. Once the connection type is chosen, the user should click the **Next** button (blue arrow) to proceed to the next step.

**Quick Setup**

Time Zone    Internet Settings    Wi-Fi Settings    Automatic Upgrade

1    2    3    4

WAN2

4  
WAN/LAN

ⓘ After setting, it will be fixed as WAN port

Internet Connection Type

Dynamic IP

- Dynamic IP
- Static IP
- PPPoE
- L2TP
- PPTP

Exit    <    >

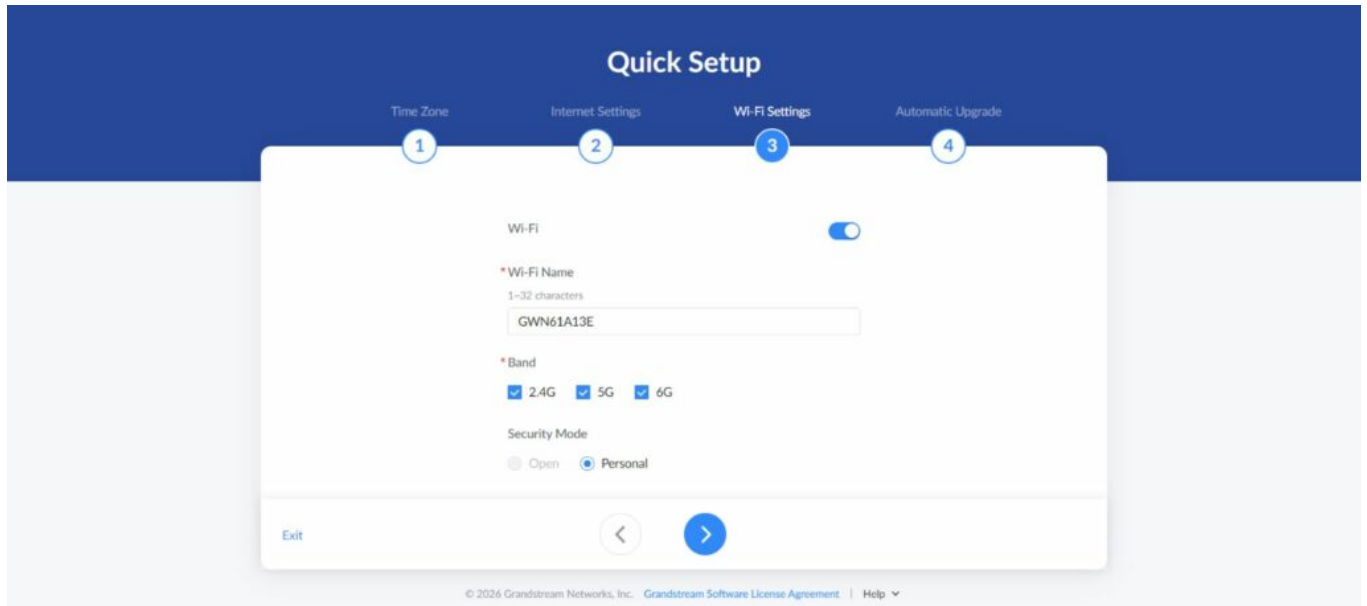
Quick Setup Internet Settings

### 3. Wi-Fi Settings

In this step, the user configures the wireless network details for the SSID that will be broadcast by the device.

- **Wi-Fi Name (SSID):** Enter the wireless network name (1-32 characters).
- **Band:** Select one or more supported bands: **2.4G**, **5G**, and **6G**.
- **Security Mode:** Choose the security type:
  - **Open:** No password is required.
  - **Personal:** The network is secured and requires WPA settings and a password.
- **WPA Mode:** (Available when **Security Mode** is set to **Personal**) Select the WPA option: **WPA/WPA2**, **WPA2**, **WPA2/WPA3**, or **WPA3**.
- **Password:** (Available when **Security Mode** is set to **Personal**) Enter the Wi-Fi password. The password can be **8-63 ASCII characters** or **8-64 hex characters**.

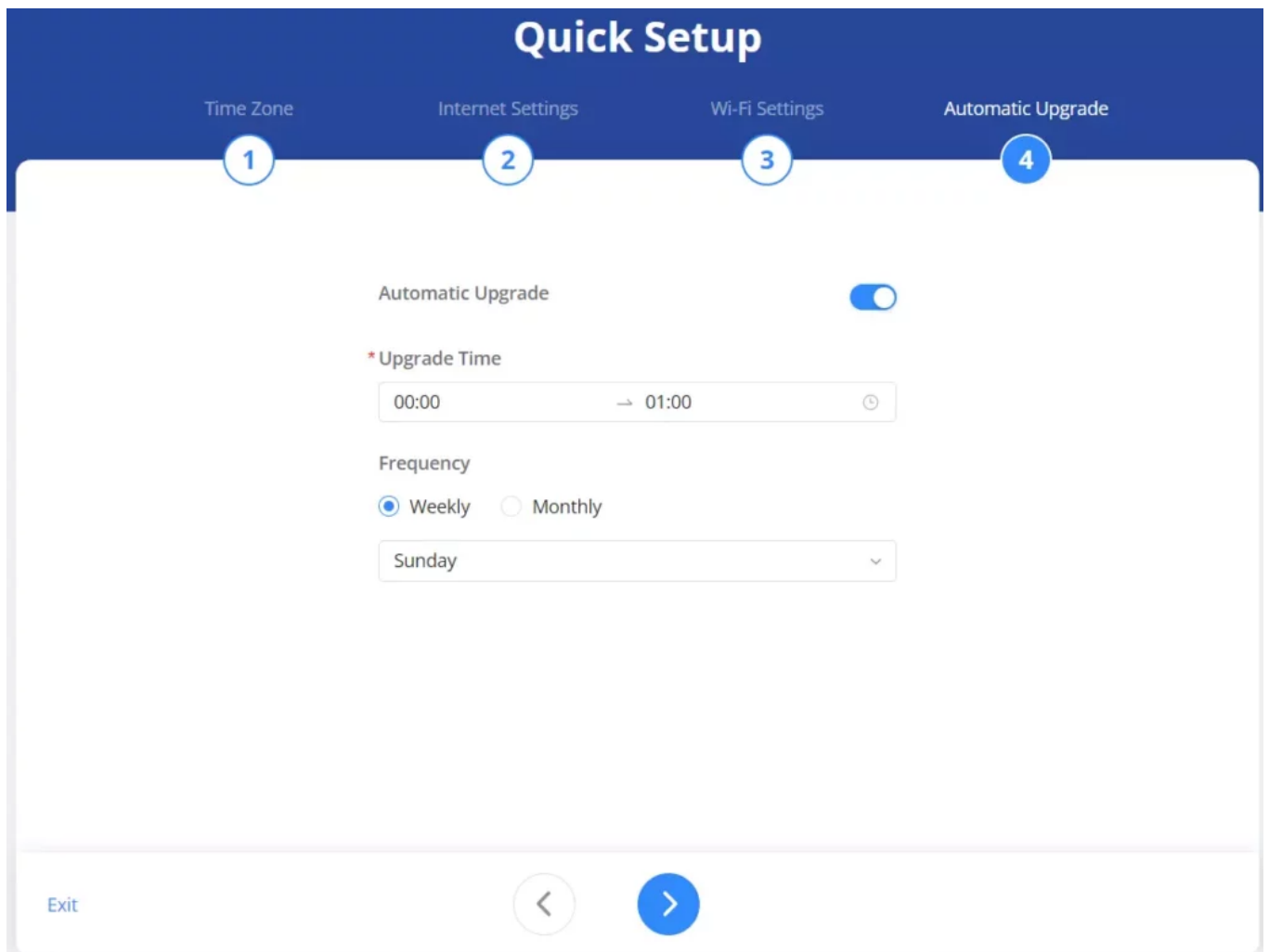
Once the settings are configured, click the **Next** button (blue arrow) to proceed.



Quick Setup Wi Fi Settings

#### 4. Automatic Upgrade

In this step, the user sets up the **Automatic Upgrade** feature to ensure the device stays updated with the latest firmware. The user can enable or disable automatic upgrades using the toggle switch. If enabled, the **Upgrade Time** must be specified within a chosen time range. The user also selects the **Frequency** of updates, either **Weekly** or **Monthly**, and specifies the preferred day for the upgrade. Once the settings are configured, the user should click the **Next** button (blue arrow) to complete the setup.



## GDMS Networking - Cloud Management

**GDMS (Grandstream Device Management System) Networking** allows users to register and manage the router remotely via the cloud. Once registered, the router can be monitored and configured from anywhere, providing enhanced flexibility and centralized control.



GDMS Networking Cloud Management

### Benefits of GDMS Networking:

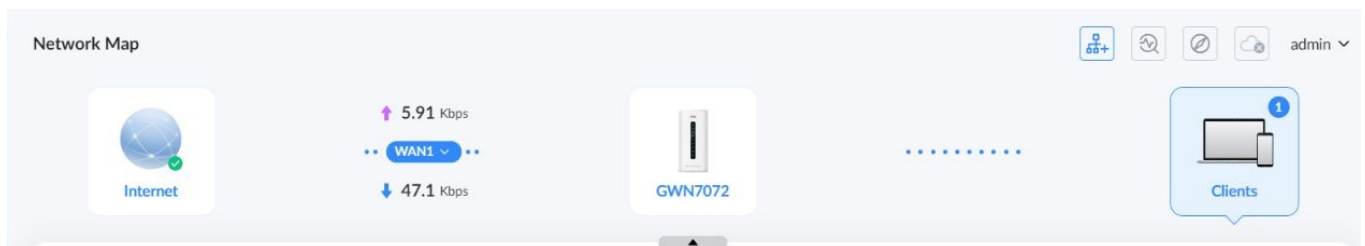
- **Remote Management:** Configure and monitor the router from anywhere.
- **Multi-Device Control:** Manage multiple routers under one platform.
- **Firmware Updates:** Apply updates remotely for enhanced security and performance.
- **Real-Time Monitoring:** Track network status, connected devices, and traffic analytics.

For more details, visit: [GDMS Networking - User Guide](#)

### Mesh Network Shortcut

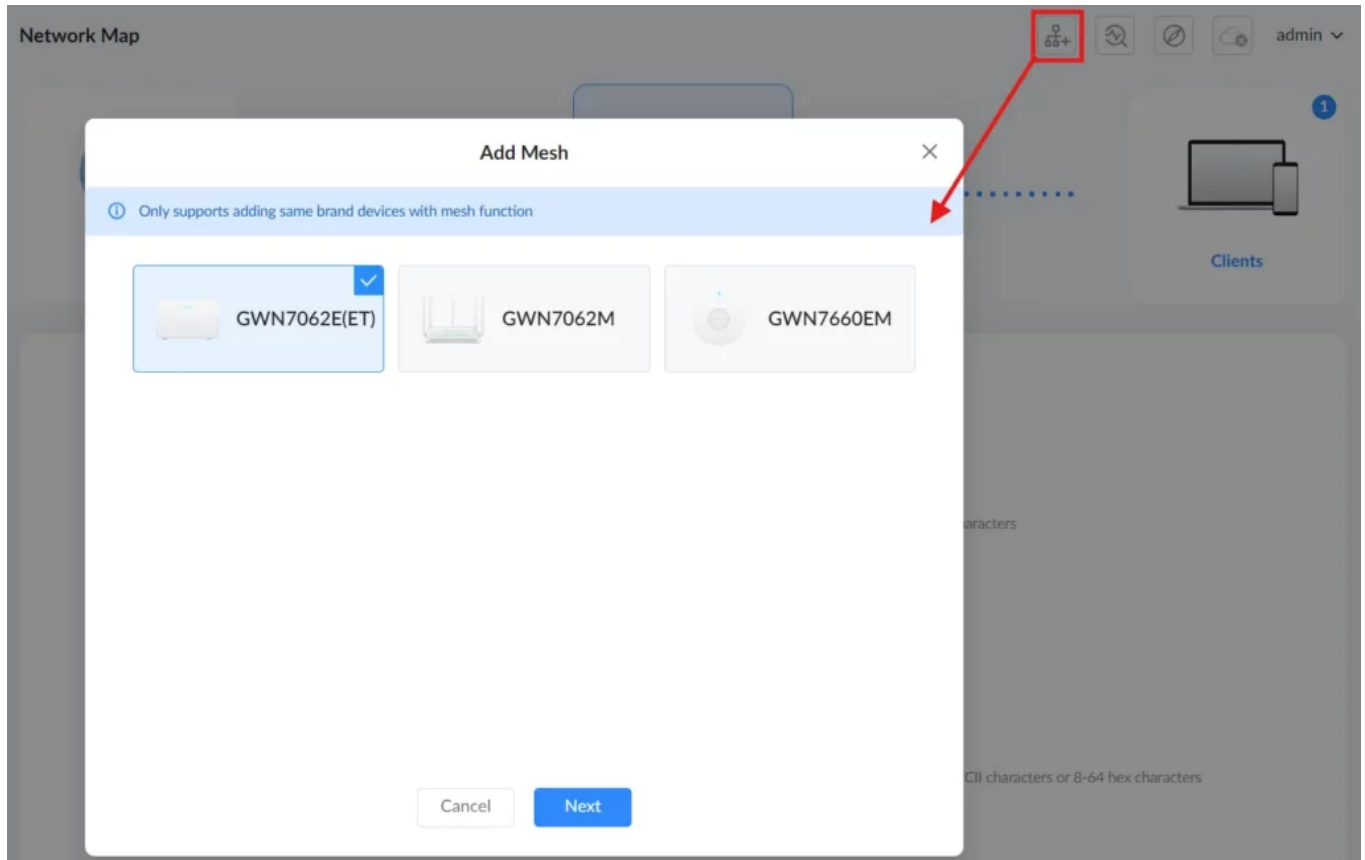
A Mesh Network shortcut is available in the top-right corner of the Network Map page. It provides quick access to the Add Mesh wizard, allowing users to add a new device to an existing Mesh network.

Click the Add New Router shortcut (top-right icon on the Network Map page) to open the Add Mesh wizard.



Mesh Network Shortcut

In the Add Mesh window, select the model of the device you want to add (for example, GWN7062E(ET), GWN7072, or GWN7660EM), then click Next. After selecting a model, the wizard displays model-specific preparation guidance, including illustrations that show the correct button locations and required steps for that device.



*Mesh Network Shortcut Select the model*

For **detailed configuration instructions**, refer to the [Mesh Section](#).

## BASIC

**Basic** mode is designed for users who need quick access to essential networking features without the complexity of advanced configurations. This mode includes:

- **Network Map:** A visual overview of the router's connection status, current internet speed, and connected clients.
- **Traffic Statistics:** Real-time monitoring of bandwidth usage across your network.
- **QoS (Quality of Service):** Tools to prioritize traffic for certain apps or devices, improving network performance.
- **HomeCare:** Includes Parental Control, SafeSearch, and basic firewall rules for better control and security.
- **Management Platform:** Offers management through:
  - **Grandstream Home App** (Recommended) - Scan the QR code or click here to learn how to manage your router using the mobile app (available on Android(R) and iOS(R)).
  - **Cloud Access** - Optional integration with Grandstream's cloud platform (GDMS.Cloud) or on-premise (GWN Manager) for extended configuration.

This mode is ideal for home users, remote workers, and small businesses seeking essential network functionality with simple setup and mobile-first control.

## Network Map

**GWN7072 note:** The Network Map includes 6 GHz and MLO client information, including real-time rate and

filtering details when supported by the connected client.

The **Network Map** page provides a comprehensive overview of the router's current status, network connections, and active clients. It dynamically updates based on user interaction, displaying relevant details about the router, connected devices, and network settings.

To navigate to the **Network Map**:

1. Log in to the **Web UI** of the router.
2. In the left menu, click on **Basic -> Network Map**.

This page displays an **overview of the router's network topology**, including Internet connection, primary router status, Mesh Nodes, and connected clients.

### Collapsible Network Map:

The **Network Map** includes a **collapsible panel feature**, allowing users to expand or collapse detailed network information for a cleaner and more efficient interface.



*Collapsible Network Map*

### How to Use the Collapse/Expand Feature:

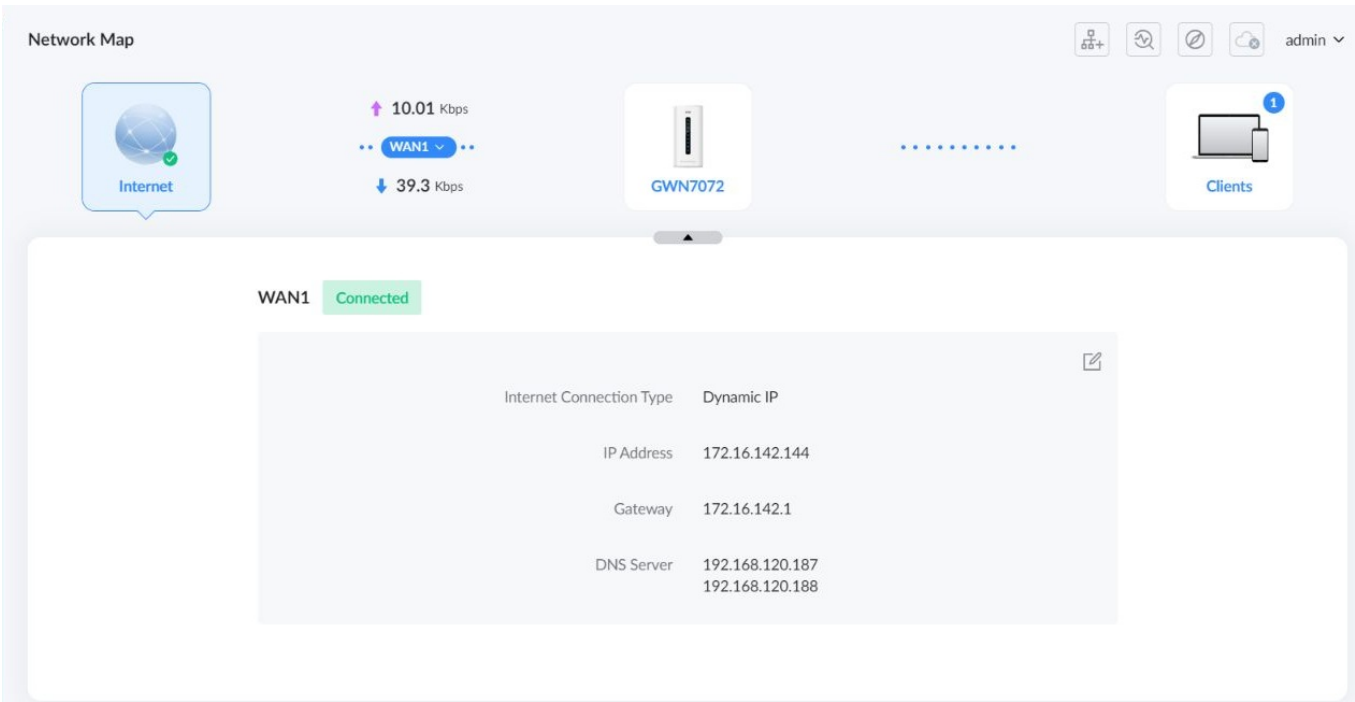
1. **Expand View:**
  - By default, the **Network Map** displays a **visual representation** of the router's connections, including **Internet, primary router, and clients**.
  - The detailed **WAN connection information** is visible below.
2. **Collapse View:**
  - Clicking the **collapse arrow (?)** at the top of the **WAN details panel** will hide the **connection details**, keeping only the high-level network visualization.
3. **Expand Again:**
  - Clicking the **expand arrow (?)** will restore the full view of **WAN details**, including **IP address, connection type, gateway, and DNS information**.

This feature helps users **toggle between a detailed and simplified view**, making network monitoring more **user-friendly and space-efficient**.

### Internet Connection Details

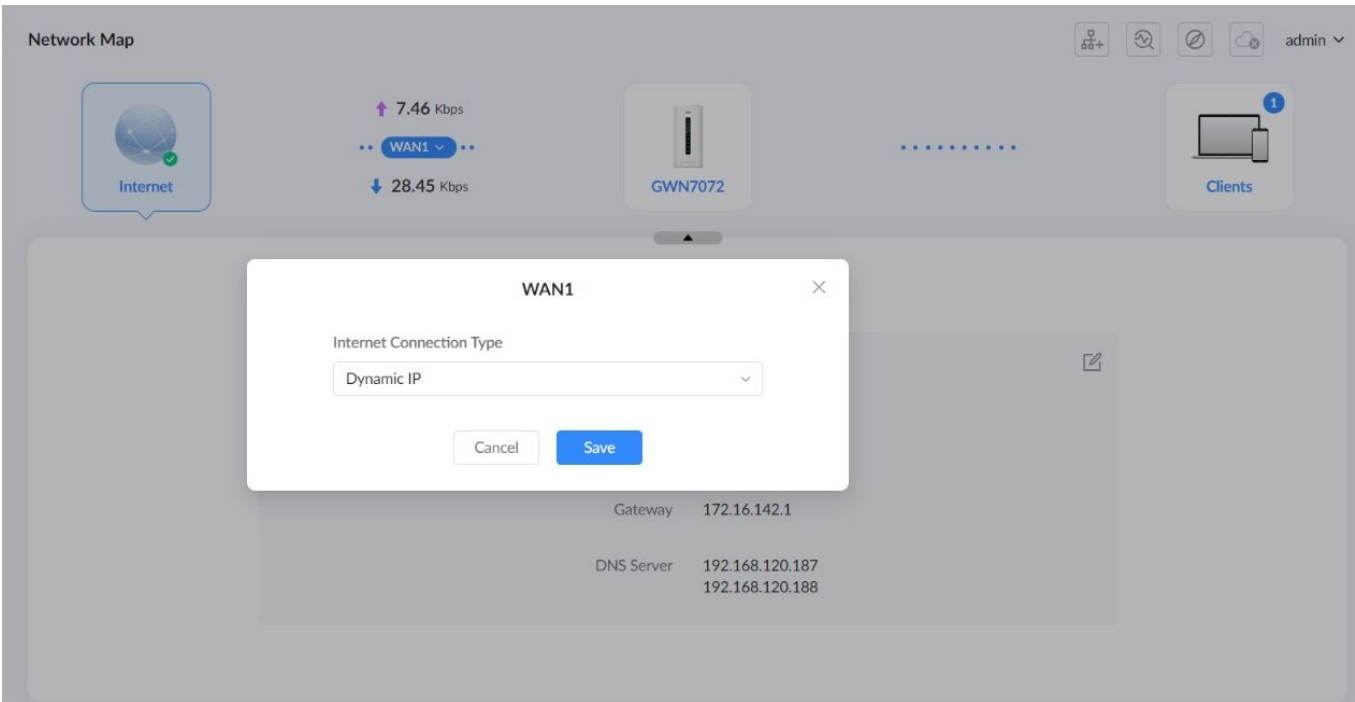
Clicking on the **Internet** icon provides a **detailed view of the WAN connection status**:

- **Internet Connection Type** (e.g., Dynamic IP, Static IP, PPPoE, L2TP, PPTP).
- **IP Address** assigned by the ISP or another Router.
- **Gateway** and **DNS Server** information.



Network Map Internet

To **edit the WAN settings**, click on the **edit icon** next to the Internet details. A pop-up window will allow selecting the connection type and configuring the necessary parameters.



Network Map Internet Edit WAN

### Internet Connection Types:

When configuring the **WAN (Internet) connection type**, users can select from the following options:

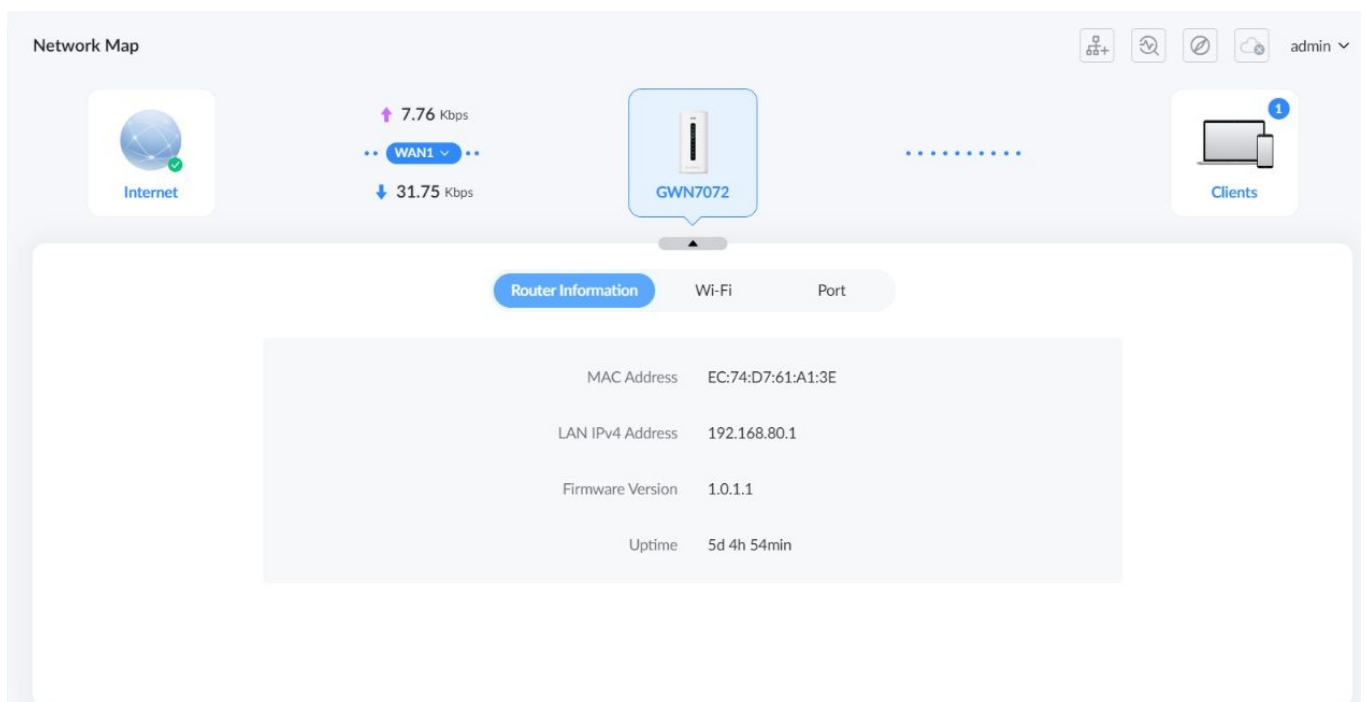
- **Dynamic IP** - The router automatically obtains an IP address from the ISP. This is the most common setting for residential and many business connections.
- **Static IP** - Requires manual entry of an IP address, subnet mask, gateway, and DNS servers. Used for fixed-address internet connections.
- **PPPoE (Point-to-Point Protocol over Ethernet)** - Used for DSL connections where the ISP provides a username and password for authentication.
- **L2TP (Layer 2 Tunneling Protocol)** - A VPN-based internet connection method that requires an L2TP server address, username, and password.
- **PPTP (Point-to-Point Tunneling Protocol)** - An older VPN-based internet connection method, similar to L2TP but generally less secure.

Users should **select the appropriate connection type** based on their ISP's requirements.

## Primary Router Information

Displays essential details about the router, including:

- **MAC Address:** The unique identifier assigned to the router.
- **LAN IPv4 Address:** The internal IP address used for local network communication.
- **Firmware Version:** Indicates the firmware version currently installed.
- **Uptime:** Shows how long the router has been running since the last restart.



*Network Map Router Information*

## Wi-Fi Setting

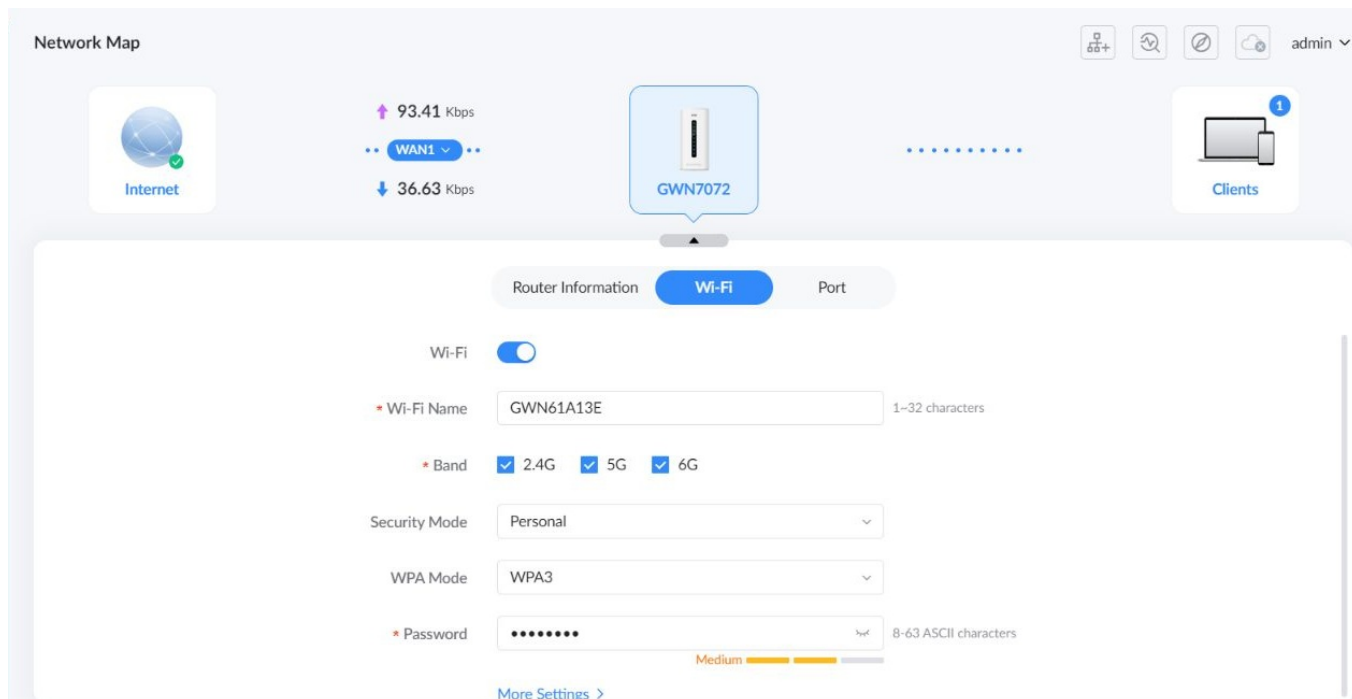
The **Wi-Fi** tab on the **Network Map** page allows users to quickly view and modify the main wireless settings, including enabling/disabling Wi-Fi, SSID details, and security options. After making changes, click **Save** to apply them.

- **Wi-Fi:** Enable or disable the wireless function. When disabled, the device will operate as a wired router only.
- **Wi-Fi Name:** Set or modify the SSID (1-32 characters).
- **Band:** Select one or more supported bands: **2.4G**, **5G**, and **6G**.
- **Security Mode:** Choose **Open** (no password) or **Personal** (secured network).
- **WPA Mode:** Available when **Security Mode** is set to **Personal**. Select the WPA option (for example,

**WPA/WPA2, WPA2, WPA2/WPA3, or WPA3).**

- **Password:** Available when **Security Mode** is set to **Personal**. Enter the Wi-Fi password (8-63 ASCII characters or 8-64 hex characters).

Click **More Settings** to open [Wi-Fi Settings -> Wi-Fi](#), where you can configure additional SSIDs and advanced wireless parameters.



Network Map Wi Fi

## Port Status

The **Port** tab in the **Network Map** shows the real-time physical connection status of each port on the GWN7072. It helps identify which ports are active, which are linked to the Internet, and which are inactive.

## Accessing the Port Status

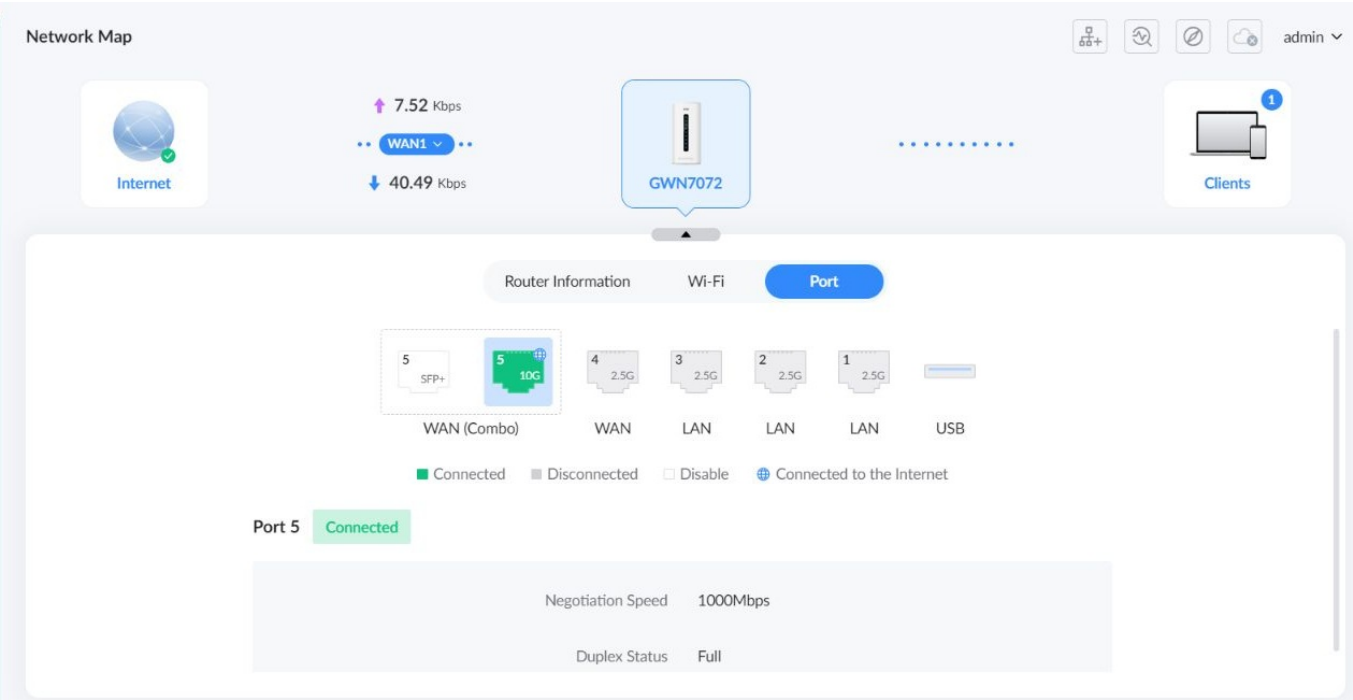
1. Click the router icon (**GWN7072**) in the **Network Map**.
2. Select the **Port** tab to view detailed connection information.

## Port Status Indicators

| Status                    | Meaning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connected                 | The port has a valid physical connection to another device, and the link is up. This status is used for all ports (WAN and LAN), including the 10 GbE Combo WAN port when its selected interface is active. Note: The combo port includes two interfaces: RJ45 Ethernet and SFP+, but only one can be used at a time. When one interface is active, the other automatically becomes Disabled. To change which interface is active, go to Advanced -> Internet Settings -> Internet Settings, select the desired interface (RJ-45 or SFP), and save the configuration. |
| Disconnected              | No cable or module is detected, or the connected device is powered off.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Connected to the Internet | The port is acting as the WAN interface and currently has Internet access.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Disabled                  | Applies only to the 10 GbE Combo WAN port. The combo port includes two interfaces: RJ45 Ethernet and SFP+, but only one can be used at a time. When one interface is active, the other automatically becomes Disabled. To change which interface is active, go to Advanced -> Internet Settings -> Internet Settings, select the desired interface (RJ-45 or SFP), and save the configuration.                                                                                                                                                                        |

# Additional Port Information

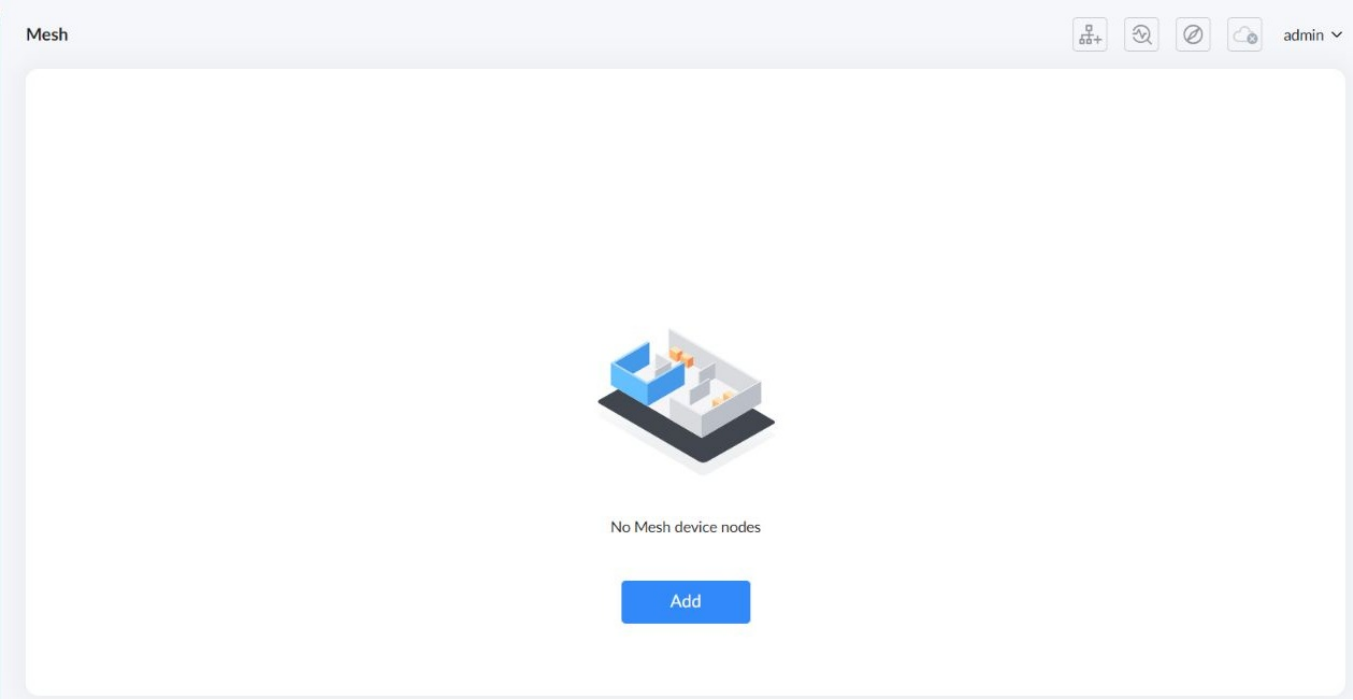
- **Negotiation Speed** - Displays the current link speed (e.g., 1000 Mbps).
- **Duplex Status** - Indicates whether the connection is Full or Half Duplex.



Network Map Primary Router Port

# Mesh Nodes

- Displays any **Mesh devices** connected to the network.
- Shows **device type, MAC address, and connection status**.

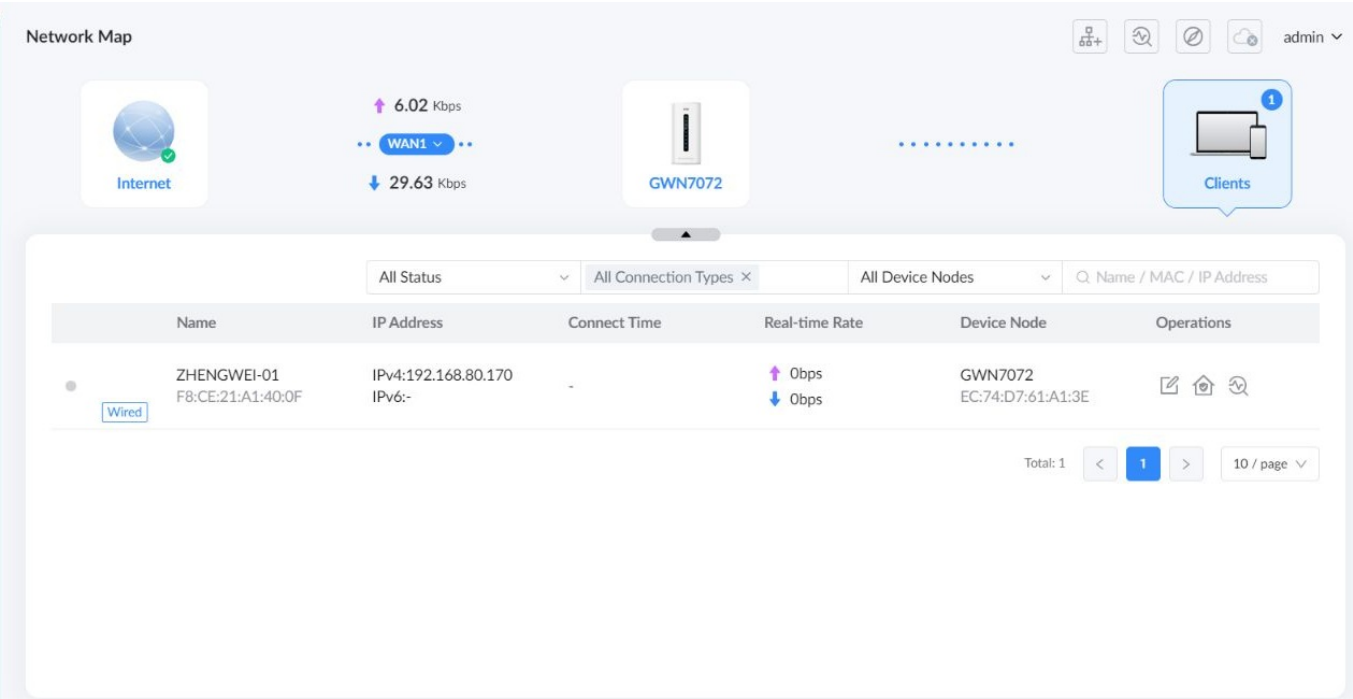


Network Map Mesh Nodes

# Client Devices

- Lists all devices connected to the router.

- Displays **connection type** (2.4 GHz, 5 GHz, 6 GHz, MLO, or wired).
- Shows **IP addresses, real-time bandwidth usage, and connection time**.
- Allows **basic device management**, such as renaming, blocking, or prioritizing clients.



Network Map Clients

| <div> <div>All Status</div> <div>All Connection Types</div> <div>All Associated Devices</div> <div>Q Name / MAC / IP Address</div> </div> |                               |              |                                     |                   |                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------------|-------------------------------------|-------------------|--------------------------------------------------------------|--|
| Name                                                                                                                                      | IP Address                    | Connect Time | Real-time Rate                      | Associated Device | Operations                                                   |  |
| <div> <div></div> <div>2.4G</div> </div> <div> <div>gigasetn101</div> <div>Android 10.0.0</div> </div>                                    | IPv4:192.168.80.235<br>IPv6:- | 1h 47min     | <div>↑ 0bps</div> <div>↓ 0bps</div> | GWN7062ET_43F0    | <div> <div></div> <div></div> <div></div> <div></div> </div> |  |
| <div> <div></div> <div>2.4G</div> </div> <div> <div>Android 10.0.0</div> <div>2020-09-01 17:12:00</div> </div>                            | IPv4:192.168.80.174<br>IPv6:- | -            | <div>↑ 0bps</div> <div>↓ 0bps</div> | -                 | <div> <div></div> <div></div> <div></div> <div></div> </div> |  |
| <div> <div></div> <div>5G</div> </div> <div> <div>Android 10.0.0</div> <div>2020-07-27 16:00:00</div> </div>                              | IPv4:192.168.80.212<br>IPv6:- | -            | <div>↑ 0bps</div> <div>↓ 0bps</div> | GWN7072           | <div> <div></div> <div></div> <div></div> <div></div> </div> |  |
| <div> <div></div> <div>5G</div> </div> <div> <div>gigasetn101</div> <div>Android 10.0.0</div> </div>                                      | IPv4:192.168.80.48<br>IPv6:-  | -            | <div>↑ 0bps</div> <div>↓ 0bps</div> | GWN7072           | <div> <div></div> <div></div> <div></div> <div></div> </div> |  |
| <div> <div></div> <div>5G</div> </div> <div> <div>Android 10.0.0</div> <div>2020-09-01 17:12:00</div> </div>                              | IPv4:192.168.80.109<br>IPv6:- | -            | <div>↑ 0bps</div> <div>↓ 0bps</div> | GWN7072           | <div> <div></div> <div></div> <div></div> <div></div> </div> |  |

Network Map Clients Shortcuts

### Managing Connected Devices:

Users can perform various actions directly from the **Operations** column:

- **Edit (Pencil Icon)** - Modify the device name or other settings.
- **Block (Prohibited Icon)** - Restrict network access for the selected device.
- **Parental Control (House Icon)** - Add the device to the **Parental Control list** for content filtering and time-based access restrictions. For more details, refer to [Basic -> HomeCare -> Parental Control](#).
- **Repair (Circular Arrow Icon)** - If the device has connection issues, clicking this icon redirects the user to [Intelligent Detection -> Internet Failure](#) for troubleshooting.

### Traffic Statistics

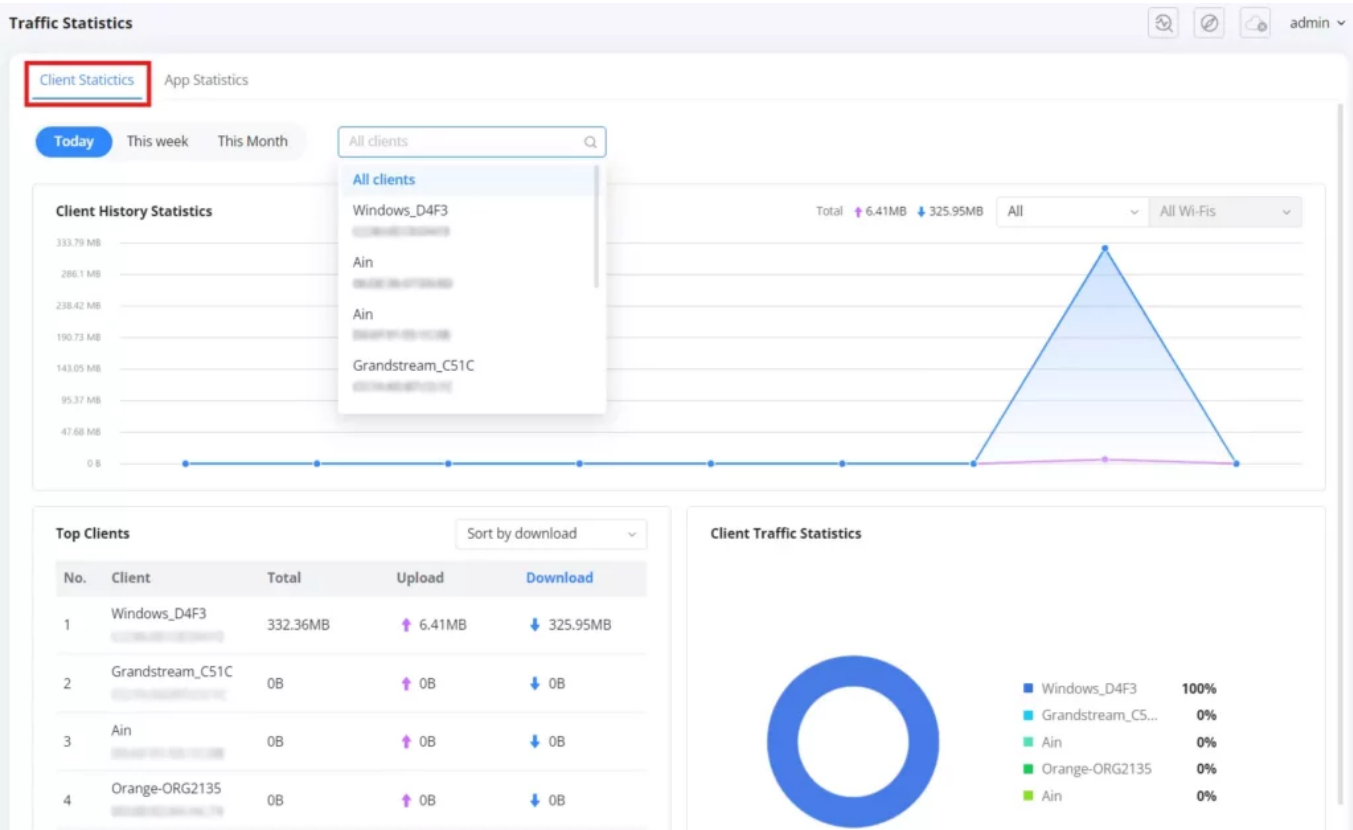
The **Traffic Statistics** page provides real-time insights into network usage, helping users monitor data

consumption and optimize bandwidth. This section is divided into two key tabs: **Client Statistics** and **App Statistics**, each offering detailed data on network activity.

**Client Statistics**

This tab displays **network usage per device**, allowing users to track bandwidth consumption for individual clients.

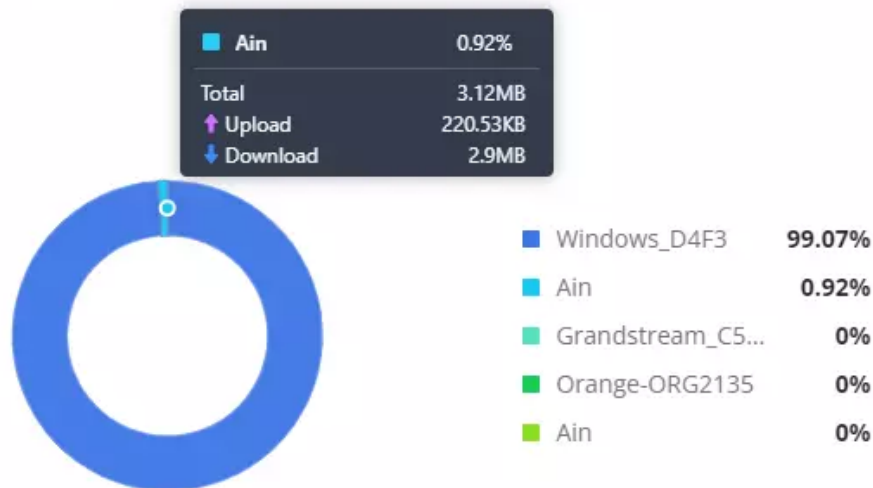
- **Client History Statistics:** A graphical representation of data usage over time.
- **Top Clients List:** Displays the highest bandwidth-consuming devices, showing:
  - **Device Name & MAC Address**
  - **Total Data Consumption**
  - **Upload & Download Usage**
- **Filtering & Sorting Options:** Users can filter by:
  - Specific clients
  - Time periods (**Today, This Week, This Month**)
  - Sorting methods (**Upload or Download usage**)



Traffic Statistics Client Statistics Part 1

The **Traffic Statistics** page includes interactive visual representations of network usage. Users can **hover over graphs** to view additional details about specific clients or applications.

## Client Traffic Statistics

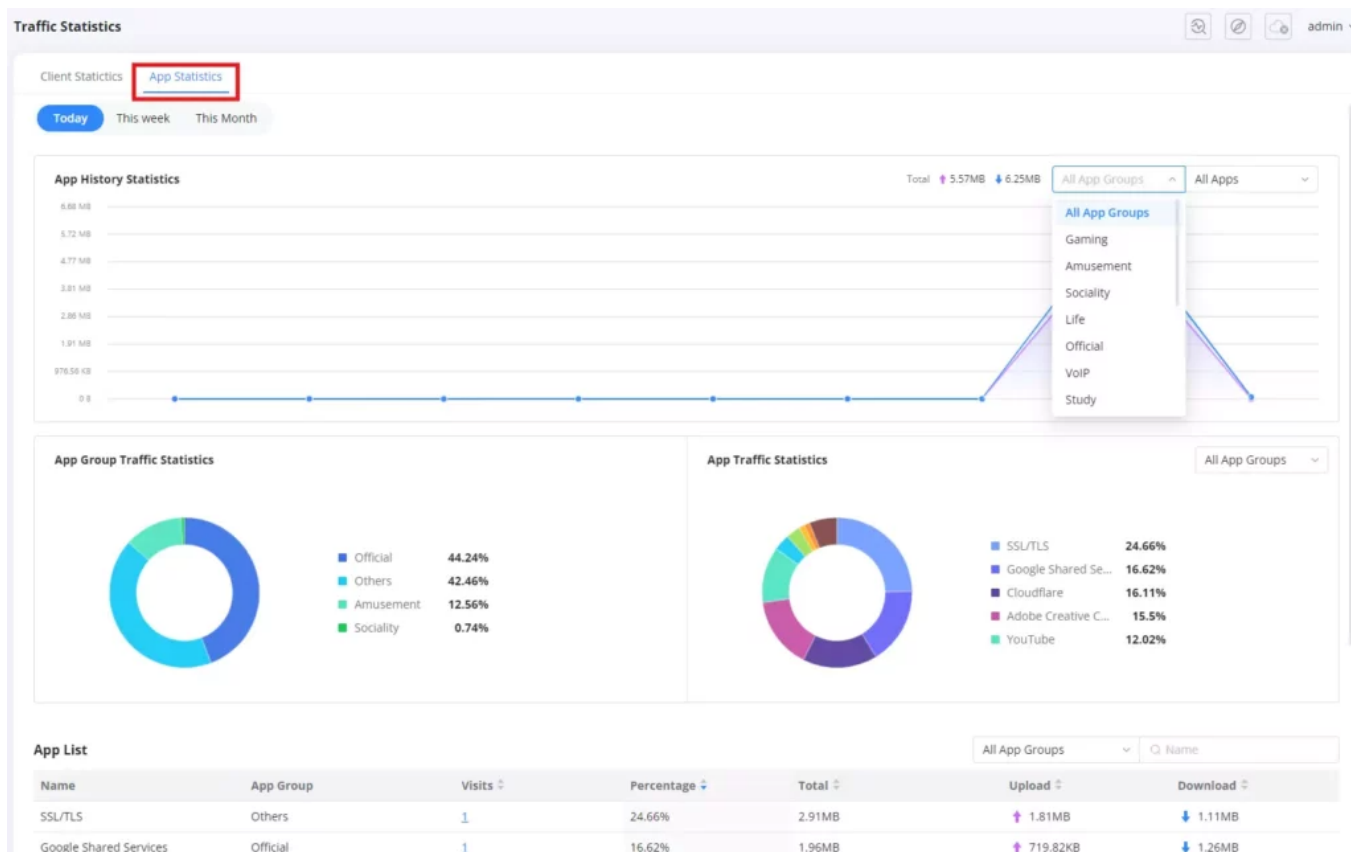


Traffic Statistics Client Statistics Part 2

## App Statistics

This tab provides a breakdown of network usage based on application types, enabling better traffic management and prioritization.

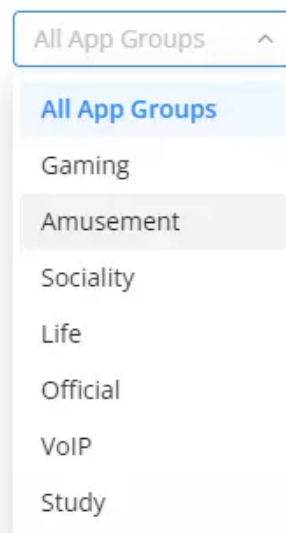
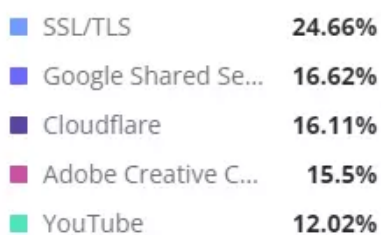
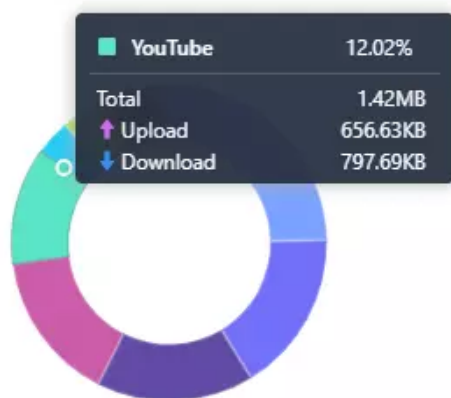
- **App History Statistics:** Tracks total bandwidth usage over time.
- **App Group Traffic Statistics:** Categorizes network traffic into groups such as:
  - Gaming, VoIP, Social Media, Streaming, Official Work, and Others
- **App List:** Displays detailed statistics for each application, including:
  - Total Usage, Upload, Download, and Visit Count
  - Percentage of Total Network Traffic
- **Filtering Options:** Users can filter by:
  - Specific application types
  - Time periods (Today, This Week, This Month)



Traffic Statistics App Statistics part 1

It's also possible on this page to hover over graphs for more details or more info.

### App Traffic Statistics



Traffic Statistics App Statistics part 2

## QoS (Quality of Service)

**Quality of Service (QoS)** is a network feature that prioritizes specific types of internet traffic to ensure optimal performance for critical applications. By enabling QoS, users can allocate bandwidth more efficiently, reducing latency for gaming, streaming, video calls, and other high-priority tasks.

### Enabling QoS

To enable QoS on the router, navigate to:

**Basic -> QoS**

- Toggle the **QoS function** switch to **Enable**.
- Ensure that bandwidth settings are properly configured for QoS to function effectively.

**QoS**

**QoS function**

Enable ☒

**Bandwidth Settings**

ⓘ If the bandwidth is not set properly, QoS will not work normally

| WAN  | Maximum Upload Bandwidth |      | Maximum Download Bandwidth |      |
|------|--------------------------|------|----------------------------|------|
| WAN1 | 200                      | Mbps | 200                        | Mbps |
| WAN2 | 1000                     | Mbps | 1000                       | Mbps |

**Priority Surfing Mode**

Auto Mode ☒ Game First Video First Web First

Cancel Save

QoS

## Bandwidth Settings

Users can manually define the **maximum upload and download bandwidth** for each **WAN port** to optimize traffic distribution.

- **WAN Selection:** Displays multiple WAN interfaces (e.g., WAN1, WAN2) to apply QoS settings separately.
- **Maximum Upload Bandwidth:** Define the highest upload speed per WAN connection (Kbps or Mbps).
- **Maximum Download Bandwidth:** Set the maximum download speed for each WAN interface.

Proper configuration of these settings ensures that **QoS operates efficiently** without network congestion.

## Priority Surfing Mode

Users can select **traffic prioritization modes** based on their preferred usage:

- **Auto Mode:** The router dynamically manages bandwidth based on network activity.
- **Game First:** Prioritizes gaming traffic to reduce latency and lag.
- **Video First:** Ensures seamless streaming by prioritizing video traffic.
- **Web First:** Allocates bandwidth for smooth web browsing and productivity tasks.

**Note:** After configuring QoS settings, click **Save** to apply the changes.

This feature is highly beneficial for **gamers, remote workers, streamers, and households with multiple users**, ensuring a **balanced and optimized network experience** across different applications.

## HomeCare

### Parental Control

The **Parental Control** feature under **Basic -> HomeCare** allows administrators to manage and control

internet access for specific devices connected to the network. This feature is particularly useful for parents, schools, or workplaces to enforce internet usage policies.

**Key Features of Parental Control:**

- **Time-Based Restrictions:** Set internet access schedules to restrict online usage during specific hours, such as school nights or weekends.
- **App & URL Filtering:** Block or allow certain applications or websites to ensure safe browsing.
- **Device-Specific Rules:** Apply different rules for different devices, either by selecting from connected clients or adding devices manually.
- **General Settings:** Option to block internet access for unmanaged devices that are not subject to parental control rules.

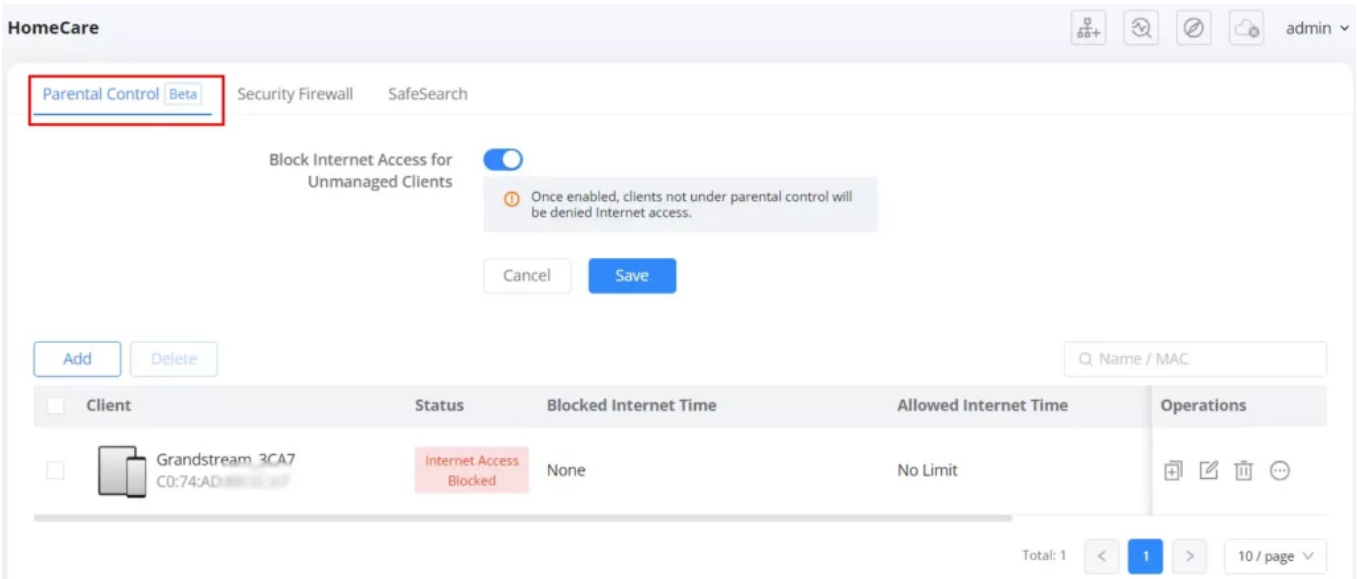
To configure **Parental Control**, navigate to **Basic -> HomeCare -> Parental Control** and use the available options to set restrictions, add devices, or customize browsing rules.

**Parental Control**

The **Parental Control** section allows administrators to define how unmanaged devices connect to the internet. This feature ensures that any device not assigned parental control rules is restricted from accessing the network, enhancing security and ensuring controlled internet usage.

To enable Parental Control:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. Then toggle on **Block Internet for Unmanaged Devices**.



Parental Control page

When this setting is enabled, all unmanaged devices will be unable to access the internet unless explicitly assigned to parental control rules.

**Adding a Client to Parental Control**

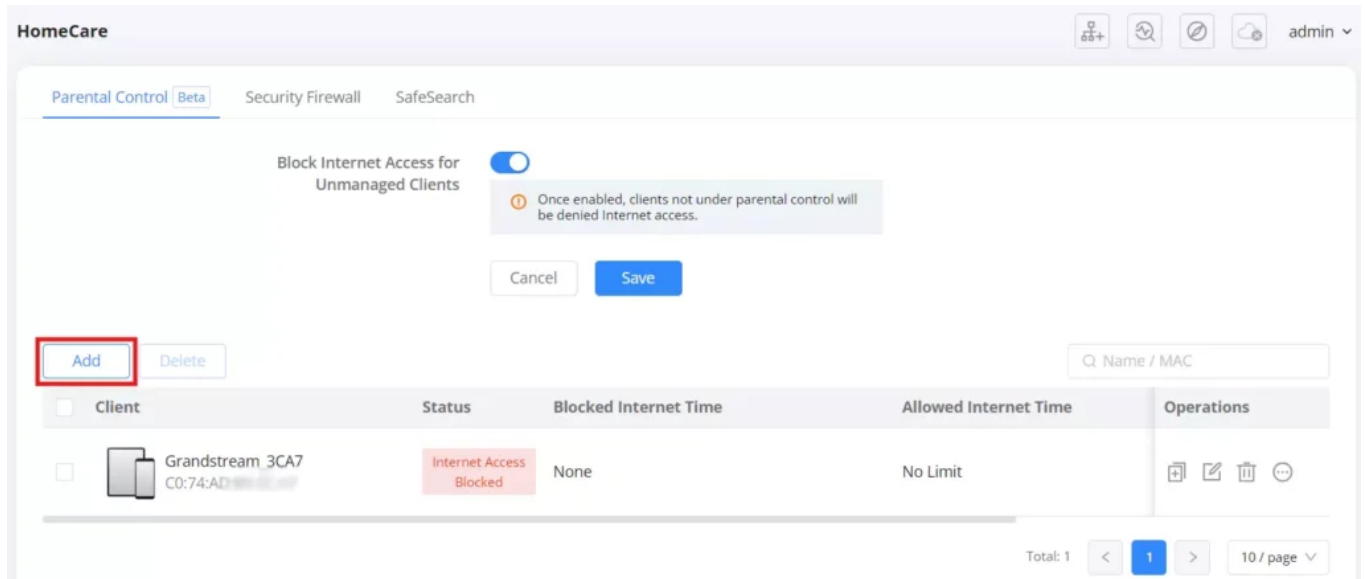
To apply parental control rules to specific devices, users must add them to the **Parental Control** client list. This allows administrators to set time restrictions, content filters, and other network rules for selected devices.

**Navigating to Add a Client:**

To add a device under Parental Control:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. Click on the **Add** button at the top-left of the client list.

Once a client is added, administrators can configure various settings such as online time limits, app restrictions, and URL filtering.



Parental Control add ClientDevice

## Selecting or Manually Adding a Device

After clicking **Add** in the Parental Control section, users have two options to add a device:

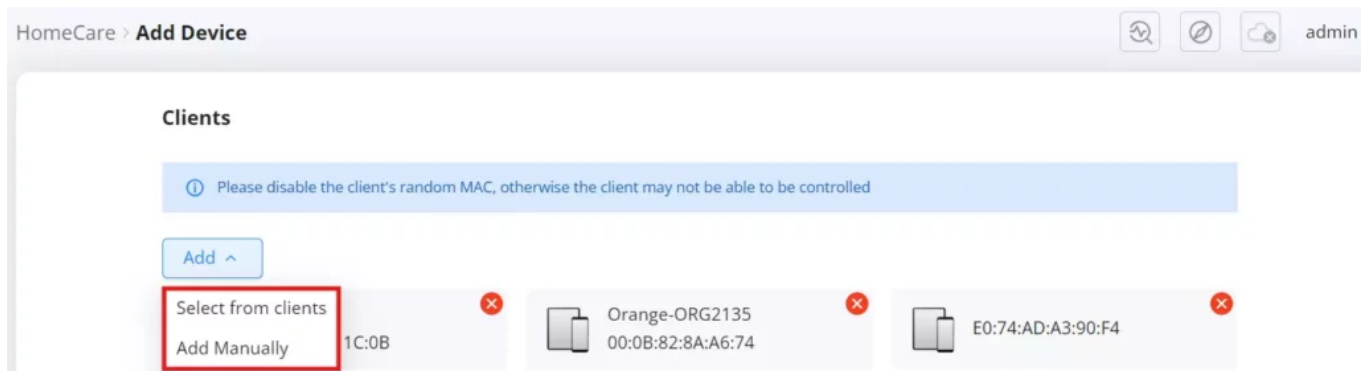
1. **Select from Clients** - Choose a device that is already connected to the router from the available list.
2. **Add Manually** - Enter the MAC address of a device that is not currently connected but needs to be managed under Parental Control.

### Important Note:

- Devices with **randomized MAC addresses** may not be properly controlled. It is recommended to **disable MAC randomization** on the client device to ensure proper enforcement of rules.

### Steps to Add a Device:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. Click **Add**, then choose either:
  - **Select from Clients** to pick a device from the connected list.
  - **Add Manually** to enter the MAC address of an offline device.
3. Once added, the device will appear in the list and can be assigned specific Parental Control rules.



Parental Control add deviceclient from client lists or manually

## Enabling and Configuring Internet Time Limits

The **Internet Time Limit** feature in **Parental Control** allows users to define specific time periods when internet access is blocked for selected devices. This is particularly useful for managing children's online activity by restricting internet usage during school nights or setting time-based limitations.

#### Steps to Enable Internet Time Limits:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. Click **Add** to add a client device if not already listed.
3. Enable **Internet Time Limit** by toggling the switch.
  - Set restricted hours for **school nights (Sunday to Thursday)**.
  - Define blocked times for **weekends (Friday and Saturday)**.
5. Enable **Time Duration of Internet Use** to specify the maximum allowed usage time per day:
  - Assign usage limits for **school days (Monday to Friday)**.
  - Configure usage limits for **weekends (Saturday and Sunday)**.
6. Once configured, click **Save** to apply the settings.

These restrictions will automatically disconnect the device from the internet during the specified times.

HomeCare · Add Device

Router Current Time 2025/03/13 12:29

**Internet Time Limit** ☒

Configures the time period when the Internet is blocked

• School Nights (Sunday to Thursday) 21:00 → 07:00

• Weekends (Friday, Saturday) 23:00 → 07:00

**Time Duration of Internet Use** ☒

Configures the duration of Internet connection

• School Days (Monday to Friday) 2Hours 0Minutes

• Weekends (Saturday, Sunday) 4Hours 0Minutes

*Parental Control Configure the time spent online*

#### Configuring App and URL Filtering

The App and URL Filtering feature under Parental Control allows users to restrict access to certain applications and websites, ensuring a safer browsing environment.

#### Steps to Configure App and URL Filtering:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. Select a device or add a new device.
3. Under the **App Allowlist**, configure application-based restrictions:

- Use the **Block** section to restrict specific apps or app categories, such as gaming or social media.
  - Use the **Allow** section to specify permitted applications.
4. Under the **URL Allowlist**, manage website access:
- Use the **Block** section to restrict access to specific website categories like adult content, phishing, and gambling.
  - Add a **custom URL** to block a specific website using the **URL Blocklist** field.
5. Click **Apply** to save the settings.

These settings ensure that only allowed applications and websites are accessible, preventing exposure to inappropriate content.

The screenshot shows the 'HomeCare - Add Device' interface. It features two main sections: 'APP Allowlist' and 'URL Allowlist'. The 'APP Allowlist' section has a 'Block' tab on the left and an 'Allow' tab on the right. Both tabs have a search bar labeled 'App Name'. The 'Block' tab lists categories: Gaming (286), Official (1) (with a sub-item 'CyberAgent Services'), and Others (2) (with a note 'No data'). The 'Allow' tab lists categories: Amusement (558), Sociality (136), Life (220), Official (692), VoIP (40), Study (43), and Others (553). The 'URL Allowlist' section also has 'Block' and 'Allow' tabs. The 'Block' tab lists categories: Adult, Mixed adult, Lingerie, Sexual education, Aggressive, Ddos, Hacking, Phishing, Drogue, and Gambling. The 'Allow' tab lists categories: Bitcoin, Remote control, Astrology, Sect, and Warez. At the bottom, there is a 'URL Blocklist' field with a search bar containing 'www.example.com' and an 'Add' button. A red box highlights the 'APP Allowlist' and 'URL Allowlist' labels. A red box highlights the 'URL Blocklist' label and the search bar. A red box highlights the 'Add' button.

Parental Control AppURL allow or block

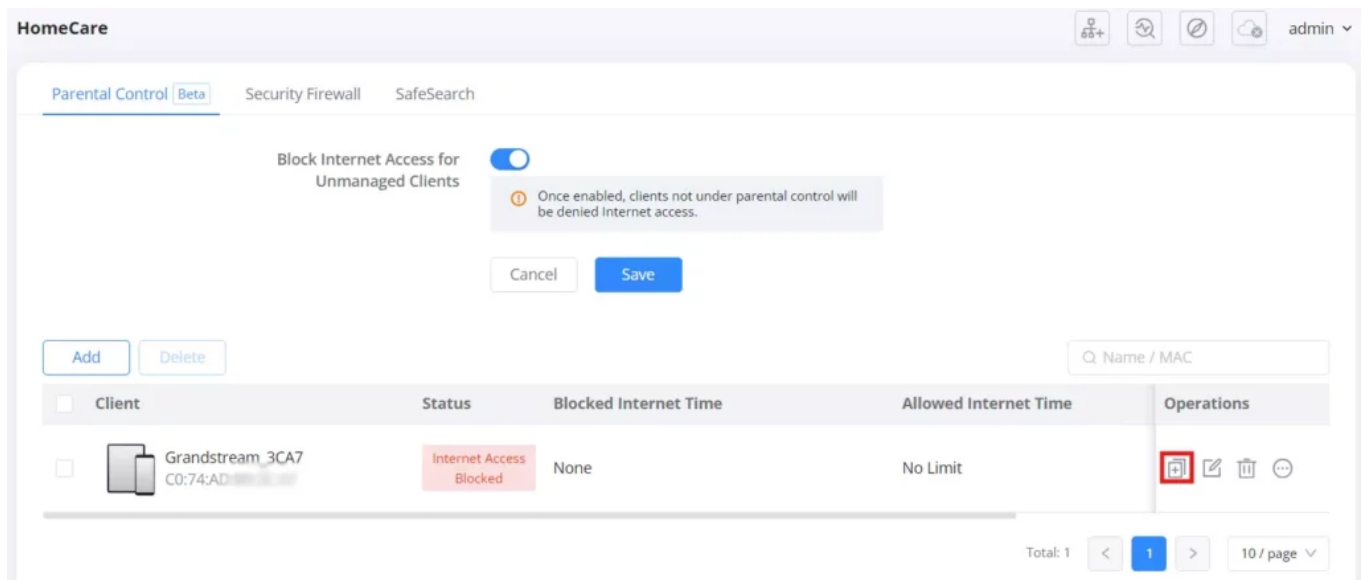
## Applying Parental Control Settings to a New Device

The **Parental Control** feature allows users to quickly apply an existing device's settings to a new device, simplifying network management.

### Steps to Apply Settings to a New Device:

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. In the list of configured clients, locate the device with the desired settings.
3. Click the "+" icon under the **Operations** column.
4. Select the new client to apply the existing settings.
5. Confirm the selection, and the new device will inherit the parental control rules of the original client.

This feature ensures consistency in parental control configurations across multiple devices, streamlining the setup process.



Parental Control Apply to other devices

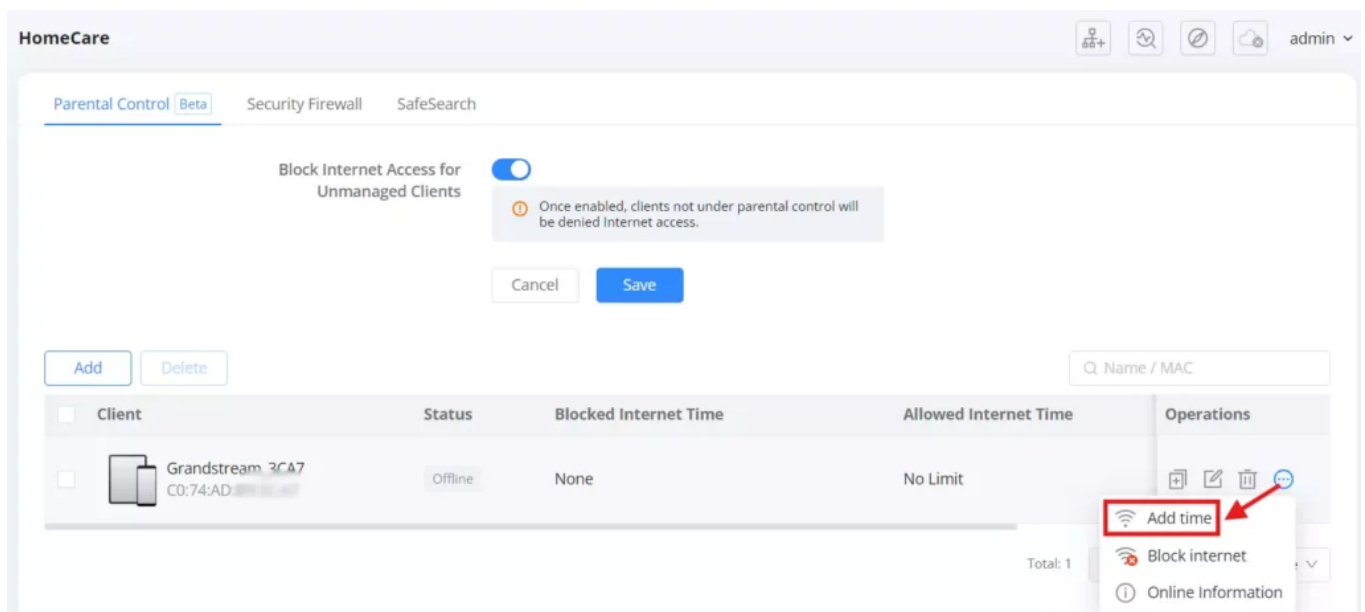
## Parental Control - Block Internet and Add Time Options

The **Parental Control** page in **HomeCare** features enhanced control tools for managing internet access per device. Each connected device appears as a row with control icons represented by three dots ---.

Once you click the dots for any listed client, you can choose between:

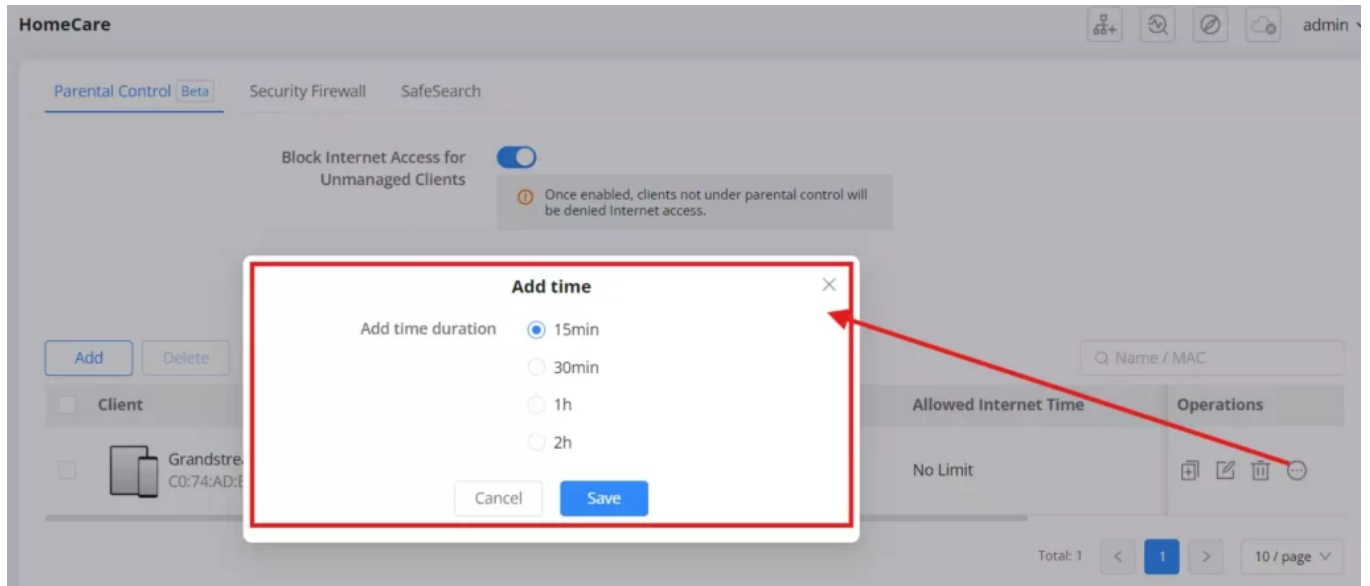
### 1. Add Time

Clicking **Add Time** opens a pop-up that lets you temporarily allow a device to connect to the internet during a defined time slot. This is ideal for managing screen time or temporary access.



Parental Control Add time

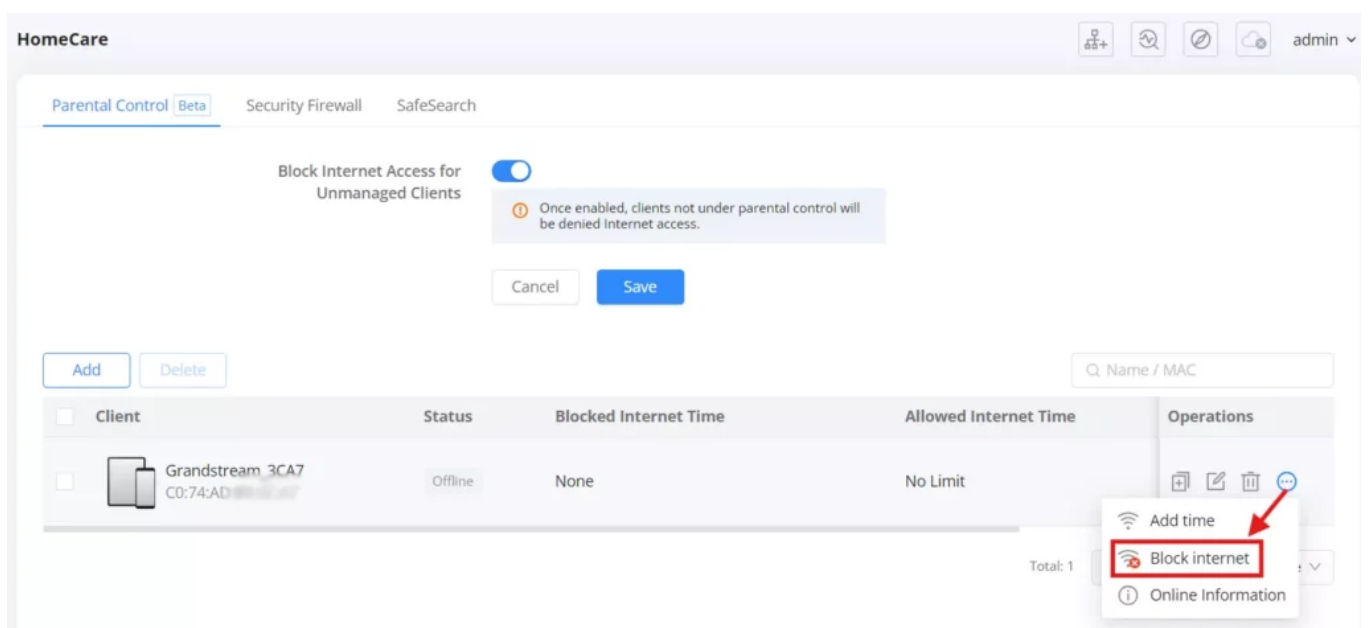
Then the user can select a specific internet access duration (15min, 30min, 1h, 2h) from the "Add time" dialog.



Parental Control Add time

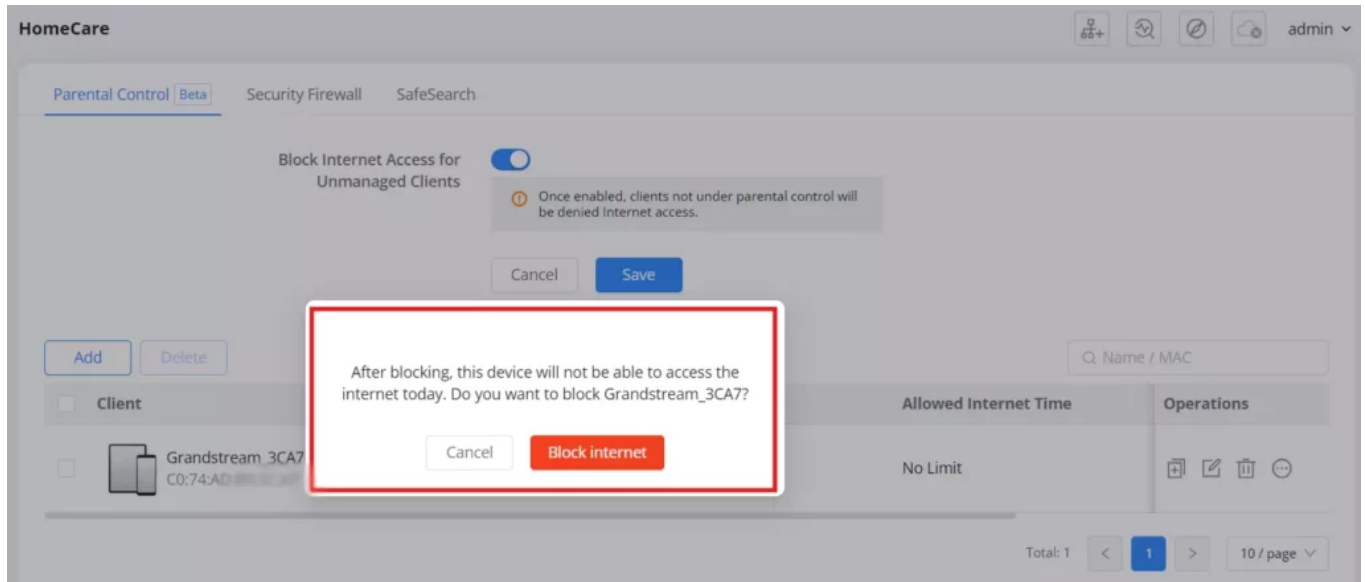
## 2. Block Internet

Clicking **Block Internet** from the client's three-dot menu allows you to immediately deny that device access to the internet for the rest of the day.



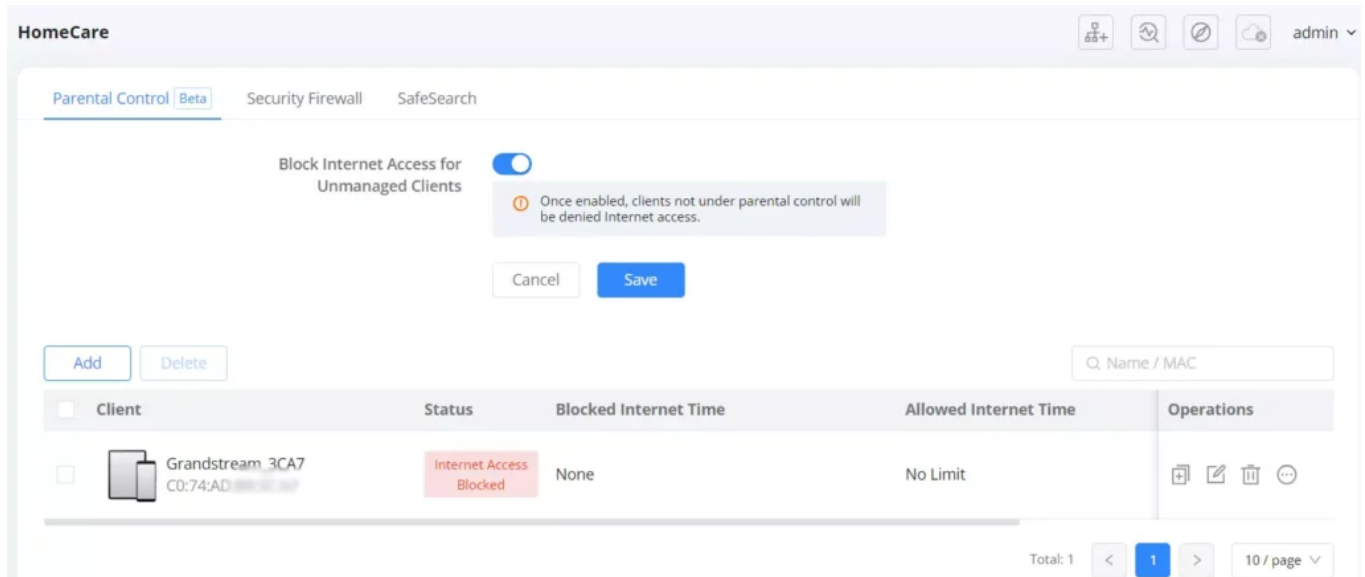
Parental Control Block Internet

Once selected, a confirmation pop-up appears to ensure the admin intends to block internet access for the selected client.



*Parental Control Block Internet*

After confirmation, the client's row is visually updated with a red badge showing **Internet Access Blocked** under the "Status" column.



*Parental Control Internet Access Blocked*

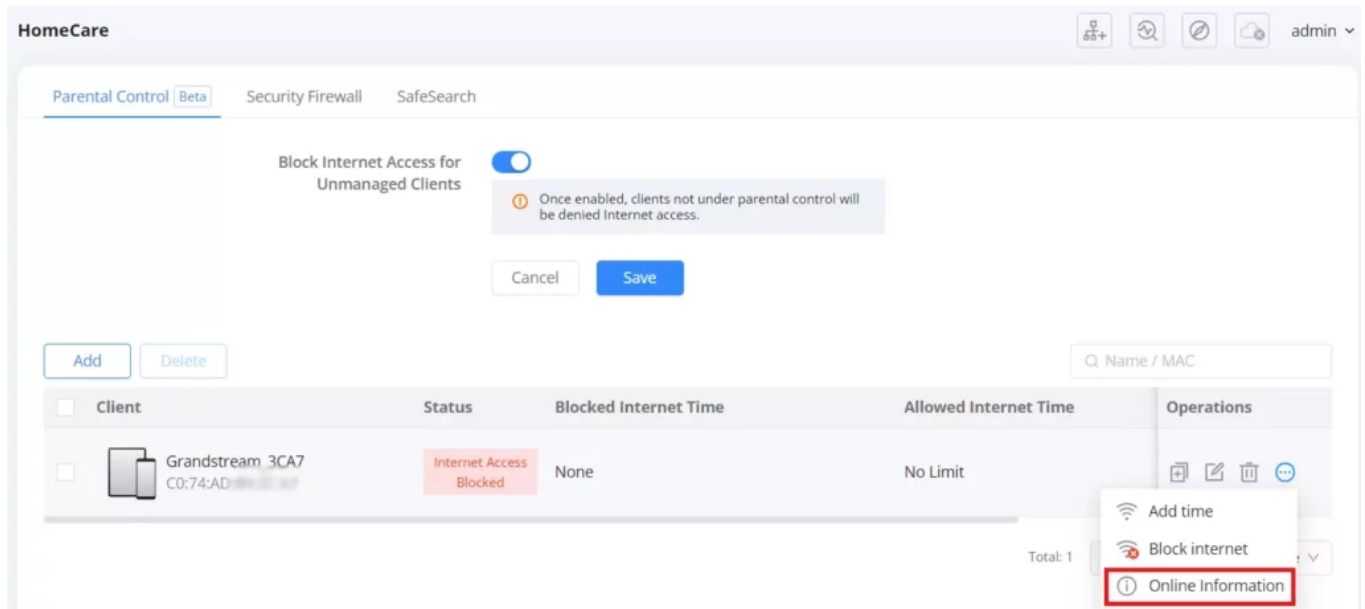
### 3. Online Information

The **Online Information** page under Parental Control provides detailed usage statistics for each managed client. Administrators can review internet time, data usage, and application traffic, and optionally block specific apps directly from this page.

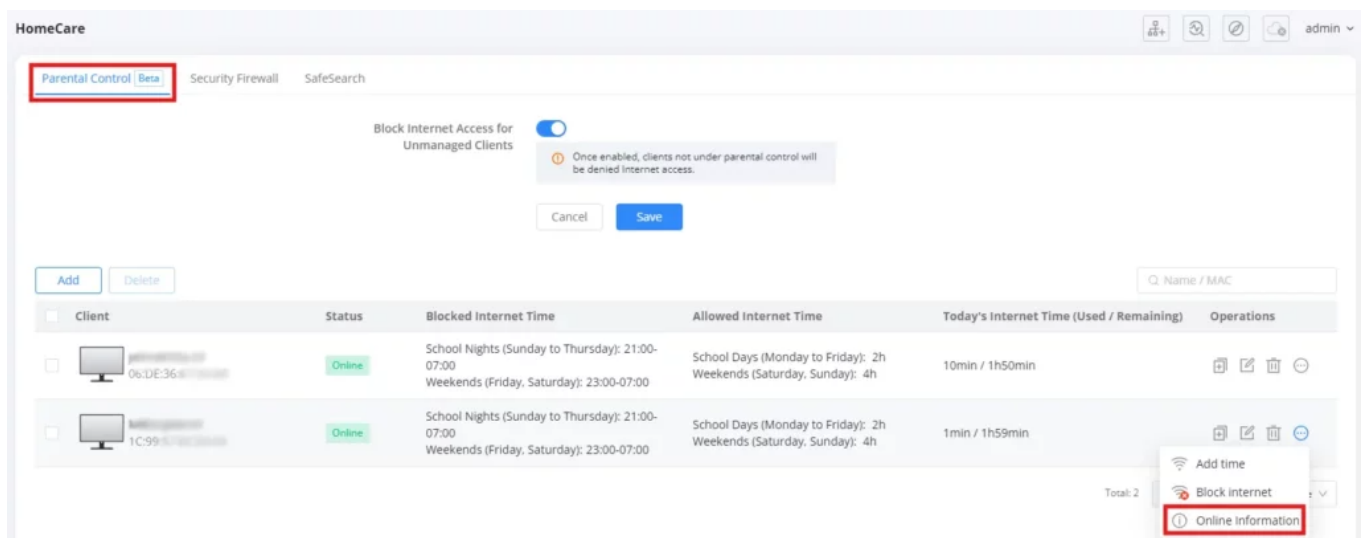
#### Accessing Online Information

1. Navigate to **Basic -> HomeCare -> Parental Control**.
2. In the client list, locate the device you want to inspect.
3. Click the **three-dot (---) menu** under the **Operations** column.
4. Select **Online Information**.

The Online Information page can be opened whether the client's status is **Online** or **Internet Access Blocked**.



Parental Control Internet Access Blocked



Parental Control Client Status Online

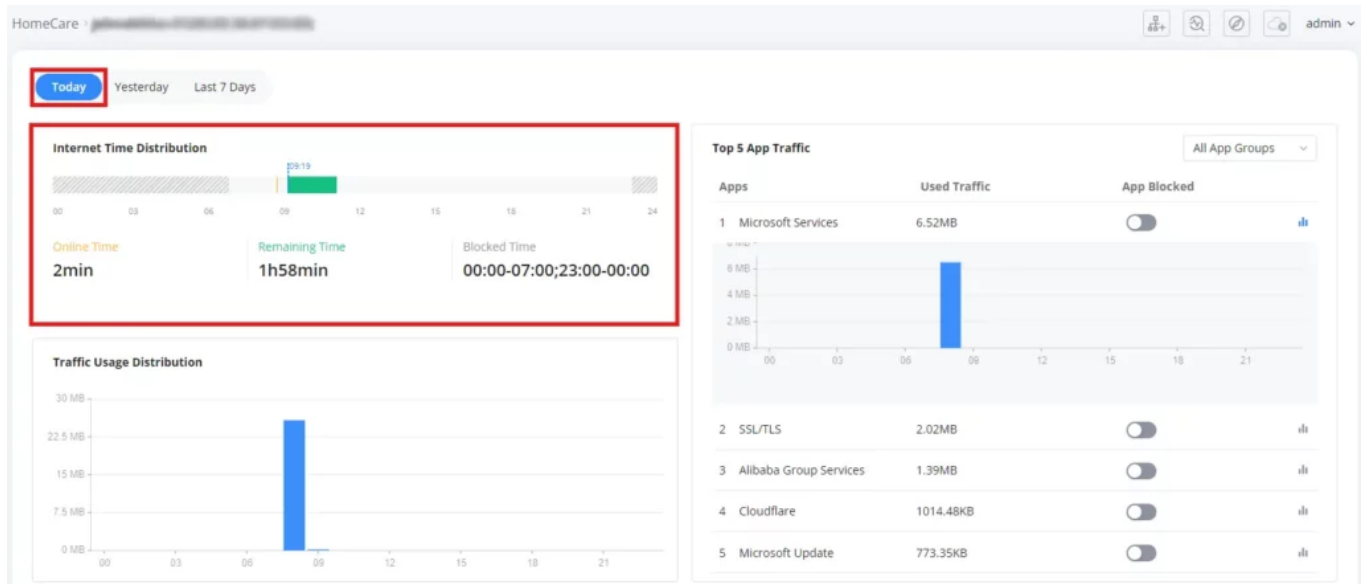
When opened, the page displays a breadcrumb such as:

**HomeCare > [Client Name] ([MAC Address])** and provides three time-range tabs:

- Today
- Yesterday
- Last 7 Days

### Today / Yesterday - Internet Time & Usage Overview

On the **Today** and **Yesterday** tabs, the layout is identical. The page shows how long the client has been online, how much time is remaining (based on Parental Control limits), and when internet access is blocked.



Client Online Information Today

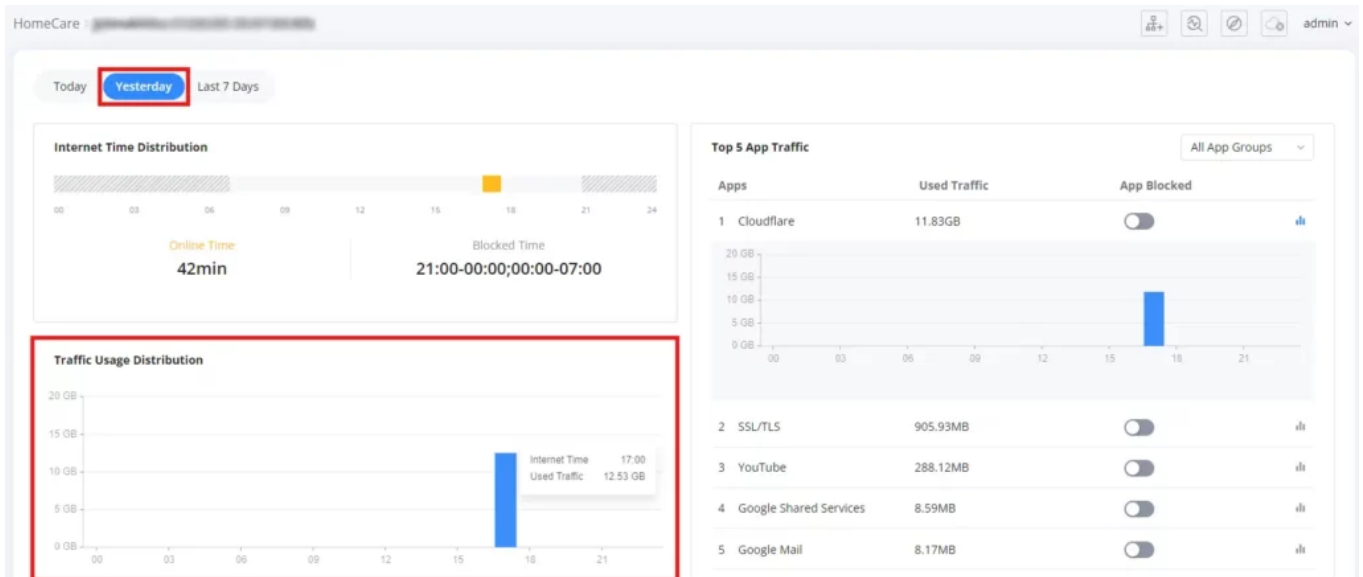
## Internet Time Distribution

- Displays a 24-hour bar showing:
  - **Online Time**: total time the client has been connected during the selected day.
  - **Remaining Time**: remaining allowed time for that day, if a daily limit is configured.
  - **Blocked Time**: periods where internet access is blocked by the configured schedule (for example, school nights or bedtime hours).

This helps visualize when the device was online, how much time is still available, and when access is restricted.

## Traffic Usage Distribution

- Shows a chart of **data usage over the day** for the selected client.
- Each bar represents the amount of traffic used during a specific time period.
- Hovering over a bar displays a tooltip with additional details such as:
  - **Used Traffic**
  - **Internet Time** during that period.



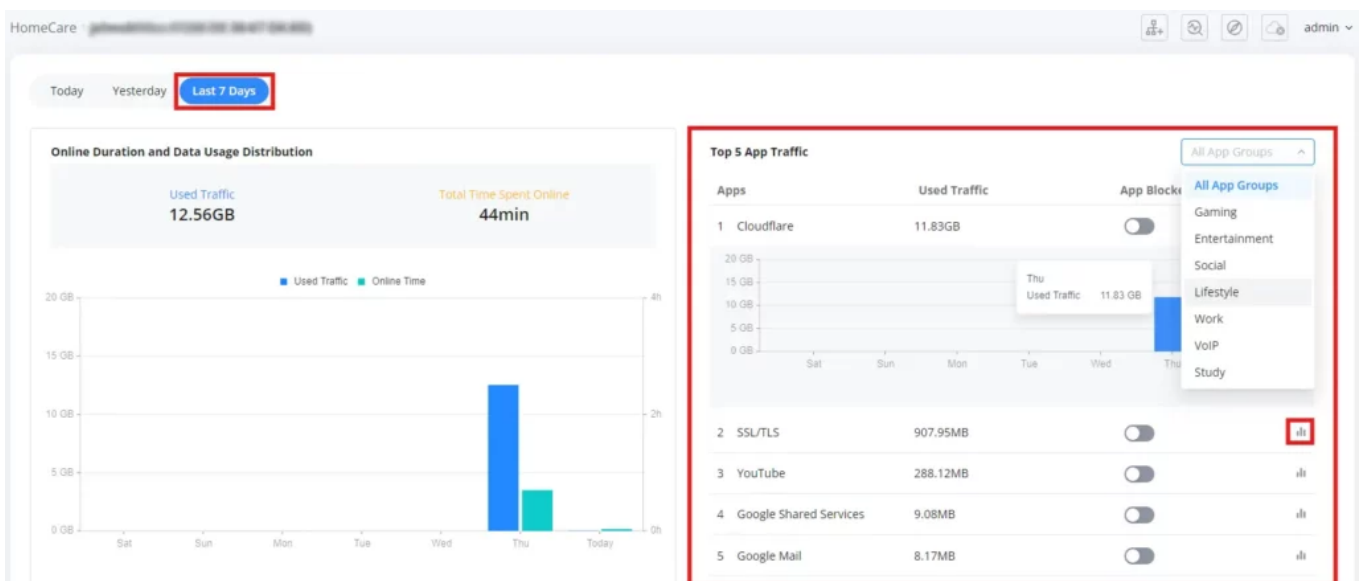
Client Online Information Yesterday

## Top 5 App Traffic

- Lists the **top five applications or services** used by the client for the selected day.
- For each app, the following information is shown:
  - **App name**
  - **Used Traffic**
  - **App Blocked** toggle
- The **App Blocked** switch can be used to immediately block or allow that application for the selected client.
- An **All App Groups** drop-down allows filtering by categories such as **Gaming, Entertainment, Social, Lifestyle, Work, VoIP, and Study**, so administrators can quickly focus on specific types of applications.

## Last 7 Days - Aggregated Usage

The **Last 7 Days** tab shows a summary of the client's activity over the previous seven days.



Last 7 Days Aggregated Usage

## Online Duration and Data Usage Distribution

- Displays the total usage for the selected client across the last seven days, including:

- **Used Traffic** (cumulative data usage for the period)
- **Total Time Spent Online** (total online duration over the last 7 days)
- A bar chart below shows daily values, typically indicating:

- **Used Traffic** per day
- **Online Time** per day

This view helps administrators quickly identify days with unusually high data consumption or long online periods.

### Top 5 App Traffic (Last 7 Days)

- Shows the top applications used by the client during the last seven days, with:
  - **App name**
  - **Used Traffic** over the 7-day period
  - **App Blocked** toggle
- The **All App Groups** drop-down can again be used to filter applications by category (Gaming, Entertainment, Social, etc.).
- Clicking the **three-bar (details) icon** next to an application expands additional information about that app's usage pattern within the selected time range.
- The **App Blocked** switch allows administrators to block or unblock an application directly from this list, applying the change to the selected client.

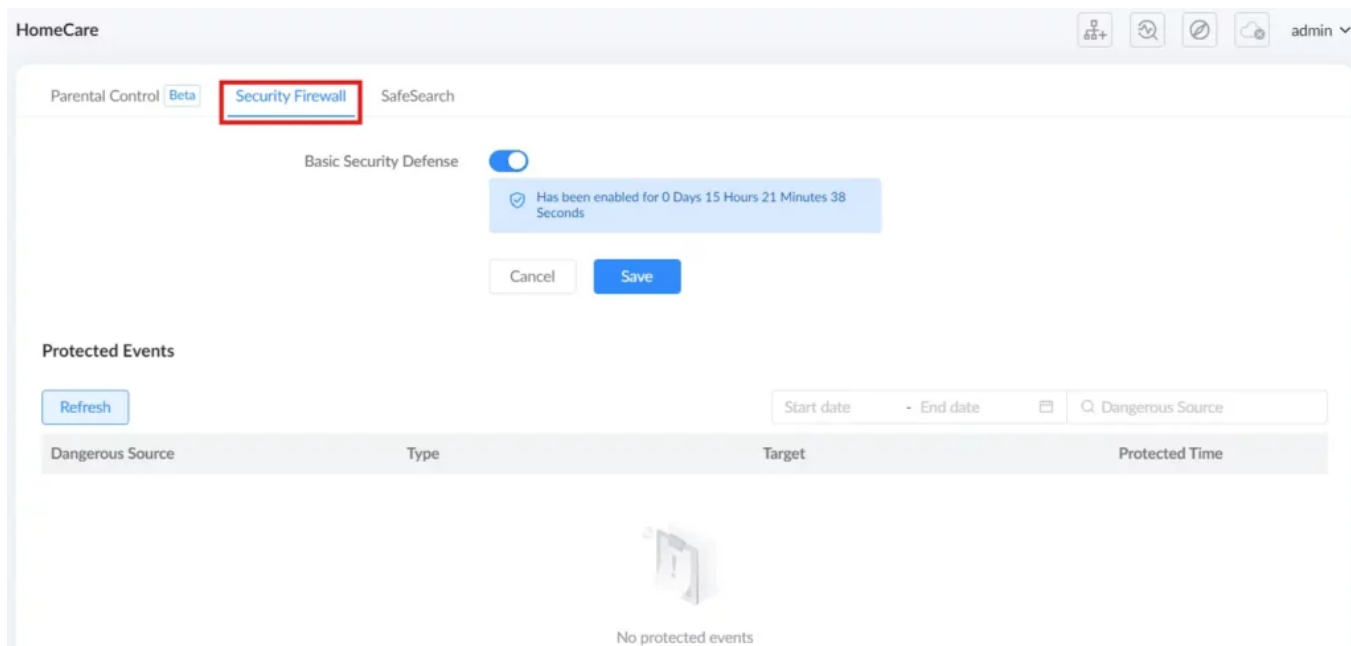
This feature requires devices to have a static MAC address to function properly. If your device is using a random MAC address, certain functions may not work as expected. To ensure compatibility, follow the steps in [Disabling Client Random MAC Address](#) to disable the random MAC feature on your device.

## Security Firewall

The Security Firewall feature under HomeCare provides basic network security by detecting and blocking potential threats, helping protect connected devices from malicious activity.

To enable Security Firewall, navigate to: **Basic -> HomeCare -> Security Firewall**

Enable Basic Security Defense, then click Save to apply the settings. Once enabled, the page displays an activation-time message (for example, "Has been enabled for X Days...") indicating how long Basic Security Defense has been running.



HomeCare Security Firewall

## Protected Events

This section logs and displays detected security threats, such as:

- **Dangerous Sources:** Identifies malicious IP addresses or domains.
- **Threat Type:** Categorizes security risks based on network activity.
- **Target Device:** Specifies which device was affected by the blocked threat.
- **Protected Time:** Logs the date and time of each detected event.

**Note:** Users can click **Refresh** to update the event list and monitor real-time security threats.

This feature enhances **network protection** by proactively identifying and blocking potential cyber threats, ensuring a **safer browsing and internet experience** for all connected devices.

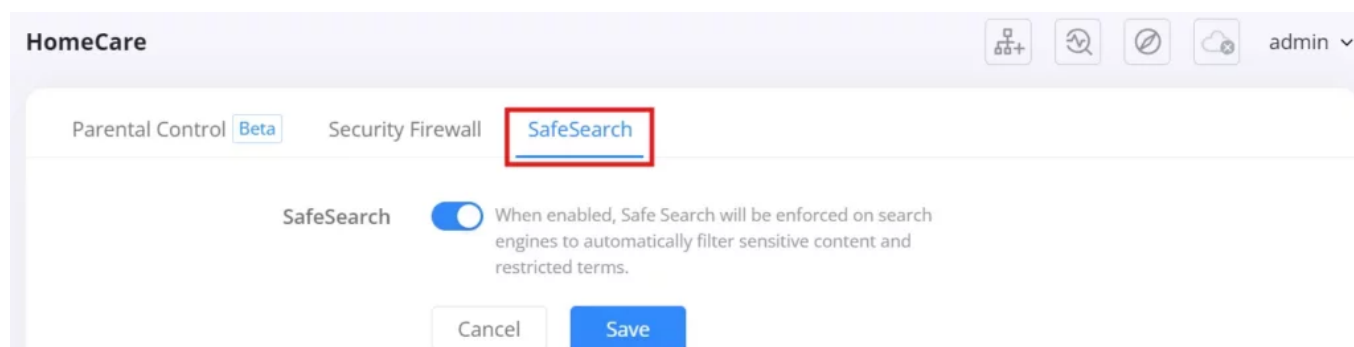
## SafeSearch

The SafeSearch feature is designed to help protect users, especially children, by blocking explicit or sensitive search results across supported search engines.

### ? Accessing SafeSearch

To access this feature:

1. Log in to the Web UI.
2. Navigate to **Basic -> HomeCare**.
3. Click on the **SafeSearch** tab.



SafeSearch

## ? Enabling SafeSearch

You will see a simple toggle switch labeled **SafeSearch**. When enabled:

- The router will enforce search filters on major search engines.
- This helps restrict access to adult content, inappropriate keywords, and sensitive search results.

After enabling the feature, click **Save** to apply changes.

## Management Platform

### Grandstream Home

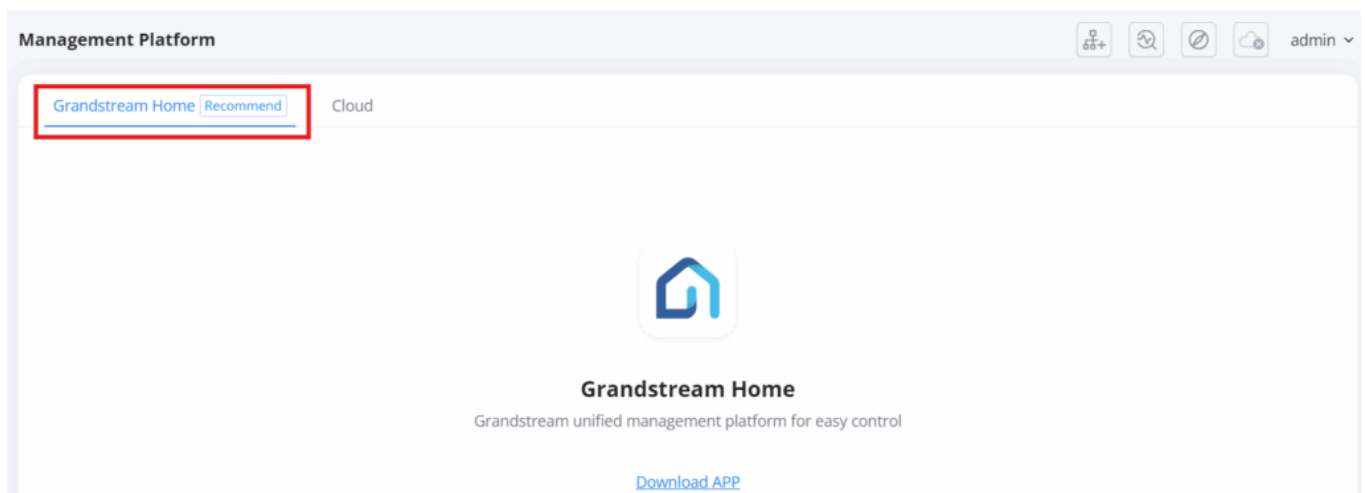
Grandstream Home is a simplified mobile-based platform designed for easy router control and setup within the local network. It's ideal for home users and small offices who want fast access to essential features without needing cloud registration or advanced configuration.

#### Key Features:

- Easy router setup in just a few taps
- Real-time monitoring of internet status and connected devices
- Mesh setup and pairing
- Parental Control
- Wi-Fi settings management
- Local notifications & diagnostics

#### How to Access:

1. Open the router's Web UI.
2. Go to **Basic -> Management Platform -> Grandstream Home**.
3. Click the "**Download APP**" link. A QR code will appear. Scan it with your phone to download and install the **Grandstream Home App** for Android(TM) or iOS(R).



*Grandstream Home App*

## Download Grandstream Home APP



You can download the Grandstream Home APP to remotely manage your router devices.,

Scan the QR code with your phone for instant installation.

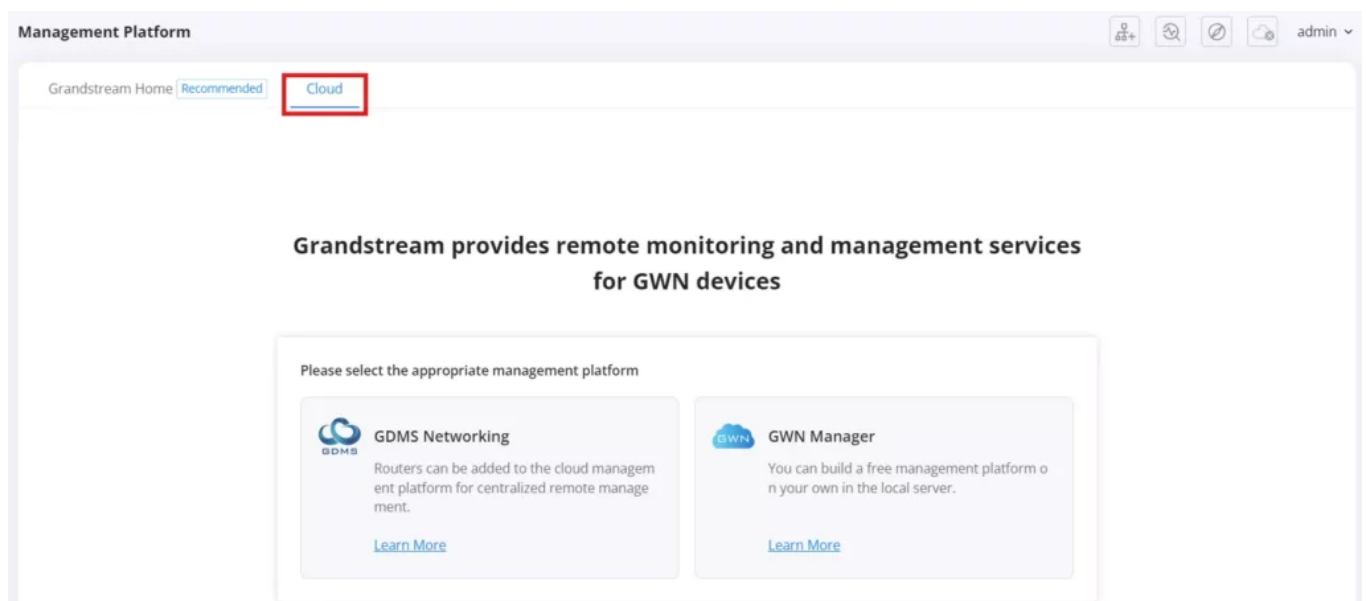


*Grandstream Home App*

For full usage instructions, please visit the official guide: **Grandstream Home User Guide**

### Cloud

The **Cloud** section in the routers allows users to remotely manage and monitor their routers using **Grandstream's cloud-based and on-premises management platforms**. This feature is particularly useful for businesses, IT administrators, and remote workers who require centralized management and control over their network.



*Cloud*

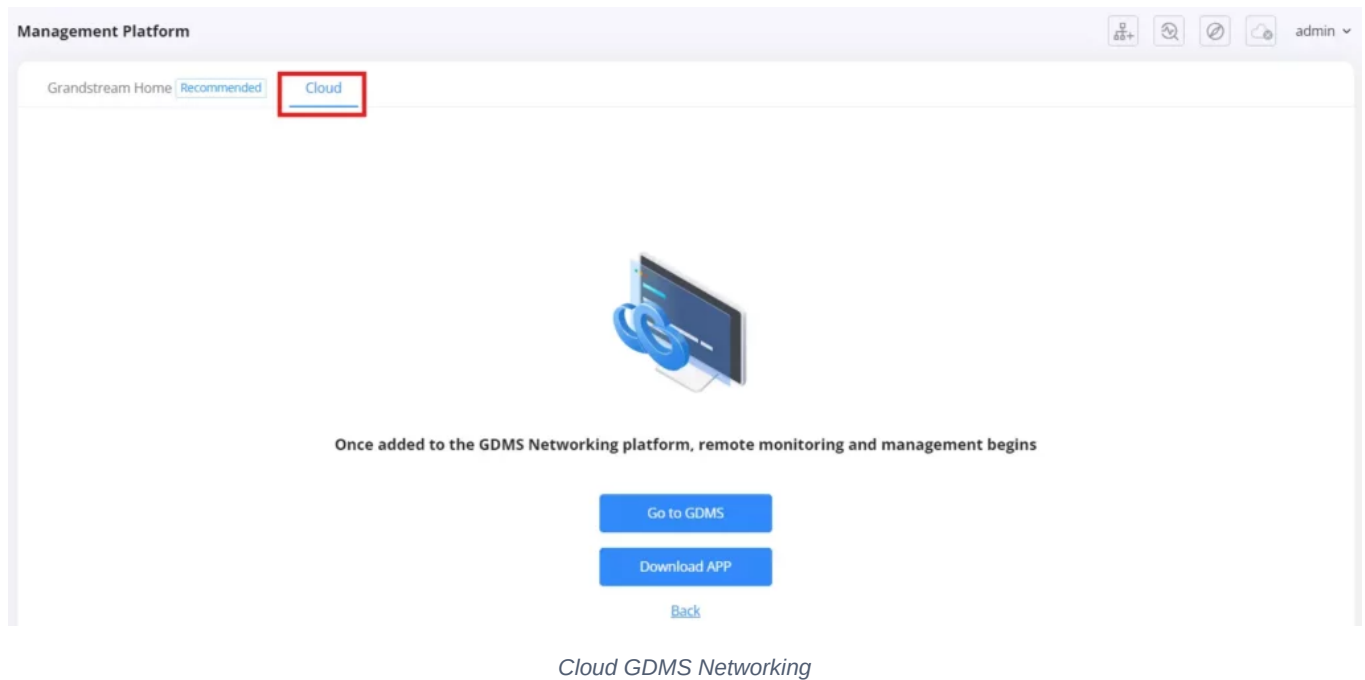
Users can choose between:

1. **GDMS Networking** - A cloud-based platform that allows for centralized remote management.
2. **GWN Manager** - A local, on-premises management solution.

This feature enhances flexibility by offering different deployment options and integration with mobile applications for easy access.

## GDMS Networking

The **GDMS Networking** feature enables remote monitoring and centralized management of GWN devices via the **Grandstream Device Management System (GDMS)**. By adding the router to the **GDMS Networking** platform, users can remotely configure, manage, and monitor their network from anywhere.



### Options Available:

- **Go to GDMS:** Clicking this button redirects users to the GDMS web portal, where they can sign in and manage their connected GWN devices.
- **Download APP:** This option provides access to the GDMS mobile application, available for download on both iOS and Android, for on-the-go network monitoring.

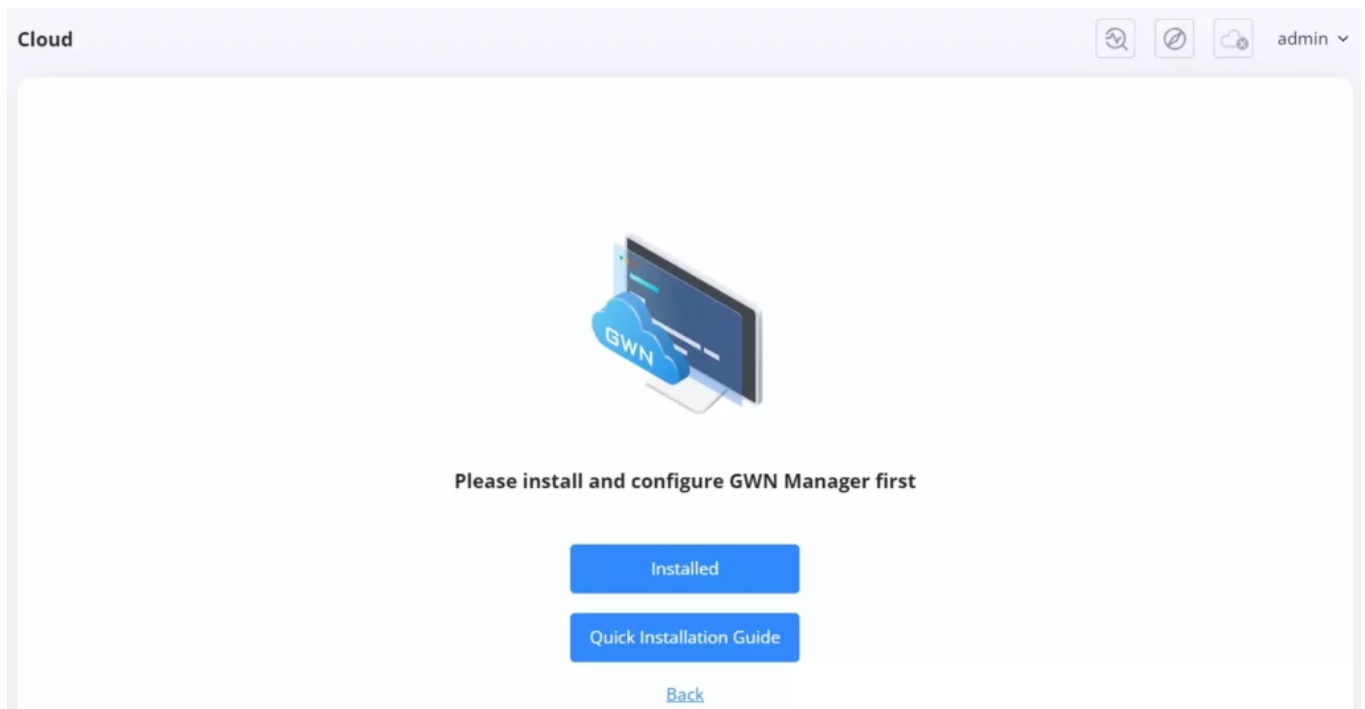
This integration allows network administrators to efficiently manage multiple devices remotely while ensuring real-time monitoring and configuration capabilities.

## GWN Manager

For users who prefer a local management platform, **GWN Manager** can be installed and configured.

### Installing GWN Manager

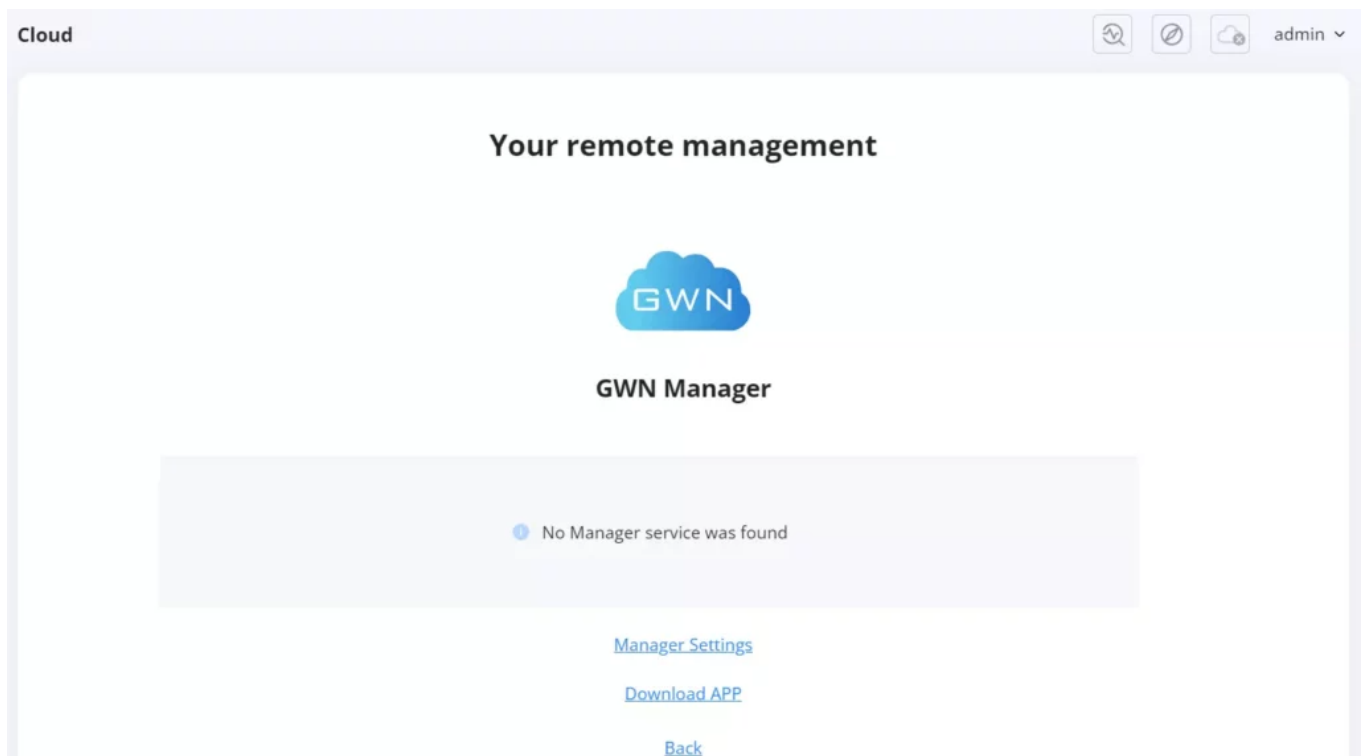
1. Click **Quick Installation Guide** to access the online installation manual.
2. Follow the setup instructions to install GWN Manager on a local server.
3. Click **Installed** once the setup is complete



*Cloud GWN Manager*

### Accessing GWN Manager

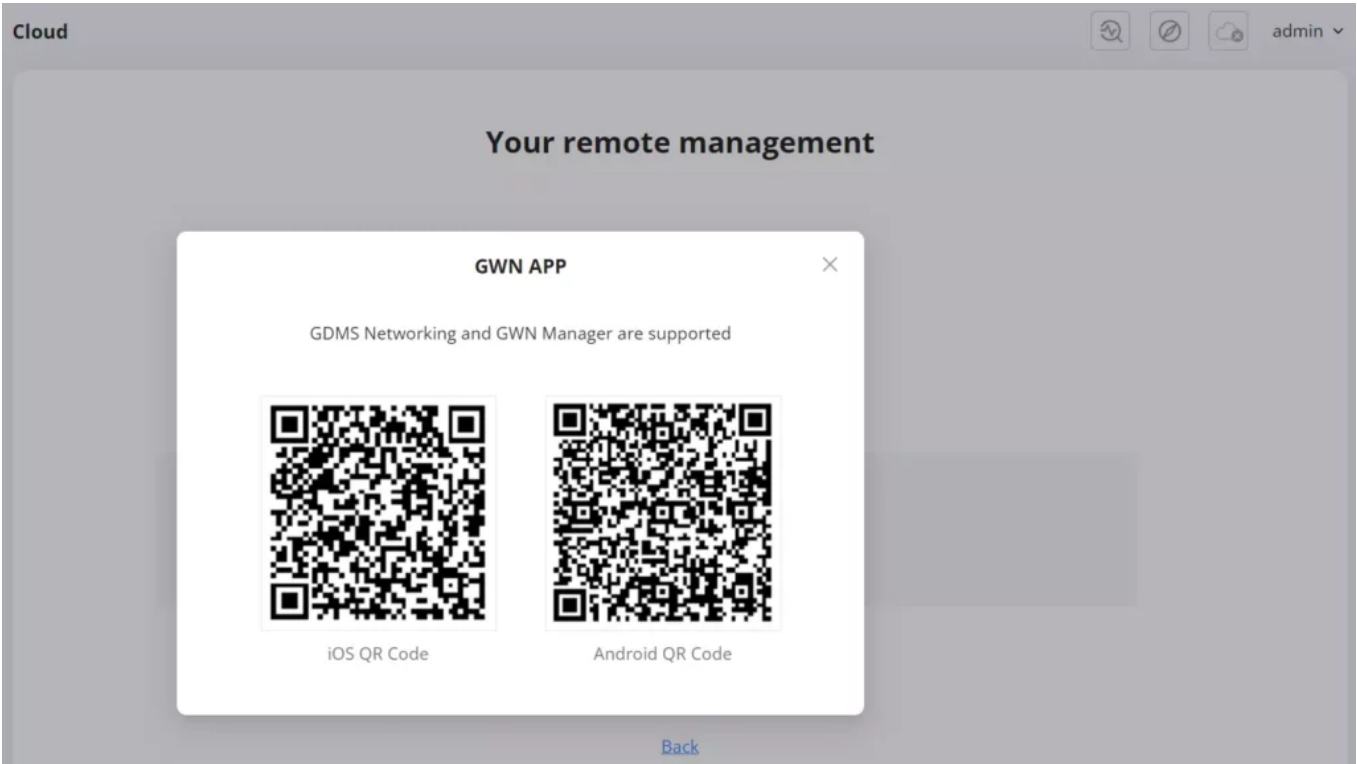
1. After installation, if no **GWN Manager service** is detected, an error message appears.
2. Options available:
  - **Manager Settings** - Configure a local GWN Manager instance.
  - **Download APP** - Install the mobile app for GWN Manager.



*Cloud GWN Manager page*

### Downloading the GWN App

1. Clicking **Download APP** opens a **QR Code** scanner.
2. Users can scan the code to download the **GWN App** for **iOS or Android**.

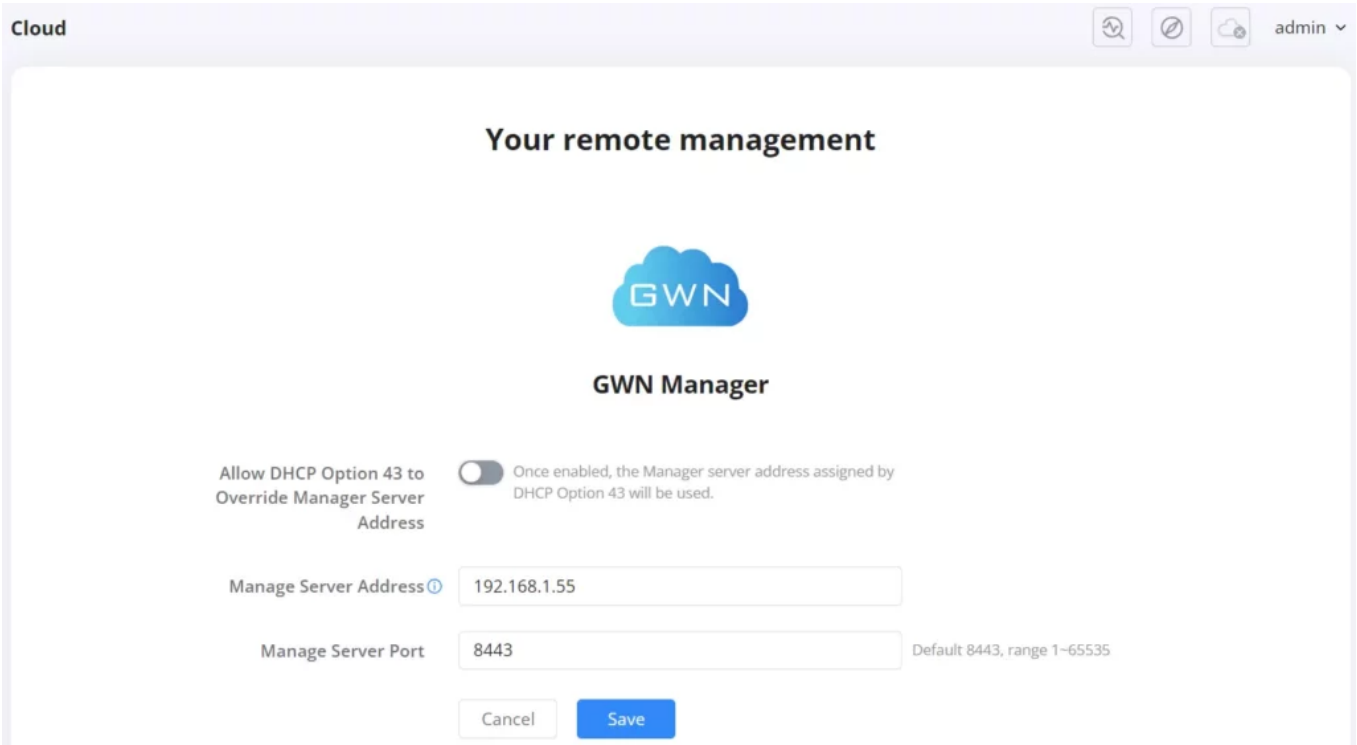


Cloud GWN Manager GWN App QR code

### Configuring GWN Manager

Users can connect to **GWN Manager** manually or automatically:

- **Automatic Configuration:** Uses **DHCP Option 43** to detect and assign the manager's server.
- **Manual Configuration:** Users input the **Manage Server Address** and **Port** manually.



Cloud GWN Manager Settings

## ADVANCED

Advanced mode unlocks more detailed and sophisticated network settings, suitable for IT professionals and advanced users who require granular control over their network. Key features include:

- **Overview:** A detailed dashboard of the router's performance and status.
- **Internet Settings:** WAN/LAN configurations, DHCP, static IP, and PPPoE settings.
- **Wi-Fi Settings:** Customization of SSIDs, encryption types, security protocols, and band selection.
- **Clients Management:** Monitoring and managing connected devices.
- **Traffic Management:** Advanced QoS, bandwidth control, and traffic shaping.
- **NAT & Security:** Port forwarding, DMZ, firewall, URL filtering, and DoS protection.
- **VPN:** Secure remote access with multiple VPN protocols (L2TP, PPTP, OpenVPN, WireGuard, IPSec).
- **IPv6 Support:** Configuration options for the next-generation Internet Protocol.
- **Captive Portal:** Guest network setup and authentication.
- **System & Maintenance:** Firmware upgrades, logs, backup configurations, and Working Mode selection.

This mode is recommended for **network administrators, power users, and businesses** needing fine-tuned security, performance, and network segmentation.

By switching between these modes, users can **balance ease of use with advanced functionality**, ensuring an optimized experience for both novice and expert users.

### Overview

**GWN7072 note:** Overview and channel-quality information include the 6 GHz radio in addition to 2.4 GHz and 5 GHz.

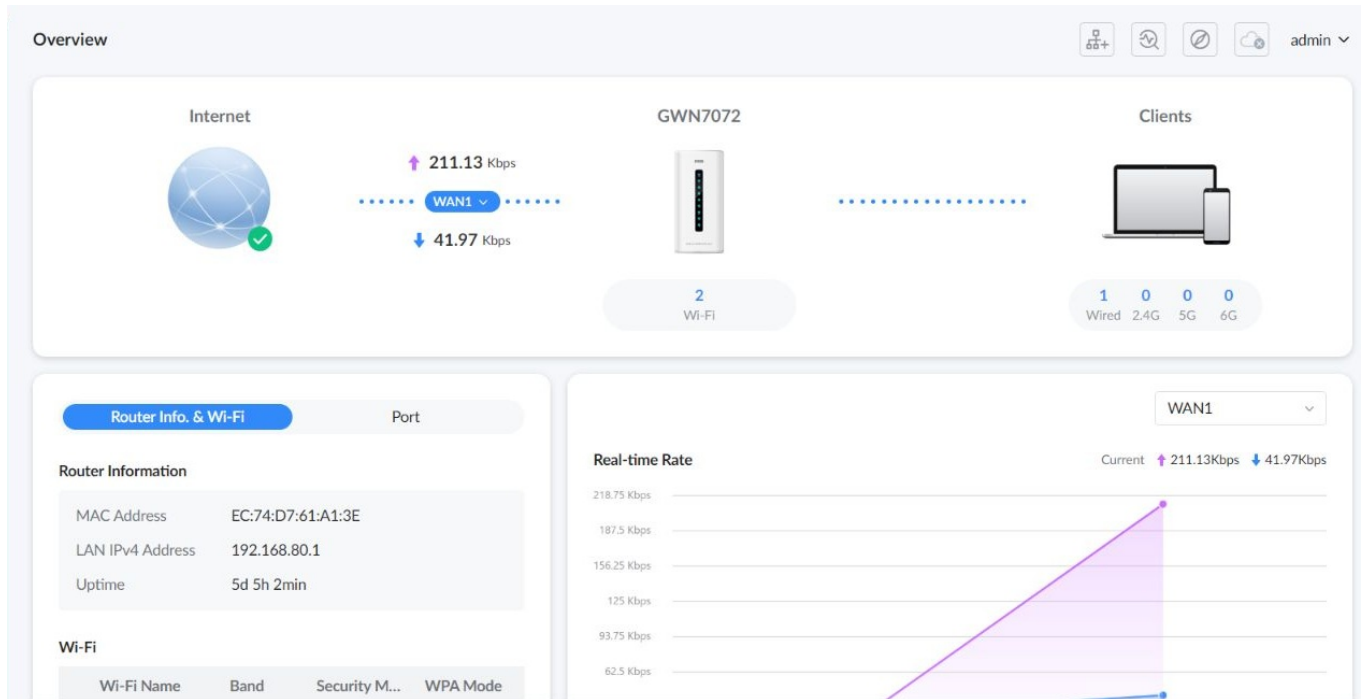
The **Overview Page** provides a real-time snapshot of the router's status, connected devices, and network performance. This page is **dynamic**, meaning users can interact with different sections for detailed insights and navigation to other settings.

### Interactive & Navigation Features

- Clicking on **Router, Mesh Nodes, or Client Devices** leads to their respective configuration pages.
- Hovering over graphs provides more detailed network activity.
- Statistics can be toggled between **Today, This Week, or This Month** to analyze trends over time.

This page serves as the **primary dashboard** for monitoring and managing network activity efficiently.

### Key Features of the Overview Page



Overview part 1

## 1. Network Status:

- Displays the current upload and download speeds.
- Clicking on the **router icon** navigates to the **Wi-Fi settings page**.
- Clicking on the **Mesh Nodes** section directs users to the **Mesh Page**.
- Clicking on the **Client Devices** (laptop and phone icons) leads to the **Clients Page**.

## 2. Router Information & Wi-Fi:

- Users can switch between **Port** and **Wi-Fi** views.
- Shows the status of different ports, including Combo ports, WAN, LAN, and USB.
- Displays **WAN status**, including:
  - Connection status (e.g., **Connected**).
  - Negotiation speed.
  - Duplex status.

## 3. IP & DNS Information:

- Displays **IPv4 Address**, **Gateway**, **DNS Server**, and **Uptime**.

## 4. Real-time Rate Graph:

- Shows **current network activity** in an interactive graph.
- Hovering over the graph reveals precise details of upload and download speeds at specific times.

## 5. History Traffic Graph:

- Users can **filter data** by **Today, This Week, or This Month**.
- Displays total data usage with **upload and download statistics**.

Overview 🔍 🔄 📶 admin ▾

Mesh 🔍

| Device                                                                                                    | Device Type | MAC Address       | IP Address | Status       |
|-----------------------------------------------------------------------------------------------------------|-------------|-------------------|------------|--------------|
|  GWN7062E <span>🔍</span> | GWN7062E    | EC:74:D7:5D:A8:1C | -          | Disconnected |

Overview part 2 Mesh Router is not connected

Overview 🔍 🔄 📶 admin ▾

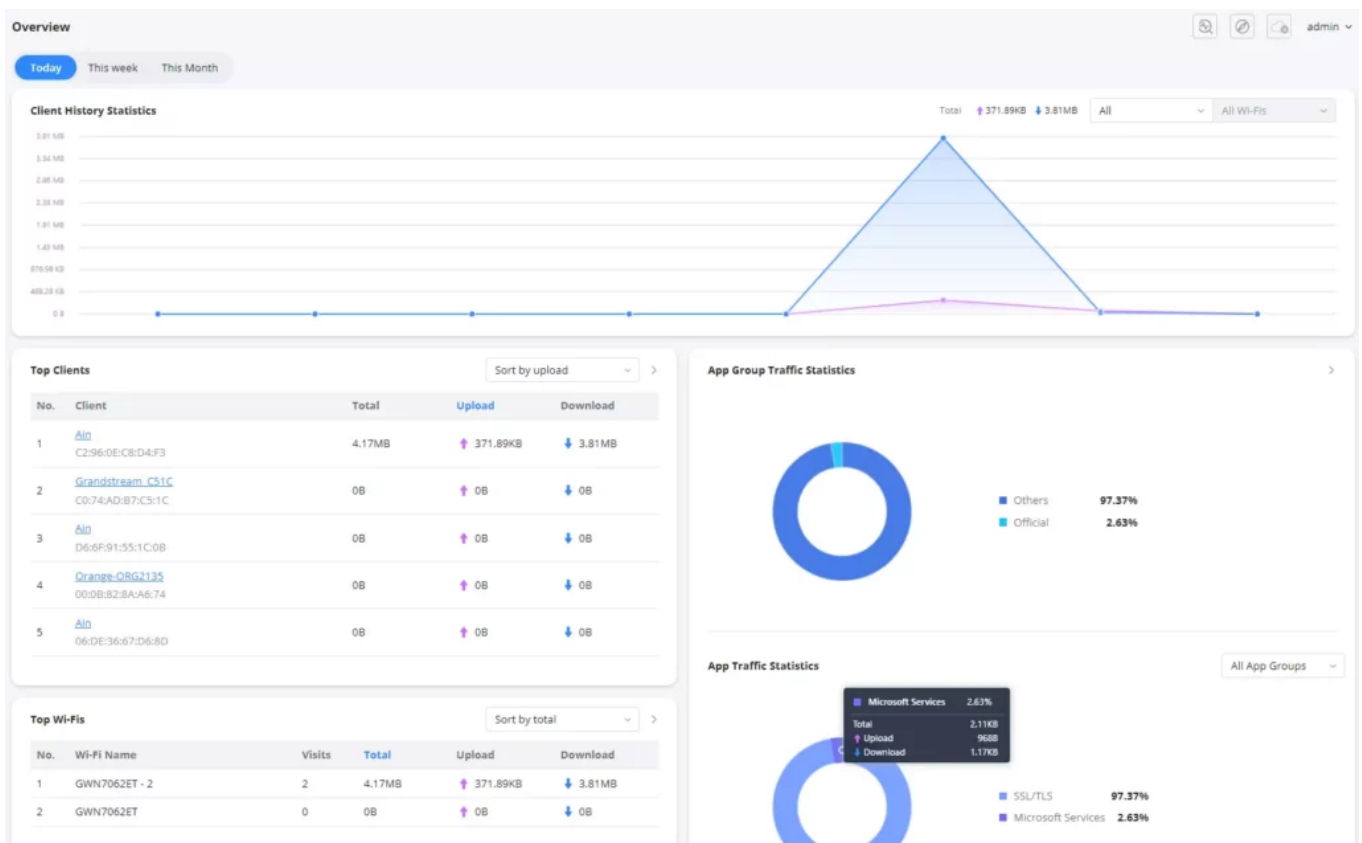
Mesh ➤

| Device                                                                                           | Online Clients | Device Model | MAC Address       | IP Address   | Status    |
|--------------------------------------------------------------------------------------------------|----------------|--------------|-------------------|--------------|-----------|
|  GWN7062ET_43F0 | 1              | GWN7062ET    | EC:74:D7:5D:A8:1C | 192.168.80.9 | Connected |

Overview part 2 Mesh Router is connected

## 6. Mesh Network Section:

- Shows **paired mesh devices**.
- Clicking on the **diagnostic icon** next to a mesh device directs users to the **Intelligent Detection -> Mesh Node Connection** settings.
- Clicking on the **arrow icon** leads to the **Mesh Page**.



Overview part 3

## 7. Client & Wi-Fi Statistics:

- Displays **top clients** based on data usage.
- Allows users to **sort by upload, download, or total usage**.
- Shows **Wi-Fi usage statistics**, including:

- Number of visits per Wi-Fi network.
- Upload and download data usage.

- **App Group Traffic Statistics:**

- Displays **percentage usage of different app categories**.

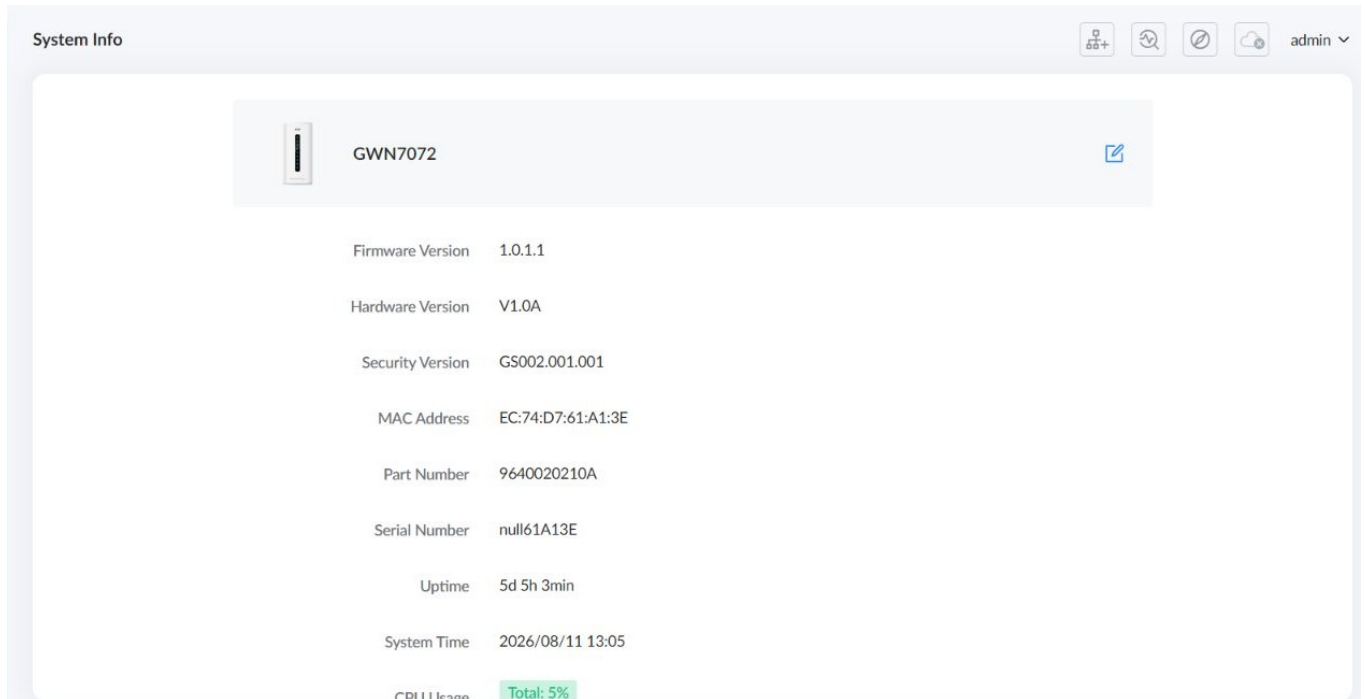
- **App Traffic Statistics:**

- Shows a **detailed breakdown of app traffic**, such as Microsoft Services, SSL/TLS, etc.
- Hovering over **app sections** reveals additional details about upload/download usage.

## System Info

The following details are displayed on this page:

- **Device Model:** Identifies the router model, e.g., **GWN7072**.
- **Firmware Version:** Displays the installed firmware version.
- **Hardware Version:** Indicates the router's hardware revision.
- **Security Version:** Displays the current security patch level included in the installed firmware. This helps verify if the router has the latest security updates and fixes.
- **MAC Address:** The unique network identifier assigned to the router.
- **Part Number:** Manufacturer's part number for the device.
- **Serial Number:** A unique identifier for tracking the device.
- **Uptime:** Displays the total time the router has been running since the last reboot.
- **System Time:** Shows the current time configured on the router.



Overview System Info

## Resource Monitoring

The **System Info** page also provides real-time monitoring of CPU and memory usage:

- **CPU Usage:**
  - Displays the total CPU utilization.
  - Shows individual core usage (e.g., **CPU 1** and **CPU 2**).
- **Memory Usage:**
  - Displays the percentage of **RAM utilization**.

## Use Case

This page is useful for:

- **Monitoring system performance** to check for resource bottlenecks.
- **Diagnosing issues** related to high CPU or memory usage.
- **Tracking uptime** to determine router stability.

## Internet Settings

**GWN7072 note:** When Port 5 or Port 4 is assigned as WAN, configure the port rate to match the connected uplink. The 10 GbE Combo WAN supports SFP+ or RJ45; if both are inserted, the electrical RJ45 interface is selected by default.

### Internet Setting

The **Internet Settings** page (Advanced -> Internet Settings -> Internet Settings) is used to configure the router's **WAN uplinks**. The top of the page provides separate tabs for **WAN1**, **WAN2**, and (when available) **USB WAN**, so each uplink can be configured independently.

### Port roles overview

| Interface / Port   | Label in UI | Purpose                         | Notes                                                                                                                 |
|--------------------|-------------|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Port 5 (10G Combo) | WAN1        | Primary WAN uplink              | Supports RJ45 Ethernet and SFP+ (only one can be active at a time).                                                   |
| Port 4 (Adaptive)  | WAN2        | Secondary WAN uplink (optional) | Functions as LAN by default. When WAN2 is enabled, Port 4 switches to WAN. Removing WAN2 restores Port 4 back to LAN. |
| USB Modem/Dongle   | USB WAN     | USB-based WAN uplink            | Only appears when a supported USB modem is detected.                                                                  |

### WAN1 (Port 5 - 10G Combo WAN)

WAN1 configures the dedicated **10 GbE Combo WAN port**, where you choose the active interface (RJ45 Ethernet or SFP+), set the port speed, and select the ISP connection type.

Internet Settings

WAN1

WAN2

2.5G Combo port supports automatic port switching. Once the WAN configuration is manually modified, the automatic switching feature will be disabled.

Enable

To configure WAN VLAN, please go to [\[Internet Settings-ISP\]](#) and select the corresponding working mode for configuration

Port

5

SFP

5

WAN(2.5G Combo)

Port Speed

Auto Negotiation

1000M

2500M

Internet Connection Type

Static IP

Dynamic IP

Static IP

PPPoE

L2TP

PPTP

IP Address

Subnet Mask

Default Gateway

Preferred DNS Server

Alternative DNS Server

WAN 1

### WAN1 fields

| Field                                         | Description                                                                                                                                                                                 |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enable                                        | Enables or disables WAN1 connectivity.                                                                                                                                                      |
| Port                                          | Selects the active interface on the 10 GbE Combo WAN port (RJ45 Ethernet or SFP+). Only one interface can be active at a time.                                                              |
| Port Speed                                    | Sets the supported WAN1 link rate. Choose a rate supported by the connected RJ45 or SFP+ interface.                                                                                         |
| Internet Connection Type                      | Selects how the router connects to the ISP. Common options include: Dynamic IP, Static IP, PPPoE, L2TP, PPTP. (The page will display the relevant input fields based on the selected type.) |
| Static DNS                                    | Enables or disables manual DNS server configuration.                                                                                                                                        |
| Preferred DNS Server / Alternative DNS Server | Manually sets DNS servers (visible when Static DNS is enabled).                                                                                                                             |
| Save / Cancel                                 | Saves changes or discards edits.                                                                                                                                                            |

**WAN1 note (Combo interface behavior)**

When both the RJ45 and SFP+ interfaces are connected, the **10 GbE electrical RJ45 interface is selected by default**. Configure the port rate to match the connected interface.

**Advanced Settings**

MAC Address of WAN Port

Use custom MAC address

Use the default address

Use the MAC address of current management PC

Use custom MAC address

\* Custom MAC Address

Multiple Public IP Address ⓘ

\* Public IP Address

203.0.113.10

203.0.113.12

Add IP Address

*WAN 1 Advanced Settings*

| Field                      | Description                                                                                                             |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------|
| MAC Address of WAN Port    | Displays the current WAN MAC address and lets the user select the default or a custom MAC address.                      |
| Custom MAC Address         | Appears when "Use custom MAC address" is selected. Enter the required MAC value.                                        |
| Multiple Public IP Address | Enables assigning more than one public IP (only use if your ISP provides multiple public IPs).                          |
| Public IP Address list     | Allows entering one or more public IPs. Use Add IP Address to add additional entries and the delete icon to remove one. |

*WAN 1 -Advanced Settings***WAN2 (Port 4 - Adaptive WAN/LAN)**

WAN2 configures **Port 4**, which is an **adaptive WAN/LAN port**. When WAN2 is enabled, Port 4 operates as a WAN uplink; if WAN2 is removed, Port 4 returns to LAN mode.

Internet Settings

WAN1

WAN2

Port4 supports adaptive function. After manually modifying WAN configuration, the adaptive function will be disabled and can be re-enabled after factory reset.

Delete WAN2

Enable

To configure WAN VLAN, please go to [Internet Settings - ISP](#) and select the corresponding working mode for configuration

Port

4

WAN/LAN

Internet Connection Type

Dynamic IP

Static DNS

Advanced Settings

MAC Address of WAN Port

Use the default address

MAC Address

EC:74:D7:61:AA:90

Multiple Public IP Address

Cancel

Save

WAN 2

WAN2 fields

| Field                    | Description                                                                                                      |
|--------------------------|------------------------------------------------------------------------------------------------------------------|
| Enable                   | Enables or disables WAN2 on Port 4.                                                                              |
| Delete WAN2              | Removes WAN2 configuration and returns Port 4 to LAN operation.                                                  |
| Port                     | Displays the active port assignment (Port 4 shown as WAN/LAN).                                                   |
| Internet Connection Type | Selects the ISP connection type for WAN2 (e.g., Dynamic IP, Static IP, PPPoE, etc., depending on firmware/UI).   |
| Static DNS               | Enables manual DNS configuration for WAN2.                                                                       |
| Advanced Settings        | Provides the same options as WAN1 Advanced Settings (MAC behavior, multiple public IPs), when supported/visible. |
| Save / Cancel            | Saves changes or discards edits.                                                                                 |

WAN 2

WAN2 notes:

- A banner may indicate that **Port 4 supports adaptive functionality**, and that **manual WAN configuration changes can disable the adaptive function** until a **factory reset** (as stated in the UI banner).
- If the page displays a hint about **WAN VLAN**, follow the UI guidance and configure it under **Internet Settings - ISP**.

USB WAN

The **USB WAN** tab is used to configure a **USB modem/dongle** uplink. This tab is **not visible** unless the router detects a supported USB modem.

USB WAN

WAN1

WAN2

After manually modifying USB WAN settings, adaptive function for all WAN ports will disabled. Factory reset to re-enabl

USB WAN Settings

Beta

Enable

Internet Connection Type

4G USB Modem (DHCP)

APN

8457944@#¥.jdset测试

0-64 character:

SIM PIN

●●●●●●●●

0-64 character:

USB Modem Login Password

●●●●●●●●

0-32 character:

Authentication Type

PAP

Username

543

0-64 character:

Password

●●●●

0-64 character:

Static DNS

Preferred DNS Server

8.8.8.8

USB WAN

## USB WAN fields

| Field                    | Description                                                                                                                               |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Enable                   | Enables or disables the USB WAN uplink.                                                                                                   |
| Internet Connection Type | Selects the USB WAN connection mode (example shown: 4G USB Modem (DHCP)). Available options may vary depending on the modem and firmware. |
| APN                      | Sets the cellular APN provided by the carrier.                                                                                            |
| SIM PIN                  | PIN code for the SIM card (required only if the SIM is PIN-locked).                                                                       |
| USB Modem Login Password | Credentials required by some USB modems/carriers (if applicable).                                                                         |
| Authentication Type      | Authentication method used by the carrier/modem (example shown: PAP).                                                                     |
| Username / Password      | Carrier/modem credentials (if required).                                                                                                  |
| Static DNS               | Enables manual DNS configuration.                                                                                                         |
| Preferred DNS Server     | DNS server to use when Static DNS is enabled.                                                                                             |
| Save / Cancel            | Saves changes or discards edits.                                                                                                          |

USB WAN

## USB WAN note (adaptive behavior impact)

A banner may warn that **manually modifying USB WAN settings can disable adaptive functions for WAN ports**, and that a **factory reset** may be required to re-enable them (follow the exact wording shown in the UI banner).

## LAN Settings

The **LAN Settings** page under **Advanced -> LAN Settings** allows users to manage the local area network configuration of the GWN7072. This includes defining VLAN interfaces, assigning VLANs to LAN ports, and binding specific IP addresses to devices on the network.

From this section, users can:

- Create and manage **LAN VLANs**, including IP addressing and DHCP configuration.
- Assign VLAN IDs and tagging behavior to physical ports under **VLAN Port Settings**.
- Reserve or bind IP addresses to specific client MAC addresses using **Address Binding**.

These settings apply to all LAN-designated ports (Ports **1-3**, or **Port 4** when not used as WAN2) and help segment and control internal network traffic efficiently.

### VLAN

The **VLAN** tab lists all LAN VLAN interfaces and lets you add or modify VLANs used on the LAN side of the GWN7072.

- **Add** creates a new LAN VLAN.
- **Delete** removes selected VLANs (the default VLAN cannot be deleted).
- Columns: **VLAN ID**, **VLAN Name**, **IPv4 Address**, **DHCP Server**, **Address Pool**, **Operations**.

### Limits

- Up to **16** VLANs total (including the default VLAN).
- **VLAN 1 (Default)** is built-in. It cannot be deleted and can only be edited.

LAN Settings

VLAN

VLAN Port Settings

Address Binding

Add

Delete

| <input type="checkbox"/> | VLAN ID | VLAN Name | IPv4 Address | DHCP Server | Address Pool                | Operations |
|--------------------------|---------|-----------|--------------|-------------|-----------------------------|------------|
| <input type="checkbox"/> | 1       | Default   | 192.168.80.1 | Enabled     | 192.168.80.2-192.168.80.254 |            |

Add a VLAN

Click **Add** to open the VLAN form.

\* VLAN ID  Range 2-4094

VLAN Name  0-64 characters

Enable ☒

\* IPv4 Address

\* Subnet Mask

DHCP Server ☒

\* Address Pool  -

\* Release Time(m)  Range 60-2880

\* Default Gateway

Preferred DNS Server

Alternative DNS Server

IPv4 Routed Subnet ☒

\* Interface ☒ WAN1 ☐ WAN2

[Edit a VLAN](#)

## - VLAN ID

- Numeric ID for the VLAN. Valid per 802.1Q (2-4094).
- Subject to the device limit of **16 VLANs** total.
- **VLAN Name:** Optional label, 0-64 characters.
- **Enable:** Turns this VLAN interface on or off.
- **Forwarding Destination Group:** Select one or more destination groups that this VLAN can use for traffic forwarding (for example, WAN1 (WAN), WAN2 (WAN), VPN interfaces, or other VLAN groups). If All is selected, all existing interfaces are included, and any new interfaces created later will be automatically added to the group.
- **IPv4 Address:** Router's address on this VLAN (gateway IP).
- **Subnet Mask:** Netmask for the VLAN.
- **DHCP Server**
  - When enabled, the router serves IPs to clients on this VLAN.
  - **Address Pool:** start and end IP within the VLAN subnet.
  - **Release Time (m):** DHCP lease time in minutes (range **60-2880**).
- **Default Gateway:** Gateway for clients if different from the VLAN IP (optional; typically the VLAN IP).
- **Preferred DNS Server / Alternative DNS Server:** Optional DNS servers handed out by DHCP.
- **IPv4 Routed Subnet**

- When enabled, clients in this VLAN can use **public/real IP addresses** delivered by the ISP through routing instead of NAT.
- **Interface:** choose **WAN1** or **WAN2** as the upstream for the routed subnet.

**Save** to create the VLAN. The new VLAN appears in the list and can then be assigned to ports in **LAN Settings -> VLAN Port Settings**.

#### Notes:

- VLAN settings apply to LAN-designated ports (Ports **1-3**, and **Port 4** only when it is not configured as **WAN2**).
- Deleting a VLAN removes its DHCP scope and addressing; clients on that VLAN will lose connectivity until reconfigured.

## VLAN Port Settings

The **VLAN Port Settings** tab allows users to assign VLANs to the physical LAN ports of the GWN7072. Each port can be configured with one **PVID (Port VLAN ID)** and multiple **Allowed VLANs**.

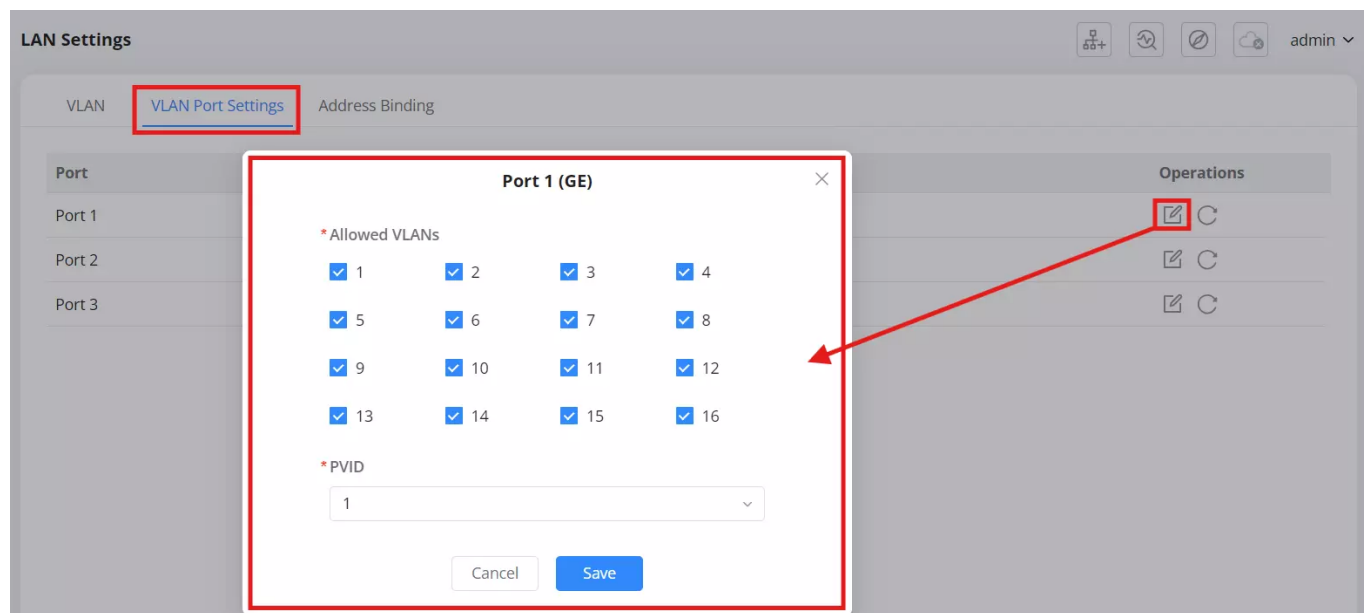


| Port   | PVID | Allowed VLANs | Operations                                                                                                                                                                |
|--------|------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Port 1 | 1    | 1-16          |     |
| Port 2 | 1    | 1-16          |     |
| Port 3 | 1    | 1-16          |   |

*VLAN Port Settings*

## Editing Port VLAN Settings

Click the **Edit** icon under the **Operations** column to modify a port's VLAN configuration.



VLAN

VLAN Port Settings

Address Binding

| Port   | PVID | Allowed VLANs | Operations                                                                                                                                                                  |
|--------|------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Port 1 | 1    | 1-16          |   |
| Port 2 | 1    | 1-16          |   |
| Port 3 | 1    | 1-16          |   |

Port 1 (GE)

\* Allowed VLANs

☒ 1

☒ 2

☒ 3

☒ 4

☒ 5

☒ 6

☒ 7

☒ 8

☒ 9

☒ 10

☒ 11

☒ 12

☒ 13

☒ 14

☒ 15

☒ 16

\* PVID

1

Cancel

Save

*Edit VLAN Port Settings*

#### Available Options:

- **Allowed VLANs** - Select which VLANs are permitted to transmit traffic through this port.

- Multiple VLANs can be checked at once (a maximum of **16 VLANs**).
- VLAN IDs available here correspond to VLANs created in the **VLAN** tab.
- **PVID (Port VLAN ID)** - Defines the default VLAN ID for untagged packets entering this port.
  - Only one VLAN ID can be assigned as the PVID.
  - Tagged traffic uses its existing VLAN ID, while untagged traffic is assigned the PVID automatically.

After selecting the VLANs and PVID, click **Save** to apply the configuration.

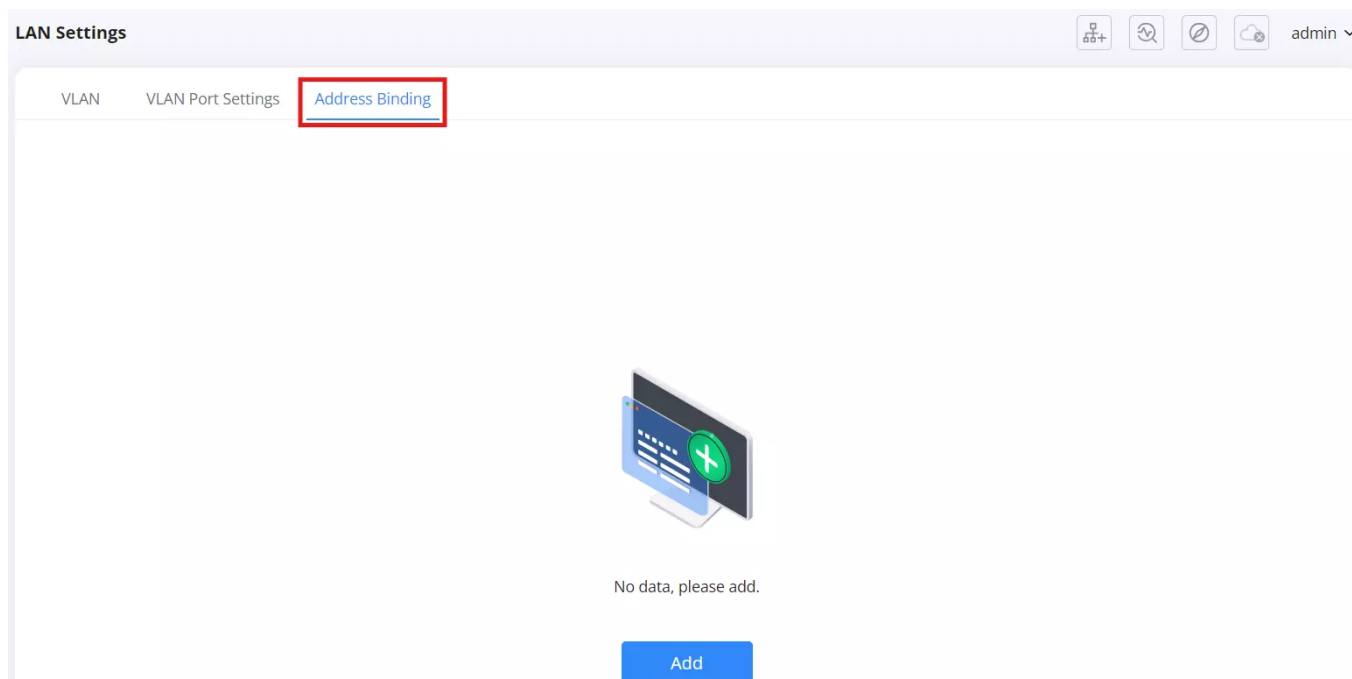
### Notes

- Only **LAN-designated ports** (Ports **1-3**, or **Port 4** when not used as WAN2) appear here.
- The **PVID** must correspond to one of the VLANs in the **Allowed VLANs** list.
- Changing VLAN assignments may temporarily interrupt client connections on the modified ports.

## Address Binding

The **Address Binding** tab allows users to assign a fixed IP address to a specific device (MAC address) within the LAN. This ensures that a device always receives the same IP address from the DHCP server.

Click **Add** to create a new address binding.



*Address Binding tab*

## Adding an Address Binding

### Generation Mode:

- **Add Manually** - Enter the device's **MAC Address** and the desired **IP Address** manually.
- **Select from Clients** - Choose a device from the list of currently connected clients (wired or wireless). The MAC address is filled in automatically.

LAN Settings > **Add Address Binding**

If the client use random MAC address, the MAC address will be inaccurate. Please disable random MAC address function on client side [How to disable?]

Generation Mode ☒ Add Manually ☐ Select from clients

\* MAC Address

\* IP Address

Address Binding Add Manually

- **MAC Address** - The unique hardware address of the client device.
- **IP Address** - The static IP address to assign to this device. **Note:** The IP address must be within the subnet range of the VLAN to which the device belongs. Otherwise, the binding will not take effect

LAN Settings > **Add Address Binding**

If the client use random MAC address, the MAC address will be inaccurate. Please disable random MAC address function on client side [How to disable?]

Generation Mode ☐ Add Manually ☒ Select from clients

\* Client Name

\* IP Address

Address Binding Select from clients

After entering the required details, click **Save** to apply the configuration.

### Important Notes

- If a client uses a **random MAC address** (as is common on some mobile devices), the MAC address displayed may be inaccurate.  
To ensure proper binding, disable the random MAC feature on the client device.
- Bound IP addresses will not be dynamically reassigned by DHCP to other clients.
- Address bindings can be viewed, modified, or deleted from this tab as needed.

### ISP

The **ISP** section allows users to configure dedicated Internet Service Provider settings for various services such as **IPTV**, **VoIP**, and **Internet**. It provides flexible VLAN and port-based configuration options to ensure reliable traffic segmentation and optimized performance. On the **GWN7072**, both **WAN1** and **WAN2** can be configured independently, allowing different VLAN or service assignments per interface.

This section contains two tabs:

- **Working Mode**, where users define VLAN and service mapping for each WAN interface.
- **IGMP**, where multicast proxy and snooping functions can be enabled for IPTV or streaming environments.

These features are designed for advanced network setups that require service isolation, priority management, and multicast optimization.

## Working Mode

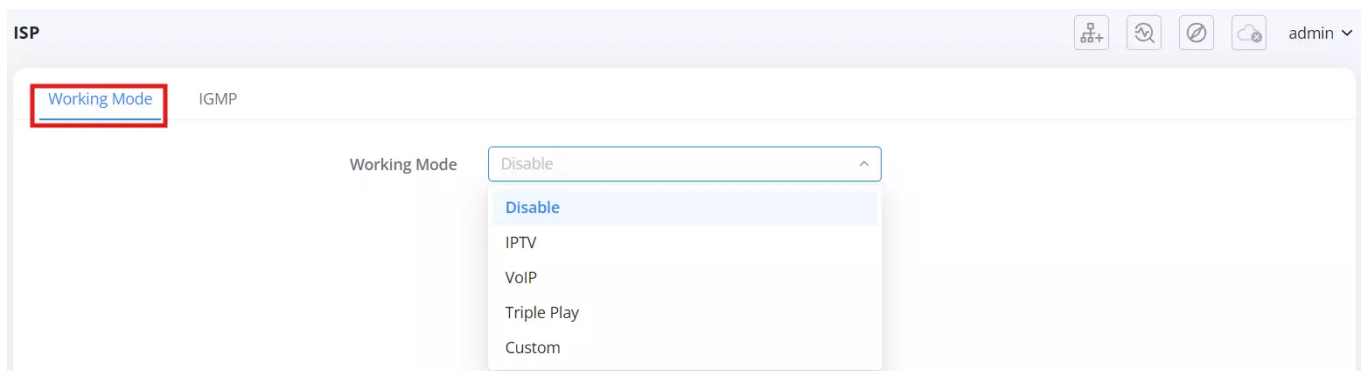
The **Working Mode** tab allows users to define how the router manages and separates different types of service traffic, such as **Internet**, **IPTV**, and **VoIP**. Each mode provides a specific configuration path to optimize network performance and assign VLANs or dedicated LAN ports for the selected service.

Users can select the preferred working mode from the dropdown list, which includes the following options:

- **Disable** - Deactivates service-specific VLAN configuration.
- **IPTV** - Enables IPTV-specific VLAN and port setup for smooth streaming.
- **VoIP** - Prioritizes and isolates voice communication traffic.
- **Triple Play** - Combines Internet, IPTV, and VoIP configurations under one setup.
- **Custom** - Allows advanced manual VLAN mapping for unique network requirements.

**Note:** When both WAN ports are active, each WAN can be configured independently under ISP settings, except in **Triple Play** mode, which applies a single configuration for both.

Each mode activates a different configuration interface to match its purpose. Once the desired mode is selected, users can define parameters such as VLAN IDs, priorities, and port assignments.



*Working Mode Options*

### - Working Mode - IPTV

The **IPTV** mode is used to configure a dedicated VLAN and LAN port for Internet Protocol Television (IPTV) services. It isolates IPTV traffic from regular Internet data, ensuring smooth video streaming and stable performance. This feature is designed for users whose Internet Service Providers (ISPs) require VLAN tagging or port-specific assignment for IPTV set-top boxes.

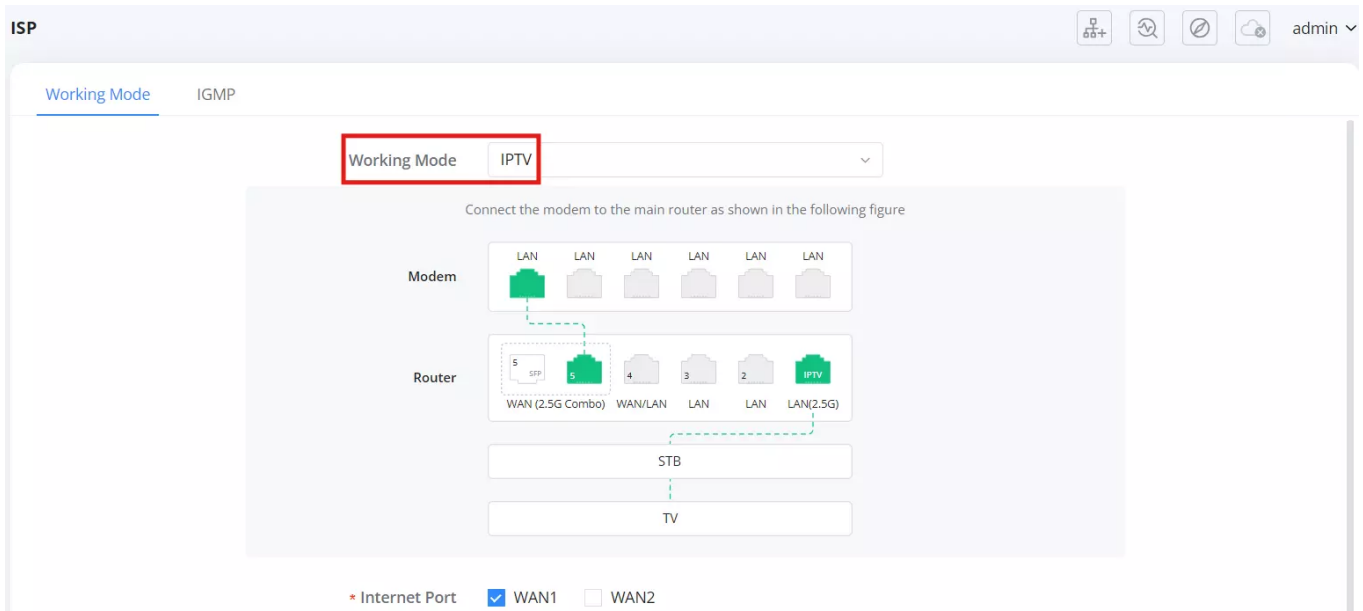
### Configuration Overview

When selecting **IPTV** from the **Working Mode** dropdown list, the interface displays configuration options for the IPTV setup, as shown below.

Follow the on-screen topology diagram to connect your modem and router correctly.

- Connect the **modem's LAN port** to the **GWN7072 10 GbE Combo WAN** port.
- Connect the IPTV device (STB or Smart TV) to the router's **dedicated IPTV LAN port**.

This ensures that IPTV traffic is transmitted over a dedicated VLAN and isolated from other services.



Working Mode IPTV Part 1

## IPTV Configuration Fields

- **Internet Port** - You can select and configure multiple WAN ports (e.g., WAN1 and/or WAN2) to handle IPTV traffic independently when using IPTV, VoIP, or Custom working modes.
  - **IPTV Port** - Choose the LAN port to assign for IPTV service. (e.g., **Port 1**, **Port 2**, or **Port 3**).
  - **ISP** - Select your ISP profile from the predefined list or choose **Custom** to configure manually. Available ISP profiles include regional providers such as: Malaysia-Maxis 1, Malaysia-Maxis 2, Malaysia-Unifi, Portugal-Vodafone, Singapore-Singtel, and Vietnam-Viettel.
  - **802.1Q Tag** - Enable to apply VLAN tagging for Internet and IPTV traffic according to ISP requirements.
  - **Internet VLAN / IPTV VLAN** - Enter VLAN IDs in the range **2-4094**.
  - **Internet VLAN 802.1p / IPTV VLAN 802.1p** - Define the VLAN priority values (**0-7**, where **7** is highest).
- After filling in all required parameters, click **Save** to apply changes.

### WAN1

\* IPTV Port ⓘ ☒ Port 1 ☐ Port 2 ☐ Port 3

\* ISP Custom

802.1Q Tag ⓘ ☒

\* Internet VLAN  Range 2~4094

\* Internet VLAN 802.1p  Range 0-7. 7 is the highest priority.

\* IPTV VLAN  Range 2~4094

\* IPTV VLAN 802.1p  Range 0-7. 7 is the highest priority.

Cancel Save

## WAN1

\* IPTV Port ⓘ ☒ Port 1 ☐ Port 2 ☐ Port 3

\* ISP

802.1Q Tag ⓘ

\* Internet VLAN

\* Internet VLAN 802.1p

\* IPTV VLAN

\* IPTV VLAN 802.1p

Custom

Malaysia-Maxis 1

Malaysia-Maxis 2

Malaysia-Unifi

Portugal-Vodafone

Singapore-Singtel

Vietnam-Viettel

Range 2~4094

Range 0-7. 7 is the highest priority.

Range 2~4094

Range 0-7. 7 is the highest priority.

Cancel Save

## Working Mode IPTV Part 3

## Notes:

- VLAN and priority values must match those provided by the ISP; incorrect values may prevent IPTV service from functioning.
- Each WAN interface can be configured independently under IPTV mode.
- This mode does not support **Method Selection**. Multicast handling is managed automatically through IGMP settings.
- **Working Mode - VoIP**

The **VoIP** mode is designed to optimize and isolate Voice over IP traffic for stable and high-quality communication. It enables VLAN tagging and dedicated port assignment for VoIP devices such as IP phones or ATAadapters.

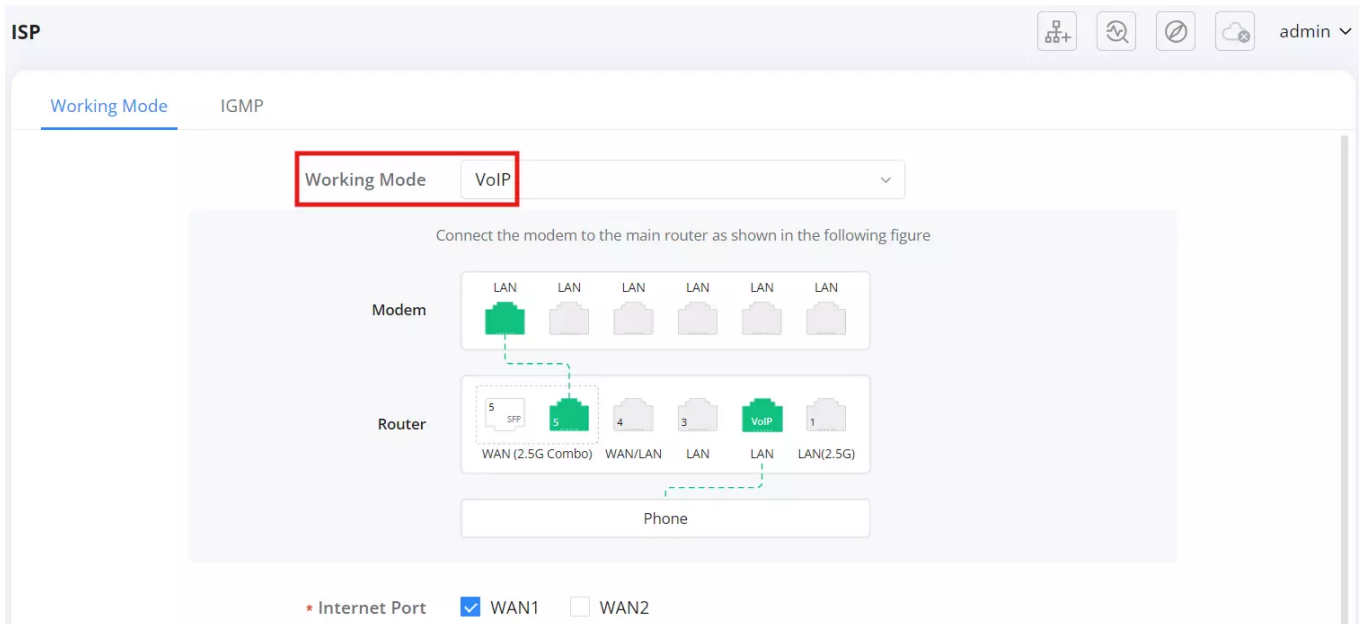
This setup ensures voice packets receive higher priority on the network, reducing jitter, delay, and packet loss.

## Configuration Overview

When **VoIP** is selected from the **Working Mode** dropdown list, the interface displays configuration options for assigning the Internet port, VoIP LAN port, and VLAN settings.

Follow the visual topology diagram to correctly connect the modem and router:

- Connect the **modem's LAN** port to the **10 GbE Combo WAN** port of the GWN7072.
- Connect the VoIP device (e.g., IP phone) to the router's **dedicated VoIP LAN port**.



Working Mode VoIP Part 1

## VoIP Configuration Fields

- **Internet Port** - Select which WAN port (WAN1 or WAN2) will carry VoIP traffic.
- **VoIP Port** - Choose the LAN port used for VoIP service (e.g., Port 1, Port 2, or Port 3).  
(Select the port as the VoIP port based on the connection between the modem and the main router.)
- **ISP** - Choose the ISP profile from the predefined list or select **Custom** to configure manually.  
Available profiles may include: Malaysia-Maxis 1, Portugal-Vodafone, and Vietnam-Viettel.
- **802.1Q Tag** - Enable to mark VoIP or Internet traffic with VLAN tagging.  
(Configures whether to enable 802.1Q Tag to mark Internet data or not.)
- **Internet VLAN** - Enter the VLAN ID for Internet traffic (**Range: 2-4094**).
- **Internet VLAN 802.1p** - Assign traffic priority (**Range: 0-7**, where **7** is the highest priority).
- **VoIP VLAN** - Specify the VLAN ID for VoIP traffic (**Range: 2-4094**).
- **VoIP VLAN 802.1p** - Define VLAN priority for VoIP (**Range: 0-7**, where **7** is the highest).

Click **Save** to apply the configuration.

## WAN1

\* VoIP Port ⓘ ☒ Port 1 ☐ Port 2 ☐ Port 3

\* ISP Custom ▾

802.1Q Tag ⓘ ☒

\* Internet VLAN  Range 2~4094

\* Internet VLAN 802.1p  Range 0-7. 7 is the highest priority.

\* VoIP VLAN  Range 2~4094

\* VoIP VLAN 802.1p  Range 0-7. 7 is the highest priority.

Working Mode VoIP Part 2

## WAN1

\* VoIP Port ⓘ ☒ Port 1 ☐ Port 2 ☐ Port 3

\* ISP Custom ▾

802.1Q Tag ⓘ

\* Internet VLAN  Range 2~4094

Custom  
Malaysia-Maxis 1  
Portugal-Vodafone  
Vietnam-Viettel

Working Mode VoIP Part 3

### Notes:

- Ensure VLAN IDs and priorities match your ISP's requirements; incorrect values may cause VoIP service failure.
- Each WAN interface can be configured independently in VoIP mode.
- This mode is suitable for VoIP service providers requiring VLAN tagging or dedicated port mapping for SIP-based devices.
- **Working Mode - Triple Play**

**Triple Play** configures Internet, IPTV, and VoIP services together under a single profile.

**Important:** When two WANs are available, ISP settings can be configured separately per WAN for other modes. **Triple Play is the exception** and applies as one combined configuration. You may select which WAN interface this profile uses, but you cannot create separate Triple Play profiles for both WANs.

ISP

Working Mode

IGMP

Working Mode

Triple Play

\* Internet Port

☒ WAN1
☐ WAN2

\* IPTV Port ⓘ

☒ Port 1
☐ Port 2
☐ Port 3

\* VoIP Port ⓘ

☐ Port 1
☒ Port 2
☐ Port 3

\* ISP

Custom

802.1Q Tag ⓘ

☒

\* Internet VLAN

Range 2~4094

\* Internet VLAN 802.1p

Range 0-7. 7 is the highest priority.

\* IPTV VLAN

Range 2~4094

\* IPTV VLAN 802.1p

Range 0-7. 7 is the highest priority.

\* VoIP VLAN

Range 2~4094

\* VoIP VLAN 802.1p

Range 0-7. 7 is the highest priority.

Cancel

Save

Working Mode Triple Play

## Configuration Fields

- **Internet Port**  
Select the WAN interface used by the Triple Play profile: **WAN1** or **WAN2**.
- **IPTV Port**  
Choose the LAN port assigned to the IPTV service (**Port 1 / Port 2 / Port 3**).  
Tooltip: Select the port as the IPTV port based on the connection mode between the modem and the main router.
- **VoIP Port**  
Choose the LAN port assigned to the VoIP service (**Port 1 / Port 2 / Port 3**).  
Tooltip: Select the port as the VoIP port based on the connection between the modem and the main router.
- **ISP**  
Select a predefined ISP profile or **Custom** for manual entry.  
Available options in the list: **Custom, Malaysia-Maxis 1, Portugal-Vodafone, Vietnam-Viettel**.
- **802.1Q Tag**  
Toggle to enable VLAN tagging for the Internet, IPTV, and VoIP services within this profile.  
Tooltip: Configures whether to enable the 802.1Q tag to mark Internet data or not.
- **Internet VLAN**  
Enter VLAN ID for Internet traffic (**Range: 2-4094**).
- **Internet VLAN 802.1p**  
Enter priority for Internet VLAN (**Range: 0-7**, where **7** is highest).
- **IPTV VLAN**  
Enter VLAN ID for IPTV traffic (**Range: 2-4094**).
- **IPTV VLAN 802.1p**  
Enter priority for IPTV VLAN (**Range: 0-7**, where **7** is highest).
- **VoIP VLAN**

Enter VLAN ID for VoIP traffic (**Range: 2-4094**).

- **VoIP VLAN 802.1p**

Enter priority for VoIP VLAN (**Range: 0-7**, where **7** is highest).

- **Save / Cancel**

Click **Save** to apply the Triple Play configuration.

**Notes:**

- VLAN IDs and priority values must match your ISP's requirements. Incorrect values will prevent the service from working.
- Triple Play uses a single WAN at a time. To split IPTV and VoIP across different WANs, configure **IPTV** and **VoIP** modes separately instead of Triple Play.

**Working Mode - Custom**

The **Custom** mode provides advanced VLAN and port mapping flexibility for complex network setups. It allows users to manually define VLAN IDs, traffic priorities, and port bridges to isolate or prioritize specific traffic types. This mode is intended for professional or enterprise users who need granular control over WAN and LAN segmentation.

**Note:** When both WAN ports are active, each WAN can be configured independently under ISP settings. This allows separate VLAN or port mappings per WAN.

ISP

Working Mode IGMP

Working Mode Custom

\* Internet Port ☒ WAN1 ☐ WAN2

**WAN1**

802.1Q Tag ☒

\* WAN VLAN  Range 2~4094

\* WAN VLAN 802.1p  Range 0-7. 7 is the highest priority.

| Port Bridge | Port         | VLAN ID | 802.1p |
|-------------|--------------|---------|--------|
|             | Port 1       | 2       | 5      |
|             | Select Ports | 2~4094  | 0~7    |
|             | Port 2       |         |        |
|             | Port 3       |         |        |

Cancel Save

Working Mode Triple Play

**Configuration Fields:**

- **Internet Port**

Select which WAN interface (**WAN1** or **WAN2**) will be configured.

- **802.1Q Tag**

Toggle to enable VLAN tagging on the selected WAN.

Tooltip: Configures whether to enable the 802.1Q tag to mark Internet data or not.

- **WAN VLAN**

Enter the VLAN ID for the WAN interface (**Range: 2-4094**).

- **WAN VLAN 802.1p**  
Set the VLAN priority (**Range: 0-7**, where **7** is the highest).
- **Port Bridge**  
Allows mapping of LAN ports to specific VLANs and priorities.

- **Port** - Select which LAN port (e.g., Port 1, Port 2, or Port 3) to bridge.
- **VLAN ID** - Assign a VLAN ID for the selected port (**Range: 2-4094**).
- **802.1p** - Set traffic priority (**Range: 0-7**, where **7** is the highest).
- **Add** - Add additional port-VLAN entries as needed.
- **Delete (-)** - Remove existing VLAN entries.

#### Example Use Cases:

- Creating separate VLANs for guest and internal networks.
- Mapping different LAN ports to unique VLANs for department-based segmentation.
- Assigning priority values to ensure critical traffic (e.g., VoIP) receives higher bandwidth.

After all configurations are defined, click **Save** to apply changes.

#### Notes:

- Custom mode supports full manual VLAN tagging and bridging per WAN interface.
- Incorrect VLAN or priority settings may disrupt connectivity-use values provided by your network administrator or ISP.

## IGMP

The **IGMP** tab provides multicast optimization for IPTV and streaming environments. It contains two parts: **IGMP Proxy** (handles multicast group membership on the WAN side) and **IGMP Snooping** (limits multicast flooding on the LAN by forwarding only to member ports).

ISP

Working Mode: **IGMP**

**IGMP Proxy**

Enable ☒

\* Internet Port: ☒ WAN1 ☐ WAN2

IGMP Version: Auto

\* Query Interval (secs): 125 Default 125, range 1~1800

**IGMP Snooping**

Enable ☒

Multicast to unicast: ☒

\* Monitoring Port:  Range 1~65535

Internet Port: ☒ WAN1 ☐ WAN2

Cancel Save

**IGMP Proxy:**

- **Enable**  
Turn on IGMP Proxy.  
Tooltip: After enabling, the IGMP proxy will be allowed to access any multicast group.
- **Internet Port**  
Select the WAN interface used for IGMP Proxy: **WAN1** or **WAN2**.
- **IGMP Version**  
Choose the IGMP version used with the ISP network. (Options shown by the UI; select **Auto** if unsure.)
- **Query Interval (secs)**  
Set the interval for sending general IGMP queries. **Default: 125. Range: 1-1800.**  
Tooltip: Set the sending interval of IGMP general group query messages.

Click **Save** to apply Proxy settings.

**IGMP Snooping:**

- **Enable**  
Turn on IGMP Snooping for the LAN.  
Tooltip: After enabling, multicast traffic will be forwarded to ports belonging to the group members. This configuration will apply to all LAN ports.
- **Multicast to unicast**  
Optional conversion to unicast for devices or switches that handle multicast poorly.
- **Monitoring Port**  
Enter the multicast **UDP port** used for monitoring. **Range: 1-65535.**  
Tooltip: Configures the multicast UDP port for monitoring.
- **Internet Port**  
Select which **WAN** is monitored by Snooping: **WAN1** or **WAN2**.  
Tooltip: Set the monitored WAN port.

Click **Save** to apply Snooping settings.

**Notes:**

- Start with **IGMP Version: Auto** and **Query Interval: 125** unless your ISP specifies different values.
- If IPTV set-top boxes still flood the LAN, enable **Multicast to unicast** under Snooping.

**Policy Routes**

Policy Routes allow administrators to steer specific traffic through a defined WAN behavior (for example, load balancing across uplinks or using a backup link). In the updated interface, routing behavior is created in **Policy Pool**, then applied to traffic-matching rules in **Policy Routes** using a **Reference Policy**.

This configuration is accessible via: **Advanced -> Internet Settings -> Policy Routes**.

**Policy Pool**

**Policy Pool** is where you define how traffic should leave the router. Policies created here can be reused across multiple policy route rules (Domain, Client, or VLAN).

Policy Routes

Policy Routes

**Policy Pool**

**Add** [Delete](#)

All Interfaces

| <input type="checkbox"/> | Name    | Mode         | Interfaces | Balancing Strategy | Interface  | Weight | Operations        |
|--------------------------|---------|--------------|------------|--------------------|------------|--------|-------------------|
| <input type="checkbox"/> | Default | Load Balance | 2          | Session-Based      | WAN1 (WAN) | 5      | <a href="#">✎</a> |

Total: 1 [<](#) **1** [>](#) 10 / page [v](#)

*Add Policy Pool*

The **Policy Pool** page lists existing policies and their characteristics (such as mode, number of interfaces, balancing strategy, and weights).

**Policy Routes > Add Policy**

\* Name  1~64 characters

Mode ⓘ

Balancing Strategy ⓘ

\* Interface

| Interface                               | Weight ⓘ                       |                   |
|-----------------------------------------|--------------------------------|-------------------|
| <input type="text" value="WAN1 (WAN)"/> | <input type="text" value="5"/> | <a href="#">-</a> |
| <input type="text" value="WAN2 (WAN)"/> | <input type="text" value="1"/> | <a href="#">-</a> |

[Add](#) [+](#)

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

*Add Policy*

## Add a Policy (Policy Pool)

1. Navigate to **Advanced -> Internet Settings -> Policy Routes -> Policy Pool Tab**.
2. Click **Add**.
3. Configure the policy parameters, then click **Save**.

The following settings determine how the router distributes traffic across the selected interfaces:

### Mode

- **Load Balance:** Traffic is proportionally distributed based on the configured policy weights. It is recommended to allocate weights according to actual WAN bandwidth capacity.
- **Backup:** When the preferred interface fails, traffic switches to the backup interface. Both preferred and backup interfaces can be configured with policy weights to proportionally distribute traffic when active, helping maintain connectivity and availability.

### Balancing Strategy

This setting determines how traffic is distributed across multiple connections:

- **Session-Based:** Traffic is distributed evenly among the links.

- **Source IP Address:** Traffic from the same source IP address is routed through the same interface, reducing potential access issues that can occur when traffic jumps between links.
- **Source & Destination IP Addresses:** Traffic between the same source and destination IP addresses is routed through the same interface, providing consistent routing for specific communication flows.

### Interface and Weight

Policies can include one or more interfaces (typically WAN uplinks). Each interface is assigned a weight to influence the distribution.

**Weight:** Default is **1**. Enter a value from **1-10**, where **10** is the highest weight.

A practical example for Load Balance is assigning a higher weight to the higher-bandwidth WAN (for example, WAN1 weight 5 and WAN2 weight 1) so more sessions prefer the faster link.

### Policy Routes

**Policy Routes** define what traffic matches a routing rule (Domain, Client, or VLAN). Each rule then selects a **Reference Policy** from the Policy Pool to determine how that matched traffic is routed.

*Add Policy Route*

### Add a Policy Route

1. Navigate to **Advanced -> Internet Settings -> Policy Routes -> Policy Routes Tab**.
2. Click **Add**.
3. Enter a **Name** and enable the rule if required.
4. Select the **Rule** type (**Domain**, **Client**, or **VLAN**).
5. Select a **Reference Policy** (Policy Pool entry) to apply.
6. Click **Save**.

The sections below describe each rule type.

### Domain Rule

Use Domain rules to route traffic destined for specific domain names through a chosen Policy Pool entry.

## Policy Routes > Add Policy Route

\* Name  1~64 characters

Enable ☒

Rule ☒ Domain ☐ Client ☐ VLAN

\* Domain  



Add 

\* Reference Policy  

Policy Pool - Load Balancing

Default

 Add

*Policy Route Domain*

In the **Add Policy Route** window:

- Set **Rule** to **Domain**.
- Enter one or more domains (for example, example.com). Use the **Add (+)** control to include multiple domains.
- Under **Reference Policy**, select the required Policy Pool entry (for example, a load-balancing policy or a backup policy).
- Click **Save**.

This ensures that traffic associated with the specified domains follows the WAN behavior defined in the selected Policy Pool policy.

### Client Rule

Client rules route traffic from specific client devices through a selected Policy Pool entry. Clients can be chosen from the connected client list or added manually.

**Client selection note (important):** If the client uses a random MAC address, the MAC value may be inaccurate. For reliable matching, ensure the client device uses a static MAC address (disable random MAC on the client device if needed).

Policy Routes > **Add Policy Route**

\* Name  1~64 characters

Enable ☒

Rule ☐ Domain ☒ **Client** ☐ VLAN

Generation Mode ☒ Select from clients ☐ Add Manually

*i* If the client use random MAC address, the MAC address will be inaccurate. Please disable random MAC address function on client side [\[How to disable?\]](#)

\* Client Name

\* Reference Policy



Cancel

Save

*Policy Route Client Select from clients*

### Select from clients

- Set **Rule** to **Client**.
- Under **Generation Mode**, choose **Select from clients**.
- Select the **Client Name** from the list.
- Select the **Reference Policy** (Policy Pool entry).
- Click **Save**.

**\* Name**  1~64 characters

**Enable** ☒

**Rule** ☐ Domain ☒ Client ☐ VLAN

**Generation Mode** ☐ Select from clients ☒ Add Manually

*ⓘ If the client use random MAC address, the MAC address will be inaccurate. Please disable random MAC address function on client side [\[How to disable?\]](#)*

**\* MAC Address**  





**\* Reference Policy**  

Policy Route Client Add Manually

### Add Manually

- Set **Rule** to **Client**.
- Under **Generation Mode**, choose **Add Manually**.
- Enter the client **MAC Address**. Use **Add (+)** if you need to include multiple MAC addresses.
- Select the **Reference Policy** (Policy Pool entry).
- Click **Save**.

This approach is useful for devices that do not appear in the client list but must follow a specific routing policy.

### VLAN Rule

VLAN rules route traffic associated with a specific VLAN through a selected Policy Pool entry. This is commonly used in segmented networks (for example, separate VLANs for voice, IPTV, or guest access).

Policy Routes > **Add Policy Route**

\* Name  1~64 characters

Enable ☒

Rule ☐ Domain ☐ Client ☒ **VLAN**

\* VLAN  ×

\* Reference Policy

*Policy Route VLAN*

In the **Add Policy Route** window:

- Set **Rule** to **VLAN**.
- Select the target **VLAN** from the dropdown list.
- Select the **Reference Policy** (Policy Pool entry).
- Click **Save**.

This ensures traffic for the selected VLAN follows the WAN behavior defined in the referenced Policy Pool policy.

## Wi-Fi Settings

**GWN7072 note:** The router supports 2.4 GHz, 5 GHz, and 6 GHz Wi-Fi, Wi-Fi 5 compatibility, and Multi-Link Operation (MLO). When MLO is enabled, AES/TKIP encryption is not supported. The 6 GHz band cannot be used with Open security; select a supported secure encryption mode.

### Wi-Fi

The **Wi-Fi** page is where you create and manage wireless networks (SSIDs). From this page, you can enable or disable an SSID, review its band and security settings, edit configuration options, share access via QR code, or delete the SSID.

Wi-Fi admin ▾

| Wi-Fi Name | Enable                              | Band    | Security Mode | WPA Mode | WPA Encryption Type | Captive Portal | Operations |
|------------|-------------------------------------|---------|---------------|----------|---------------------|----------------|------------|
| GWN7072    | <input checked="" type="checkbox"/> | 2.4G&5G | Personal      | WPA2     | AES                 | Disable        |            |

*Wi Fi page*

The SSID list provides a quick overview of each wireless network, including its band, security configuration, captive portal status, connected clients, VLAN association, and traffic statistics. Use the **Enable** toggle to turn an SSID on or off. Under **Operations**, you can edit the SSID settings, share the SSID via QR code, or delete it.

Add or edit a Wi-Fi network

- 1. Navigate to **Advanced -> Wi-Fi Settings -> Wi-Fi**.
- 2. Click **Add** to create a new SSID, or click the **Edit** icon to modify an existing one.
- 3. Configure the required settings, then click **Save**.

The Add/Edit Wi-Fi page includes **Basic Settings** and **Advanced Settings**.

- **Basic Settings**

The **Basic Settings** section defines the SSID identity, radio band selection, and security method. Available fields and behavior depend on the selected **Security Mode**.

Wi-Fi > Edit Wi-Fi

Basic Settings

Wi-Fi

☒

\* Wi-Fi Name

GWN7062M

Band

☐ 2.4G&5G

☒ 2.4G

☐ 5G

Security Mode

☐ Open

☐ Personal

☒ Enterprise

WPA Mode

WPA2

WPA Encryption Type

AES

RADIUS Server

\* RADIUS Authentication Server Address

\* RADIUS Authentication Server Port

1812

\* RADIUS Authentication Server Secret

Secondary RADIUS Authentication Server

☐

AddEdit Wi Fi Basic Settings

| Field         | Description                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------------------|
| Wi-Fi         | Enables or disables this SSID.                                                                                     |
| Wi-Fi Name    | SSID name (1-32 characters). This is what clients see when scanning for networks (unless Hidden Wi-Fi is enabled). |
| Band          | Select the radio band for this SSID: 2.4G&5G, 2.4G, or 5G.                                                         |
| Security Mode | Select Open, Personal, or Enterprise. This selection determines which authentication options appear.               |

|                                 |                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| WPA Mode                        | Available when using Personal or Enterprise security. Options: WPA/WPA2, WPA2, WPA2/WPA3, WPA3. (check the table below for more details)            |
| WPA Encryption Type             | Select the encryption algorithm used by the SSID. Options: AES, AES/TKIP, GCMP-128, GCMP-256 and CCMP-256. (check the table below for more details) |
| Password                        | Available only when Security Mode = Personal. Password must be 8-63 ASCII characters or 8-64 hex characters.                                        |
| RADIUS Server (Enterprise only) | When Security Mode = Enterprise, RADIUS fields become available (for example, server address, port, and shared secret).                             |

#### Add/Edit Wi-Fi - Basic Settings

#### Wi-Fi Security Mode & WPA options:

| Security Mode | WPA Mode  | WPA Encryption Mode          |
|---------------|-----------|------------------------------|
| Open          | x         | x                            |
| Personal      | WPA/WPA2  | AES (Default); AES/TKIP      |
|               | WPA2      | AES (Default); AES/TKIP      |
|               | WPA2/WPA3 | AES (Default)                |
|               | WPA3      | AES (Default)                |
| Enterprise    | WPA/WPA2  | AES (Default); AES/TKIP      |
|               | WPA2      | AES (Default); AES/TKIP      |
|               | WPA2/WPA3 | AES (Default); GCMP-128      |
|               | WPA3      | AES (Default); GCMP-128      |
|               | WPA3-192  | GCMP-256 (Default); CCMP-256 |

#### Wi-Fi Security Mode & WPA options

#### - Advanced Settings

The **Advanced Settings** section controls SSID visibility, VLAN mapping, captive portal assignment, scheduling, and how "professional" Wi-Fi behavior is applied to the SSID.

Medium

### AddEdit Wi Fi Advanced Settings

### Add/Edit Wi-Fi - Advanced Settings

To share an SSID quickly with guests, use the QR code function:

- Wi-Fi

Add

| Wi-Fi Name | Enable                              | Clients Count | Total Traffic | Operations                                                                    |
|------------|-------------------------------------|---------------|---------------|-------------------------------------------------------------------------------|
| GWN7072    | <input checked="" type="checkbox"/> | 1             | 392.7MB       | <div><div><div></div></div><div><div></div></div><div><div></div></div></div> |

Scan to connect to Wi-Fi

Wi-Fi Name

GWN7072

Wi-Fi Password

Save QR code

## Guest Wi-Fi

To access this page, navigate to: **Advanced -> Wi-Fi Settings -> Guest Wi-Fi**

Guest Wi-Fi

Guest Wi-Fi

\* Wi-Fi Name

GWN\_61AA8E\_Guest

Band

2.4G&5G

2.4G

5G

Security Mode

Open

Personal

Enterprise

WPA Mode

WPA2

WPA Encryption Type

AES

\* Password

••••••••

Medium

Advanced Settings

Associated VLAN

\* VLAN

Guests VLAN

Captive Portal

Policy for Guests

Professional Settings

General

Custom

When 'Custom' is selected, custom rules must be reset.

Settings

Configure the Guest Wi-Fi SSID using the options below, then click **Save**.

| Field                                  | Description                                                                                                                                         |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Guest Wi-Fi                            | Enables or disables the guest SSID.                                                                                                                 |
| Wi-Fi Name                             | SSID name guests will see (1-32 characters).                                                                                                        |
| Band                                   | Select where the SSID is broadcast: 2.4G&5G, 2.4G, or 5G.                                                                                           |
| Security Mode                          | Select the security type: Open, Personal, or Enterprise.                                                                                            |
| WPA Mode                               | Available when using Personal or Enterprise security. Options: WPA/WPA2, WPA2, WPA2/WPA3, WPA3. (check the table below for more details)            |
| WPA Encryption Type                    | Select the encryption algorithm used by the SSID. Options: AES, AES/TKIP, GCMP-128, GCMP-256 and CCMP-256. (check the table below for more details) |
| Password                               | Pre-shared key for the SSID when using Personal security.                                                                                           |
| RADIUS Authentication Server Address   | Primary RADIUS server address for Enterprise security.                                                                                              |
| RADIUS Authentication Server Port      | RADIUS authentication port for Enterprise security.                                                                                                 |
| RADIUS Authentication Server Secret    | Shared secret for RADIUS authentication (Enterprise security).                                                                                      |
| Secondary RADIUS Authentication Server | Enable and configure a secondary/backup RADIUS server (Enterprise security).                                                                        |
| Advanced Settings                      |                                                                                                                                                     |
| Associated VLAN                        | Bind the guest SSID to a specific VLAN for traffic segmentation.                                                                                    |
| VLAN                                   | Select the VLAN used by the guest SSID when VLAN association is enabled.                                                                            |
| Captive Portal                         | Apply a captive portal policy to guest clients (optional).                                                                                          |
| Professional Settings                  | Use General defaults or Custom settings (Custom may require additional configuration under General Settings).                                       |

### Wi-Fi Security Mode & WPA options:

| Security Mode | WPA Mode  | WPA Encryption Mode          |
|---------------|-----------|------------------------------|
| Open          | x         | x                            |
| Personal      | WPA/WPA2  | AES (Default); AES/TKIP      |
|               | WPA2      | AES (Default); AES/TKIP      |
|               | WPA2/WPA3 | AES (Default)                |
|               | WPA3      | AES (Default)                |
| Enterprise    | WPA/WPA2  | AES (Default); AES/TKIP      |
|               | WPA2      | AES (Default); AES/TKIP      |
|               | WPA2/WPA3 | AES (Default); GCMP-128      |
|               | WPA3      | AES (Default); GCMP-128      |
|               | WPA3-192  | GCMP-256 (Default); CCMP-256 |

Wi-Fi General Settings

Wi-Fi General Settings provides device-wide wireless tuning for the 2.4 GHz, 5 GHz, and 6 GHz radios. Use this section to control channel behavior, channel width, transmit power, and roaming-related features. It's the place you go when you care about stability, roaming quality, and RF performance.

To access this page, navigate to: **Advanced -> Wi-Fi Settings -> General Settings.**

Common Settings

The **Common Settings** tab contains core RF configuration for all three bands (2.4G, 5G, and 6G), including how channels are selected and how aggressively the radios transmit.

General Settings

Common Settings

Professional Settings

Wi-Fi5 Compatible

Turning this off will optimize Wi-Fi speed, but some devices may not be able to connect.

| Configuration Item | 2.4G         | 5G    |
|--------------------|--------------|-------|
| Channel Width      | 20MHz        | 80MHz |
| Channel Switch     | Auto         | Fixed |
| *Channel           | 1 × + 12 ... | 40    |
| Radio Power        | High         | High  |

Dynamic Optimization

Cancel

Save

Channel Quality

One-Click Optimization

Channel (2.4G)

3

4

12

13

Channel (5G)

48

40

44

36

Common Settings

| Field             | Description                                                                                                                                                                                     |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wi-Fi5 Compatible | Enable to improve compatibility with Wi-Fi 5 (802.11ac) clients. Disabling may improve Wi-Fi performance, but some devices may not be able to connect.                                          |
| Channel Width     | Select the channel bandwidth for each band (2.4G and 5G). Wider bandwidth may increase throughput but can be more sensitive to interference.                                                    |
| Channel Switch    | Select how the device chooses the operating channel for each band. Auto: lets the device automatically pick a channel from the channel list you specifyFixed: uses a manually selected channel. |

|                        |                                                                                                                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Channel                | Specify the channel list/target channel for each band. When Channel Switch is set to Auto, select one or more allowed channels and the device will automatically choose among them. When set to Fixed, select a specific channel to use. (2.4G supports multi-select; 5G is selected from a drop-down list.) |
| Radio Power            | Set the transmit power level for each band (High/Medium/Low). Higher power increases coverage but may increase interference.                                                                                                                                                                                 |
| Dynamic Optimization   | Enable to allow the device to dynamically optimize wireless performance based on the environment.                                                                                                                                                                                                            |
| Channel Quality        | Displays channel quality information for 2.4G and 5G to help identify less congested channels.                                                                                                                                                                                                               |
| One-Click Optimization | Automatically optimizes channel-related settings based on current channel quality to improve wireless performance.                                                                                                                                                                                           |

Common Settings

### Professional Settings

The **Professional Settings** tab controls advanced roaming and client-handling features. These settings are especially relevant in deployments with multiple APs and roaming clients (voice devices, mobile terminals, etc.).

General Settings

Common Settings

Professional Settings

Voice Enterprise ⓘ

802.11r ⓘ

802.11k ⓘ

802.11v ⓘ

\* Client Inactivity Timeout (sec) ⓘ

300

Cancel

Save

Professional Settings

| Field            | Description                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Voice Enterprise | Optimizes Wi-Fi parameters for latency-sensitive voice traffic. When enabled, 802.11r/k/v are forced ON and locked. Not effective for Open encryption. |
| 802.11r          | Fast roaming standard that reduces authentication time during handoff for seamless roaming. Not effective for Open encryption.                         |
| 802.11k          | Provides roaming assistance information to clients to improve access-point selection.                                                                  |

|                                 |                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------|
| 802.11v                         | Enables network-assisted client steering to improve roaming behavior and overall performance. |
| Client Inactivity Timeout (sec) | Disconnects clients that generate no traffic within the configured time duration.             |

#### Professional Settings

## Mesh

**GWN7072 note:** The Add Mesh wizard supports GWN7072 as a mesh node model.

Mesh lets you extend coverage by adding compatible Grandstream devices as Mesh nodes to a primary router. A node can be another router (**for example, GWN7062E(ET) or GWN7072**) or a supported access point (**for example, GWN7660EM**). The Add wizard starts by asking for the node model because the preparation and pairing guidance depend on that selection.

### Adding a Mesh node

Use the Mesh page to view existing nodes and start the Add wizard.

### Mesh

*Information icon* You can move the added router to areas needing better Wi-Fi;  
For improved stability, use wired connection whenever possible and consider wireless mesh as the final tier.

Add

Connected

GWN7062ET\_41F4

Device Model

GWN7062ET

MAC

EC:74:D7

IP

192.168.80.122

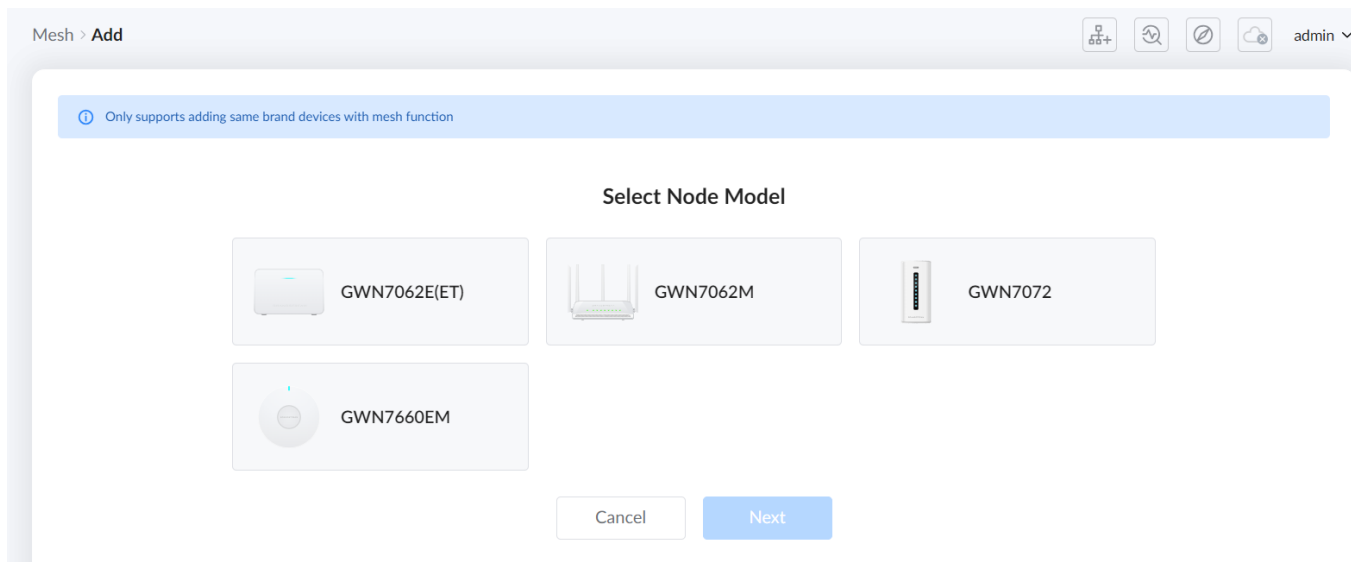
LED Indicator

• On

#### Add a mesh

Open the Mesh page by going to **Advanced -> Mesh**, then click **Add** to start the wizard.

On the **Select Node Model** screen, choose the model you are adding (**router or access point**), then click **Next**. This step matters because the next two pages (Preparations and Networking Method) are tailored to the model you selected.

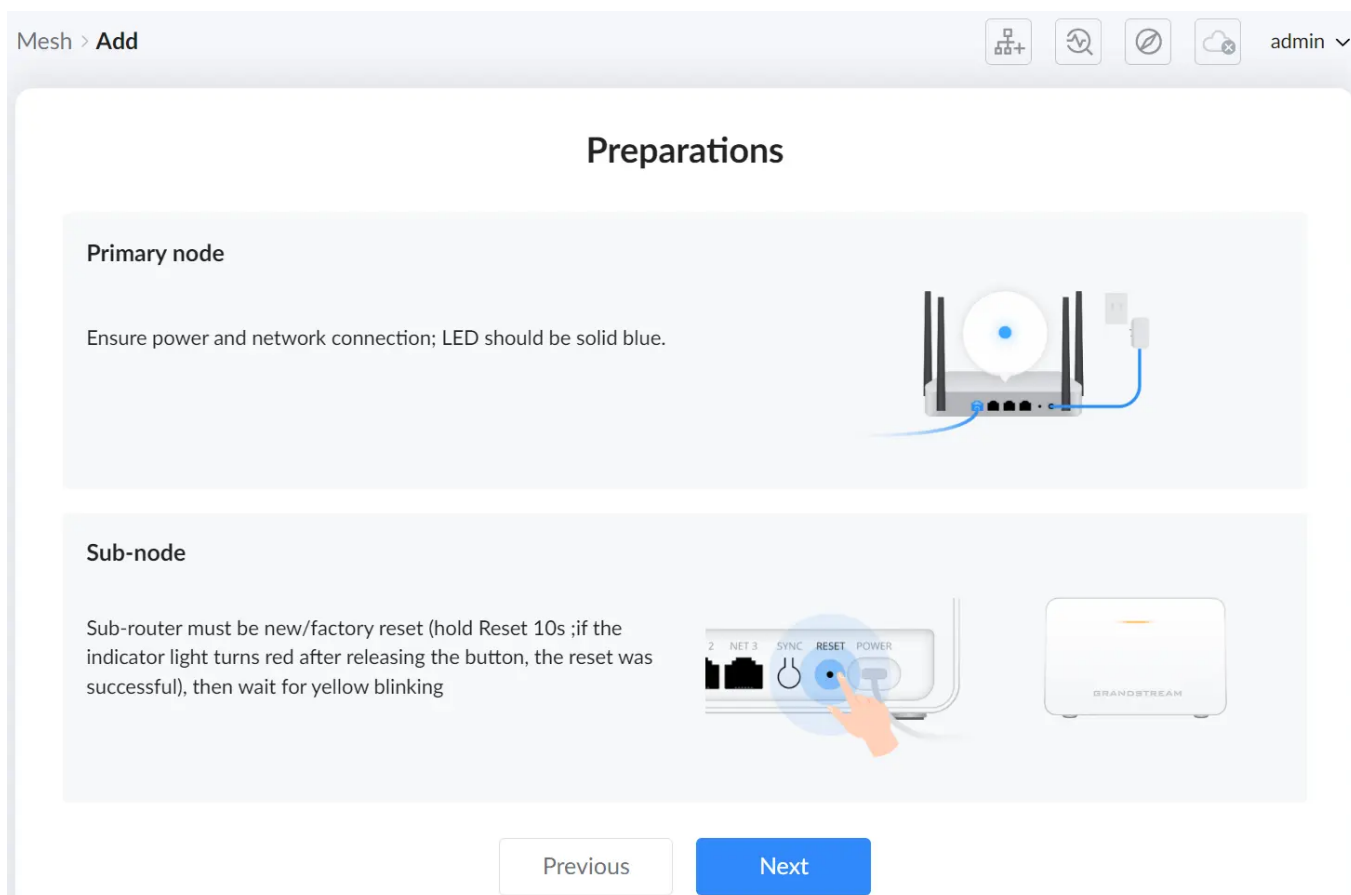


Select Node Model

On the **Preparations** page, the wizard shows requirements for both the primary router and the node device. For the **primary router**, ensure it is powered on, connected to the network, and ready (the UI typically indicates this with a **solid blue LED**). For the **node device**, the steps are model-specific. Follow the on-screen instructions for the selected model, including the required button actions and LED indications, until the wizard indicates the device is ready. Then click **Preparation Complete**.

Follow the model-specific preparation steps shown by the wizard.

#### - Preparations - GWN7062E(ET) & GWN7072



Preparations GWN7062E GWN7062ET GWN7072

#### - Preparations - GWN7660EM



## Preparations

### Primary node

Ensure power and network connection; LED should be solid blue.



### Sub-node

#### New Sub-node

After powering on, wait for the indicator to turn solid pink

#### Previously Configured Sub-node

Ensure it is not managed by other platforms. Factory reset (press and hold the RESET button for 7s after power-on; the indicator turns red once the reset is successful), and wait for the indicator to turn solid pink.

[Previous](#)[Next](#)

*Preparations GWN7660EM*

On the **Networking Method** page, select how the node will connect during setup. The wizard marks the recommended option and provides model-specific diagrams. Follow the method you choose exactly as shown on-screen, then click **Start adding** to begin discovery.

Choose the networking method shown by the wizard, then start discovery.

#### - **Networking Method - GWN7062E(ET) & GWN7072**

Mesh > Add

5G+
Signal
Wi-Fi
Cloud
admin

### Networking Method

#### Wired networking Recommend

1.Connect the sub-node to the LAN port of the primary node using an ethernet cable.



Sub-node Primary node

2.Double-click the SYNC button on the sub-node to be added. After about one minute, the indicator light will turn solid pink.



#### Wireless networking

Place the sub-node within 1 meter of the primary node, with no Ethernet cable connected. Ensure the LED is blinking yellow.



Sub-node Primary node

Previous
Start adding

Networking Method GWN7062E GWN7062ET GWN7072

## - Networking Method - GWN7660EM

Mesh > Add

5G+
Signal
Wi-Fi
Cloud
admin

### Networking Method

#### Wired networking Recommend

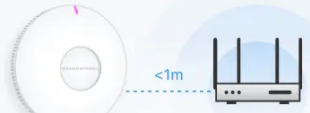
After connecting the sub-node to the primary node's LAN port via an Ethernet cable, confirm that the sub-node indicator is solid pink.



Sub-node Primary node

#### Wireless networking

Place the sub-node within 1 meter of the primary node without any Ethernet cable connection. Ensure the LED is solid pink.

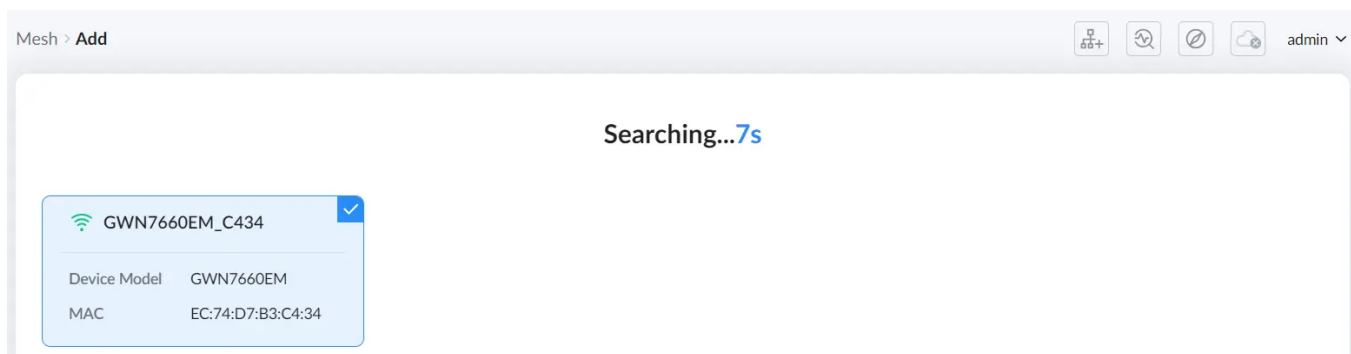


Sub-node Primary node

Previous
Start adding

Networking Method GWN7660EM

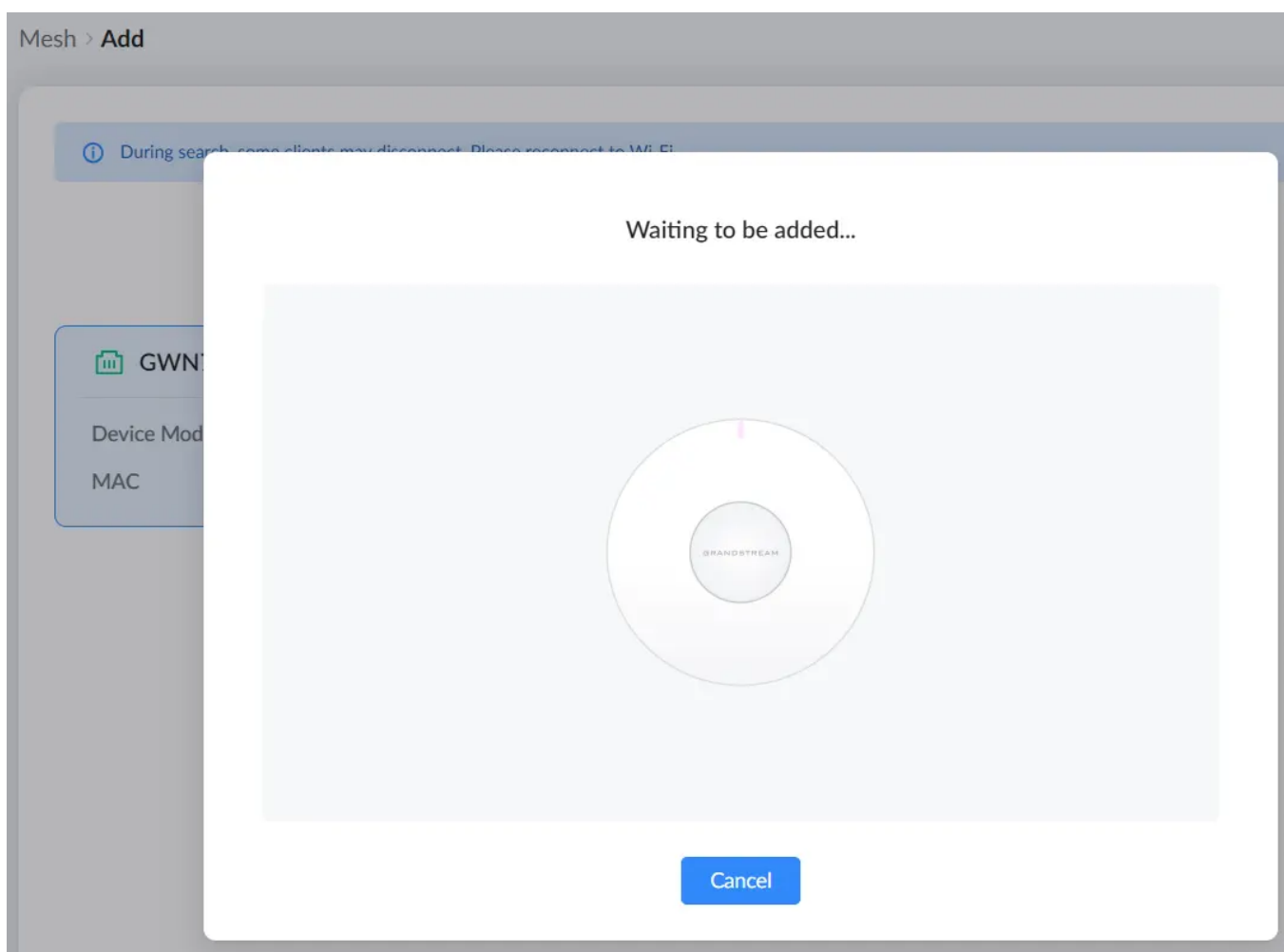
The wizard then searches and lists discovered devices.



Searching

When a device appears, select it from the list. The entry shows identifying information such as device model and MAC address.

If the wizard prompts for a final action on the node (for example, pressing the SYNC button), complete the action as instructed on-screen to finish pairing. If the method is wired, clicking the SYNC button is not necessary.



Waiting to be added

After pairing completes, you return to the Mesh page where the node appears with a **Connected** status and device details such as model, MAC address, IP address, and LED indicator state.

## Mesh

 You can move the added router to areas needing better Wi-Fi;  
For improved stability, use wired connection whenever possible and consider wireless mesh as the final tier.

Add

Connected

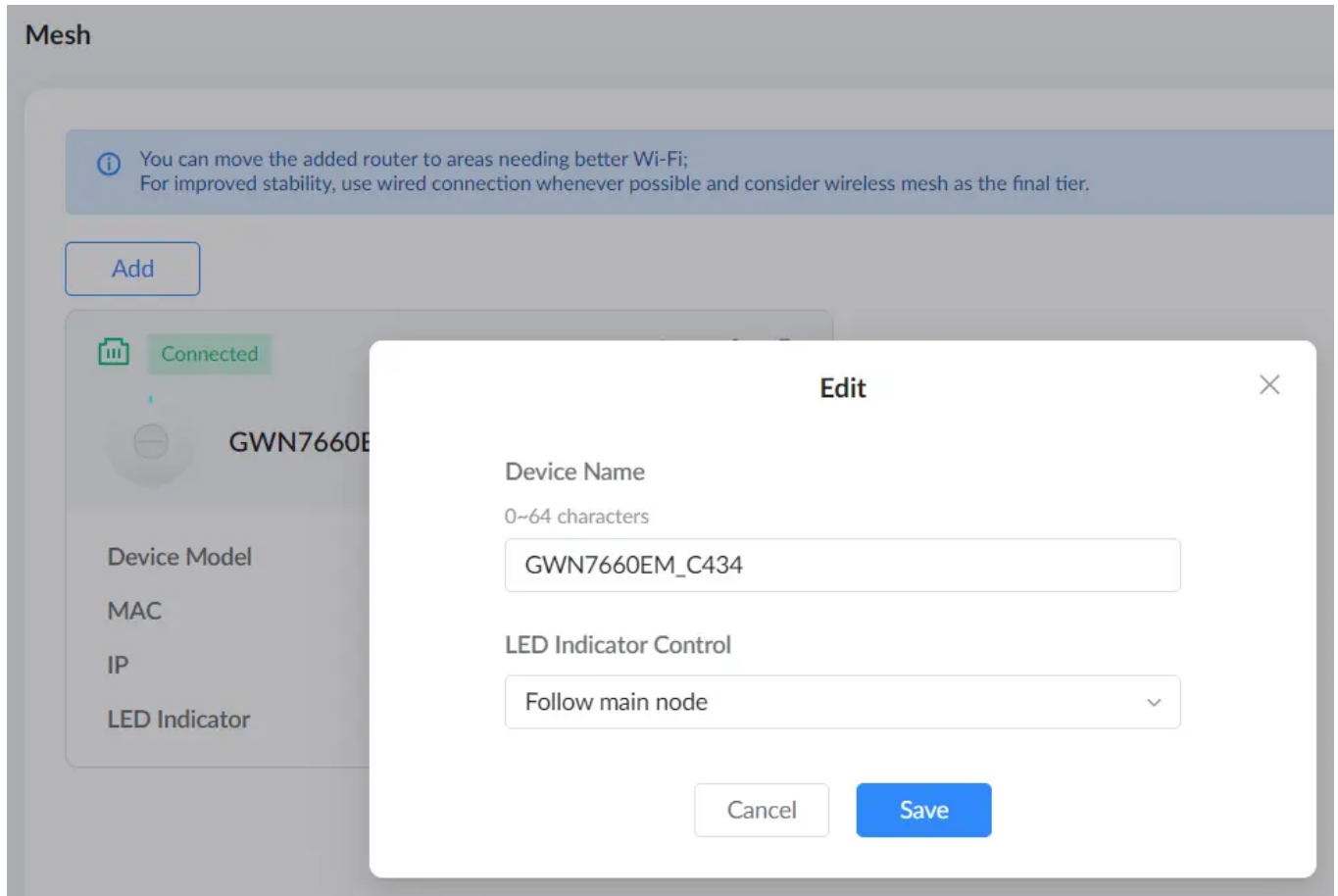
**GWN7660EM\_C434**

|               |                   |
|---------------|-------------------|
| Device Model  | GWN7660EM         |
| MAC           | EC:74:D7:82:2A:38 |
| IP            | 192.168.80.152    |
| LED Indicator | ● On              |

*After the device is connected*

### Managing a Mesh node

Use the node card actions to manage a joined device.



*Managing a Mesh node*

Each connected node card provides quick actions such as rebooting the node and opening the edit dialog. In the **Edit** dialog, you can rename the device and adjust **LED Indicator Control** (for example, setting it to follow the main node), then click **Save** to apply your changes.

## Clients

The **Clients** page on the router provides an overview of all connected devices, including both wired and wireless clients. This section allows users to monitor connected clients, view real-time traffic statistics, and manage client access. Users can rename devices, assign static IPs, analyze traffic statistics, and block unwanted clients.

### Accessing the Clients Page

1. Navigate to **Advanced -> Clients** in the left sidebar.
2. The Clients page will display a list of all connected devices, including:
  - Device Name
  - IP Address (IPv4/IPv6)
  - Connection Type (2.4G, 5G, 6G, MLO, or Wired)
  - Real-Time Data Rate
  - Total Data Usage
  - Current Traffic
  - Available operations for each client

Clients admin

All Status All Connection Types X Q Name / MAC / IP Address

| Name                                                                                                                    | IP Address                    | Real-time Rate   | Total  | Current Traffic        | Connect Time | Operations                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|--------|------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Ain<br>C2:96:0E:C8:D4:F3              | IPv4:192.168.80.234<br>IPv6:- | ↑ 0bps<br>↓ 0bps | 3.59MB | ↑ 290.13KB<br>↓ 3.31MB | -            |     |
|  Ain<br>06:DE:36:67:D6:8D              | IPv4:192.168.80.64<br>IPv6:-  | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           | -            |     |
|  Ain<br>D6:6F:91:55:1C:0B              | IPv4:192.168.80.182<br>IPv6:- | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           | -            |     |
|  Grandstream_CS1C<br>C0:74:AD:B7:C5:1C | IPv4:-<br>IPv6:-              | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           | -            |                                                                                        |
|  Orange-ORG2135<br>00:0B:82:8A:A6:74   | IPv4:192.168.80.231<br>IPv6:- | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           | -            |                                                                                        |

Total: 5 < 1 > 10 / page

Clients page

## Modifying a Client Name

1. Click on the **Edit (pencil) icon** next to the client name.
2. Enter a new name in the pop-up window.
3. Click **Save** to apply the changes.

Clients admin

All Status All Connection Types X Q Name / MAC / IP Address

| Name                                                                                                                      | IP Address                    | Real-time Rate   | Total  | Current Traffic        | Operations                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|--------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Ain<br>C2:96:0E:C8:D4:F3              | IPv4:192.168.80.234<br>IPv6:- | ↑ 0bps<br>↓ 0bps | 3.59MB | ↑ 290.13KB<br>↓ 3.31MB |     |
|  Ain<br>06:DE:36:67:D6:8D              | IPv4:192.168.80.64<br>IPv6:-  | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           |     |
|  Ain<br>D6:6F:91:55:1C:0B              | IPv4:-<br>IPv6:-              | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           |     |
|  Grandstream_CS1C<br>C0:74:AD:B7:C5:1C | IPv4:-<br>IPv6:-              | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           |                                                                                          |
|  Orange-ORG2135<br>00:0B:82:8A:A6:74   | IPv4:192.168.80.231<br>IPv6:- | ↑ 0bps<br>↓ 0bps | 0B     | ↑ 0B<br>↓ 0B           |                                                                                          |

**Edit Client**

Client Name

1~64 characters

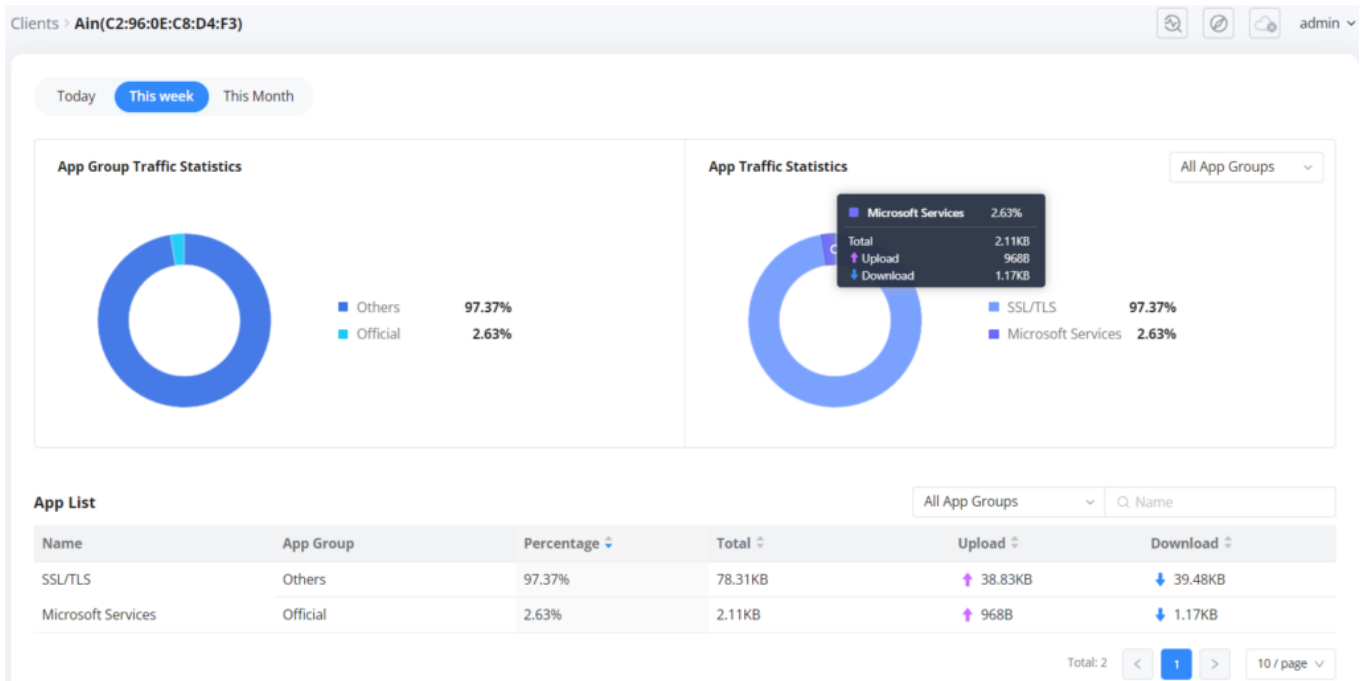
Ain

Cancel Save

Clients Edit Name

## Viewing Client Traffic Details

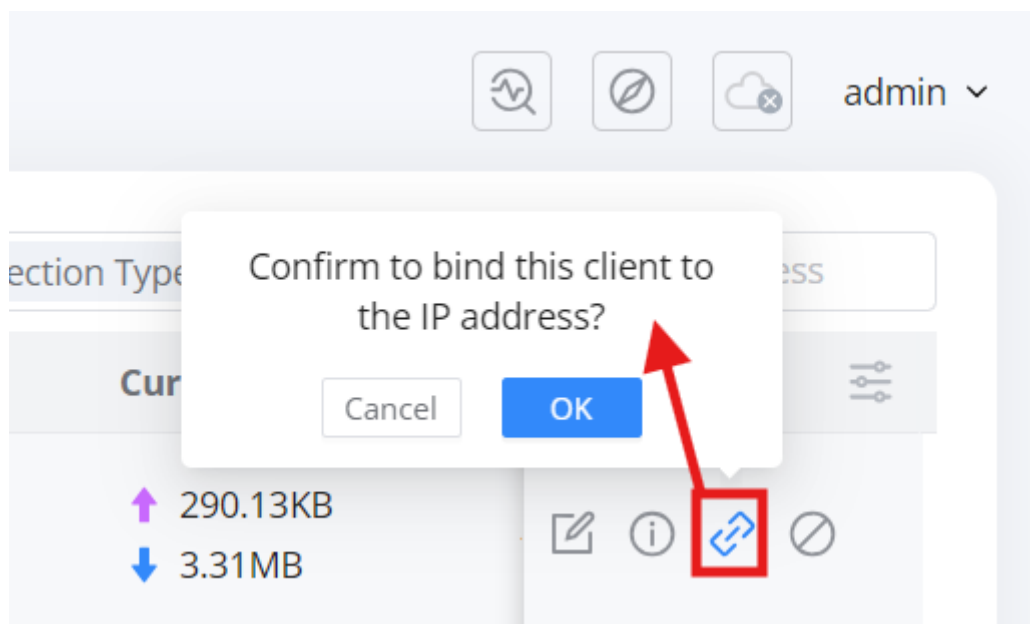
1. Click on the **Exclamation mark icon** next to a client entry.
2. This opens a **Client Traffic Overview** page with:
  - Traffic statistics by app group
  - Data usage trends over time (Today, This Week, or This Month)
  - Breakdown of applications consuming network resources



Clients View details

## Binding a Static IP to a Client

1. Click on the **Link (chain) icon** next to the client.
2. A confirmation prompt will appear: "Confirm to bind this client to the IP address?"
3. Click **OK** to assign a static IP to the client.

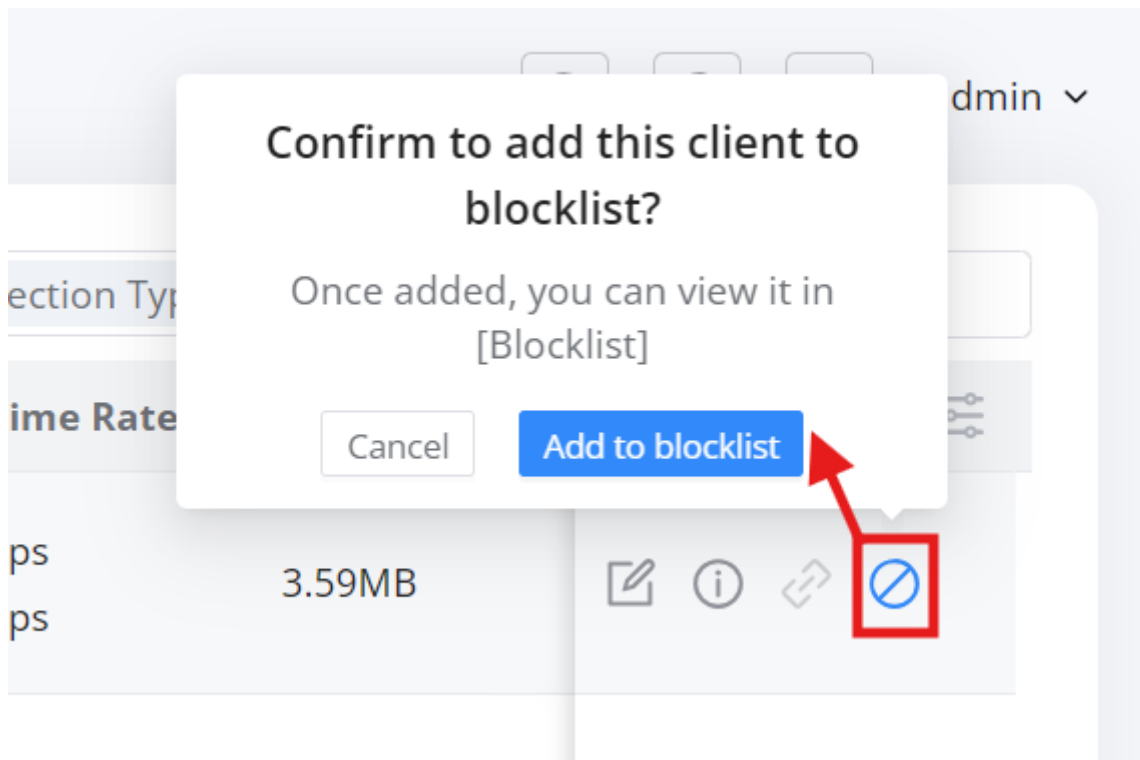


Clients set a static IP address for the client

## Blocking a Wireless Client

1. Click on the **Block (circle with a slash) icon** next to the client.
2. A confirmation prompt will appear: "Confirm to add this client to the blacklist?"
3. Click **Add to blacklist** to prevent the device from reconnecting to the network.

- **Note:** Blocking is only effective for **wireless clients**.



*Clients Add Client to Blocklist*

### Disabling Client Random MAC Address

Many modern operating systems use **random MAC addresses** as a privacy feature. However, for certain router functions such as **Parental Control, Address Binding, Policy Routes, and Blocklist**, a **static MAC address** is required.

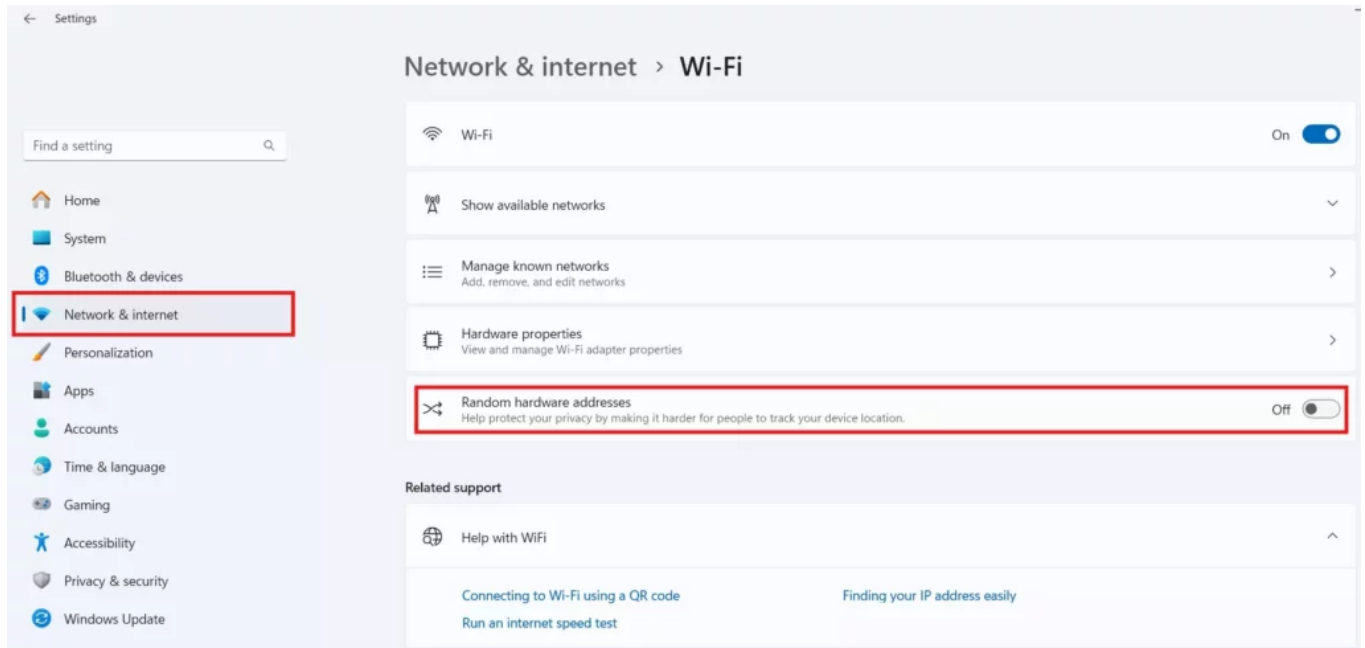
To ensure proper operation, users should **disable random MAC addresses** for their specific Wi-Fi network. Below is a general method to do so, followed by examples for **Windows(R), iOS(R), and Android(R)**.

#### General Steps to Disable Random MAC Address:

1. **Navigate to Wi-Fi settings** on your device.
2. **Locate the network** you are connected to.
3. **Open network properties** or advanced settings.
4. Find the **MAC Address Type / Privacy Settings** option.
5. Select **Use Device MAC / Phone MAC / Fixed MAC** instead of **Randomized MAC**.
6. Save and reconnect to the network.

#### - **Windows(R) (Example: Windows(R) 10/11)**

1. **Go to** Settings -> Network & Internet -> Wi-Fi.
2. Click on **Manage known networks**.
3. Select your Wi-Fi network and click **Properties**.
4. Scroll down to **Random hardware addresses**.
5. Toggle the option **Off**.



*Disable Random MAC Address Windows(R) Example Windows(R) 1011*

- **iOS(R) (Example: iOS(R) 14 and later)**

1. **Open Settings -> Wi-Fi.**
2. Tap the (i) **information icon** next to your Wi-Fi network.
3. Tap **Private Wi-Fi Address.**
4. Select **Off.**

[Back](#)

## Private Wi-Fi Address

Off



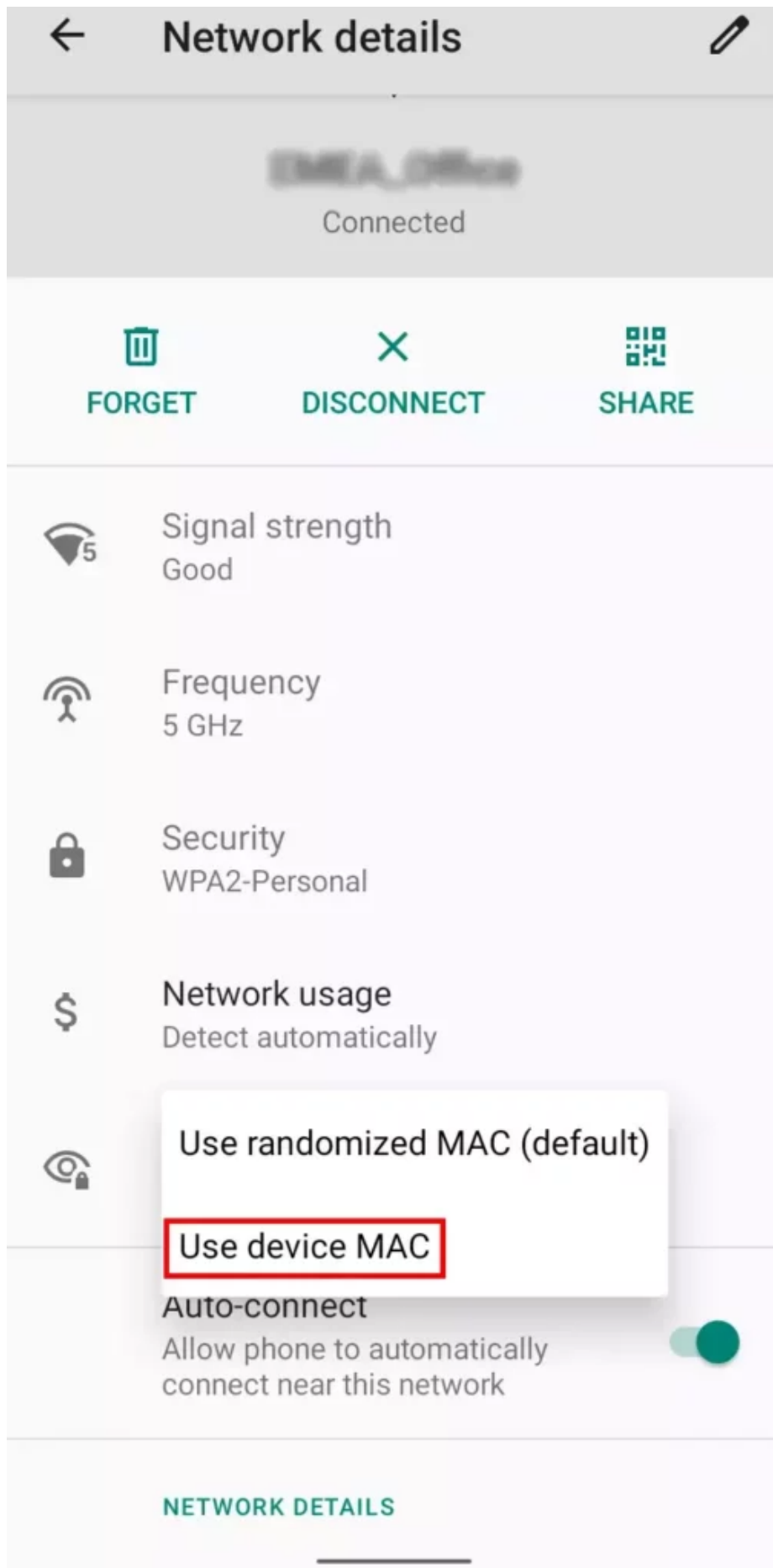
Fixed

Rotating

- **Android(R) (Examples: Stock Android, Samsung(R), Xiaomi)**

**Stock Android:**

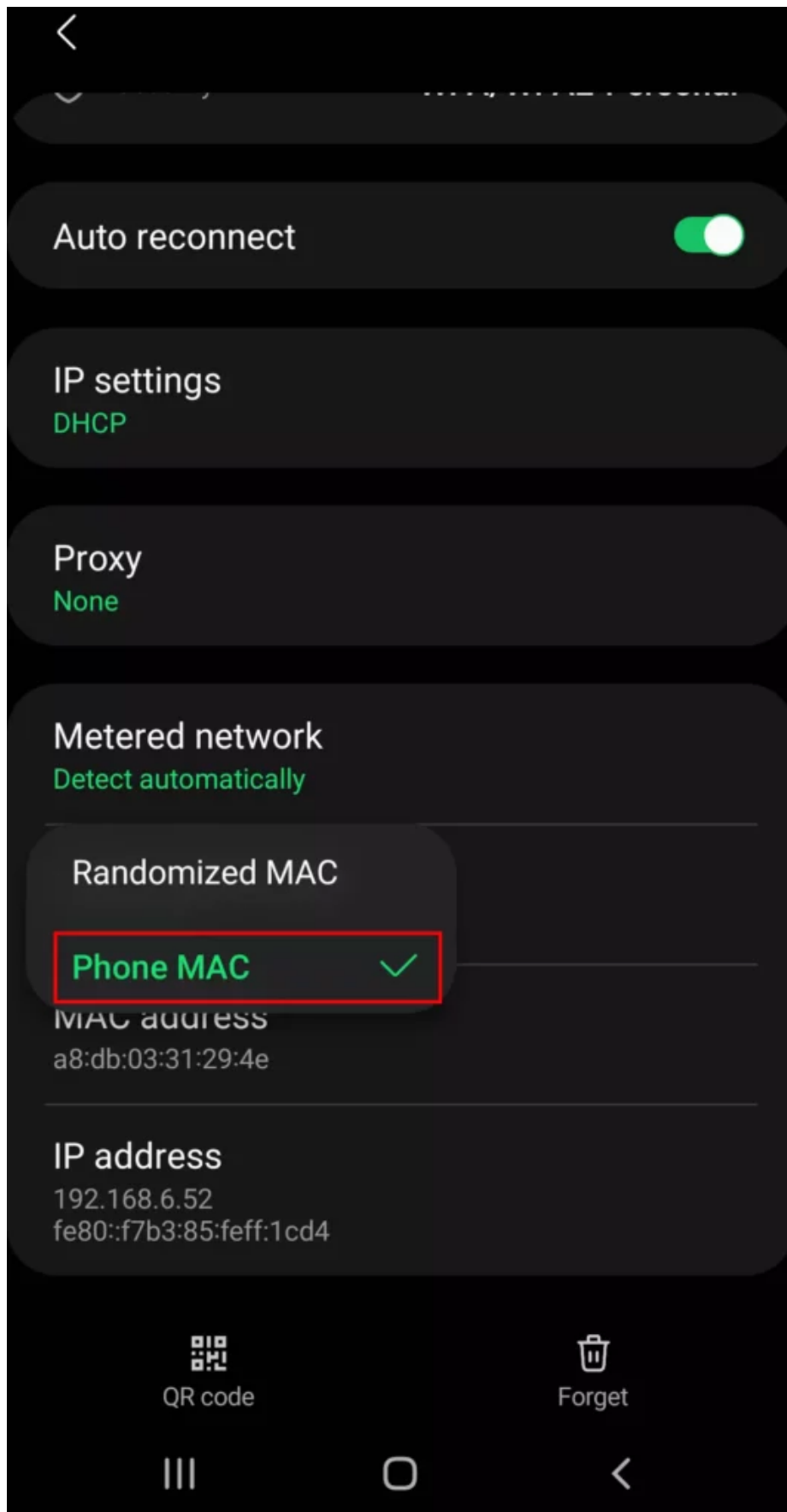
1. **Go to** Settings -> Network & Internet -> Wi-Fi.
2. Tap on your **connected network**.
3. Tap Privacy or MAC Address Type.
4. Select **Use device MAC** instead of Use randomized MAC.



*Disable Random MAC Address Stock Android*

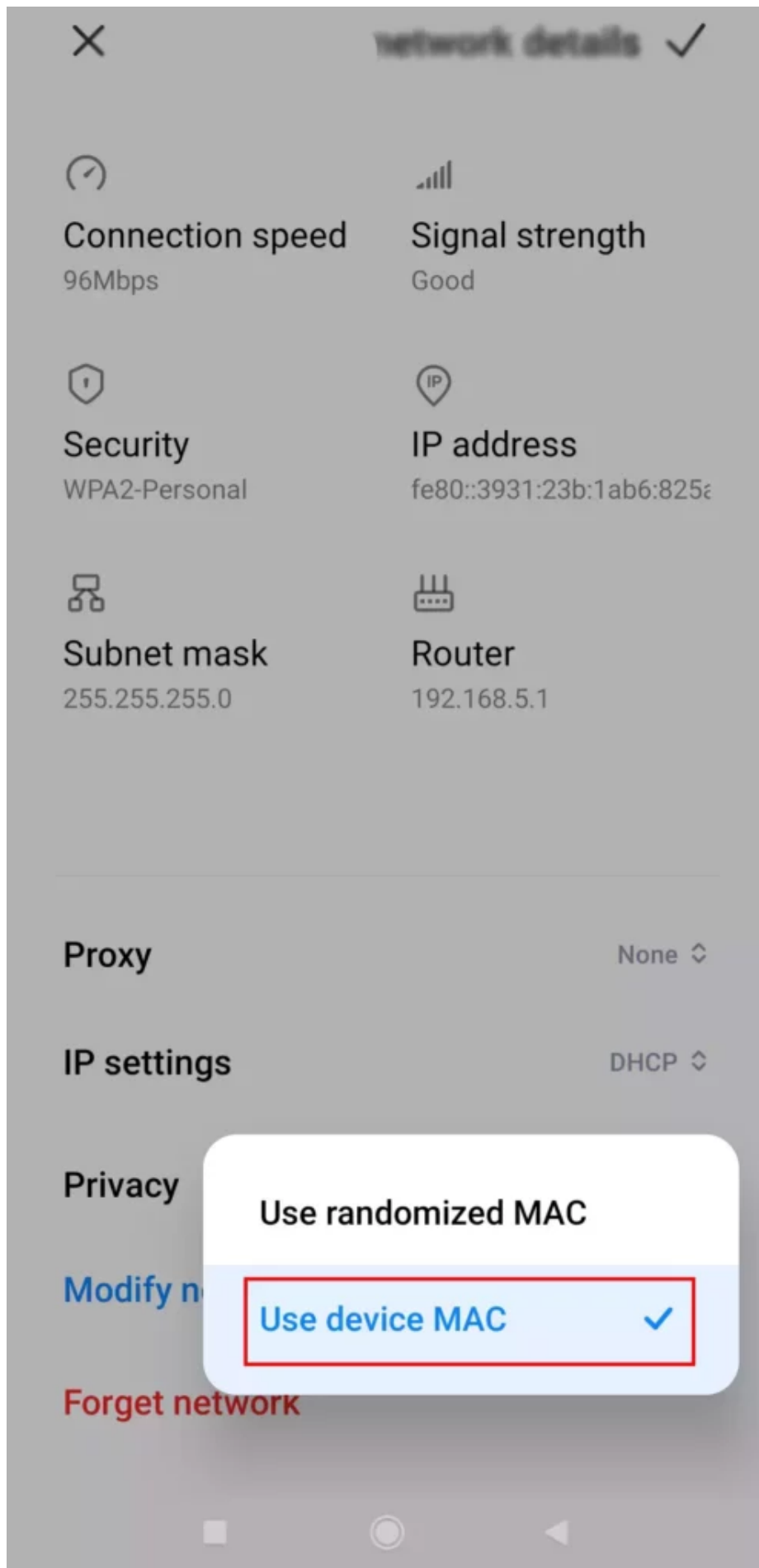
**Samsung(R) Devices:**

1. Go to Settings -> Connections -> Wi-Fi.
2. Tap on your **connected network**.
3. Scroll to MAC Address Type.
4. Select **Phone MAC** instead of Randomized MAC.



**Xiaomi Devices:**

1. **Go to** Settings -> Wi-Fi.
2. Tap on your **connected network**.
3. Scroll down to Privacy.
4. Select **Use device MAC** instead of Use randomized MAC.

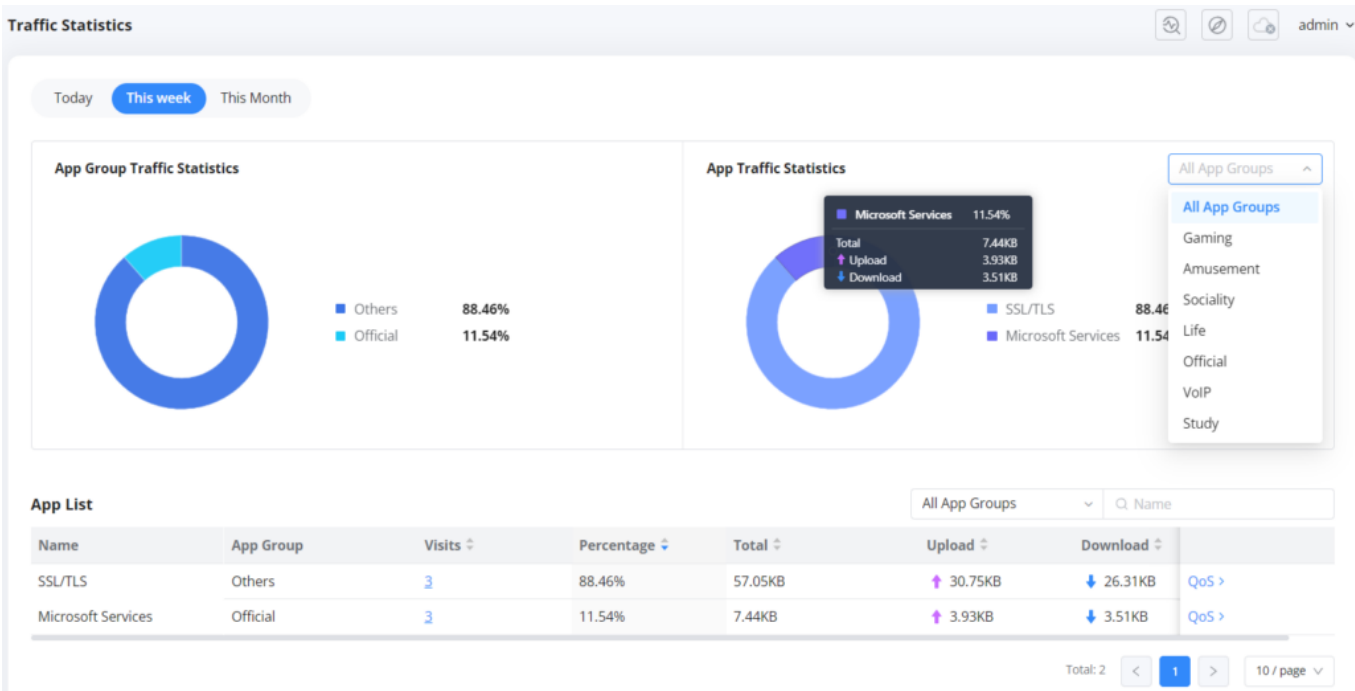


# Traffic Management

**GWN7072 note:** QoS displays and applies upstream and downstream bandwidth for WAN1 and WAN2.

## Traffic Statistics

The **Traffic Statistics** page on the router provides detailed insights into network traffic usage. This section helps users monitor bandwidth consumption by different applications and categorize traffic usage over time. Users can filter traffic by application groups, review real-time data usage, and set QoS rules based on traffic patterns.



Traffic Statistics page

### Accessing the Traffic Statistics Page:

1. Navigate to **Advanced -> Traffic Management -> Traffic Statistics** in the left sidebar.
2. The page displays two main charts:
  - **App Group Traffic Statistics:** A pie chart showing traffic distribution across different application categories.
  - **App Traffic Statistics:** A breakdown of specific applications contributing to network usage.

### Filtering Traffic Data:

- Users can filter traffic data based on **time periods**:
  - **Today**
  - **This Week**
  - **This Month**
- The right-side drop-down menu allows filtering by **App Groups**, including:
  - Gaming
  - Amusement

- Sociality
- Life
- Official
- VoIP
- Study

#### Viewing Application Traffic Details:

- Hovering over the **App Traffic Statistics** chart reveals detailed upload and download statistics for each application.
- The **App List** table provides:
  - Application Name
  - Traffic Category (App Group)
  - Number of Visits
  - Percentage of Total Traffic
  - Total Data Usage (Upload & Download)

#### Accessing QoS Settings:

- Each application entry includes a **QoS** link that allows users to configure Quality of Service rules for better traffic management.

### QoS

The **QoS (Quality of Service) feature** on the router enables users to optimize and control network traffic based on priority settings. It allows for the allocation of bandwidth to specific applications, clients, or traffic types, ensuring better performance for critical services like gaming, VoIP, and streaming. Users can configure QoS rules based on traffic type, application, or device priority.

#### Accessing the QoS Settings:

- Navigate to **Advanced -> Traffic Management -> QoS** to access the QoS settings.
- The QoS page consists of three main tabs:
  - **Basic Settings** - Enables QoS and sets bandwidth limits.
  - **APP QoS** - Allows setting priority levels for application categories.
  - **QoS Rules** - Defines custom rules for prioritizing specific clients, applications, or domains

#### Enabling QoS and Setting Bandwidth (Basic Settings):

- **Enable QoS:** Toggle the switch to activate QoS.
- **Set Maximum Bandwidth:**
  - Users can define upload and download speed limits for WAN1 and WAN2 connections.
- **Configure Priority Settings:**
  - Assign priority levels (0 to 7), minimum bandwidth, and rewrite **DSCP (Differentiated Services Code Point)** values to optimize traffic flow.

**Important Note:** If bandwidth settings are not configured properly, QoS will not function as expected.

## QoS

Basic Settings

APP QoS

QoS Rules

### QoS function

Enable ☒

### Bandwidth Settings

ⓘ If the bandwidth is not set properly, QoS will not work normally

| WAN  | Maximum Upload Bandwidth            |        | Maximum Download Bandwidth          |        |
|------|-------------------------------------|--------|-------------------------------------|--------|
| WAN1 | <input type="text" value="200"/>    | Mbps ▾ | <input type="text" value="200"/>    | Mbps ▾ |
| WAN2 | <input type="text" value="1-1024"/> | Mbps ▾ | <input type="text" value="1-1024"/> | Mbps ▾ |

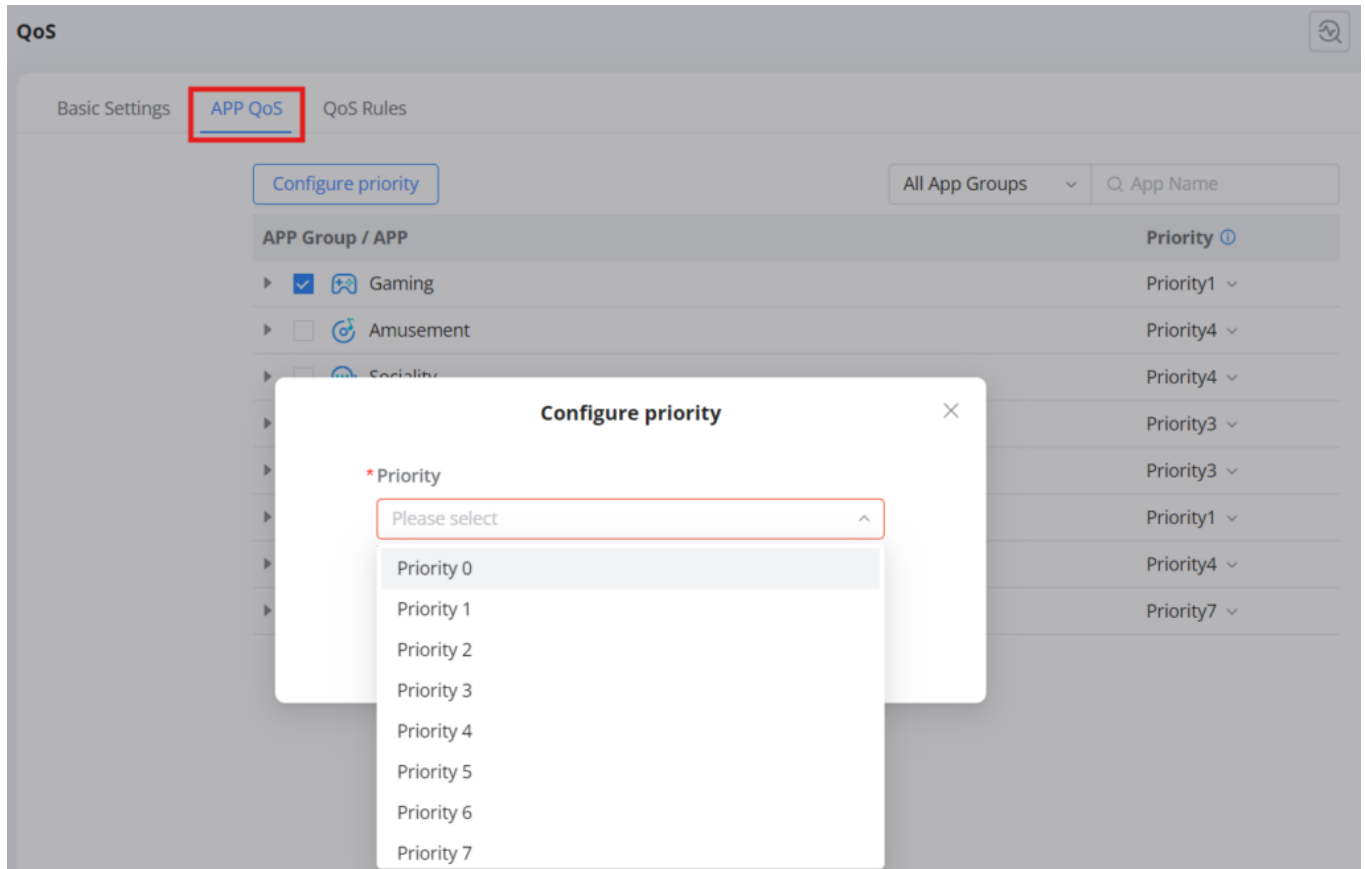
### Priority Settings

| Priority ⓘ | Rewrite DSCP | • Minimum Bandwidth ⓘ            | • Maximum Bandwidth ⓘ             |
|------------|--------------|----------------------------------|-----------------------------------|
| 0          | 56           | <input type="text" value="40%"/> | <input type="text" value="100%"/> |
| 1          | 48           | <input type="text" value="20%"/> | <input type="text" value="100%"/> |
| 2          | 40           | <input type="text" value="15%"/> | <input type="text" value="100%"/> |
| 3          | 32           | <input type="text" value="8%"/>  | <input type="text" value="100%"/> |
| 4          | 24           | <input type="text" value="7%"/>  | <input type="text" value="100%"/> |
| 5          | 16           | <input type="text" value="5%"/>  | <input type="text" value="100%"/> |
| 6          | 8            | <input type="text" value="3%"/>  | <input type="text" value="100%"/> |
| 7          | 0            | <input type="text" value="2%"/>  | <input type="text" value="100%"/> |

QoS Basic Settings

### Configuring APP QoS:

- Navigate to the **APP QoS** tab.
- Click **"Configure Priority"** to assign a priority level to different application groups or individual applications.
- The available priority levels range from **Priority 0 (highest) to Priority 7 (lowest)**.
- Users can classify traffic based on categories such as:
  - **Gaming**
  - **VoIP**
  - **Social Media**
  - **Streaming**
  - **Work & Study**
- Selecting a higher priority ensures better bandwidth allocation for critical applications.



QoS App QoS

### Adding a Custom QoS Rule:

- Go to the **QoS Rules** tab.
- Click "**Add**" to create a new QoS rule.
- Configure the following parameters:
  - **Name:** Enter a descriptive rule name.
  - **Source:** Choose between **all clients**, **specific clients**, or an **IP address**.
  - **Destination:** Select **All Traffic**, **Applications**, or **Domain**.
  - **Apps:** If applicable, select the app or app category to prioritize.
  - **Priority:** Assign a priority level from **0 (highest)** to **7 (lowest)**.
  - **Rewrite DSCP:** Adjust DSCP settings if necessary.
- Click "**Save**" to apply the rule.



No data, please add.

Add

*QoS Rules page*

- Configure the following parameters:
  - **Name:** Enter a descriptive rule name.
  - **Source:** Choose between **all clients**, **specific clients**, or an **IP address**.
  - **Destination:** Select **All Traffic**, **Applications**, or **Domain**.
  - **Apps:** If applicable, select the app or app category to prioritize.
  - **Priority:** Assign a priority level from **0 (highest)** to **7 (lowest)**.
  - **Rewrite DSCP:** Adjust DSCP settings if necessary.
- Click "**Save**" to apply the rule.

\*

Name

Higher Priority Clients

1~64 characters

Enable

☒

\*

Source

☐ All clients ☒ Specified clients ☐ IP Address

\*

Client

Ain(C2:96:0E:C8:D4:F3) × | ▾

\*

Destination

☐ All traffic ☒ Apps ☐ Domain

\*

Apps

Gaming ×

\*

Priority ⓘ

Priority 5 ▾

Rewrite DSCP

6 ▾

Cancel

Save

QoS Add QoS Rule

## NAT

### Port Forwarding

Port forwarding is a feature that allows external devices to communicate with devices on a local network through a specific port or range of ports. This is essential for hosting services such as web servers, gaming servers, or remote access applications. By configuring port forwarding, users can direct incoming network traffic from the WAN (Wide Area Network) to a designated IP address within the LAN (Local Area Network).

#### Accessing the Port Forwarding Page:

##### 1. Navigate to the Router's Web Interface

- Log in to the **router Web UI**.
- From the **left-side menu**, expand the **NAT** section.
- Click on **Port Forwarding**.

##### 2. Adding a New Port Forwarding Rule

- On the **Port Forwarding page**, click the **"Add"** button to create a new forwarding rule.

## Port Forwarding



No data, please add.

Add

Port Forwarding page

Port Forwarding > **Add Port Forwarding**

\* Name

Web Server

1~64 characters

Enable

☒

Protocol Type

☒ TCP/UDP ☐ TCP ☐ UDP

\* Interface

☒ WAN1 ☐ WAN2

WAN IP Address ⓘ

Please select

▼

\* External Port ⓘ

22334

The valid range is 1-65535. You can enter a single port or a port range.

\* Device IP Address

☒ Select from clients ☐ Input manually

192.168.80.97 (Grandstream-GCC6020)

▼

\* Internal Port ⓘ

443

The valid range is 1-65535. You can enter a single port or a port range.

Cancel

Save

Add Port Forwarding

### Configuring the Port Forwarding Rule:

- **Name:** Enter a descriptive name for the rule (e.g., "Web Server").

- **Enable:** Toggle the switch to enable or disable the rule.
- **Protocol Type:** Select the desired protocol:
  - **TCP/UDP** (both protocols)
  - **TCP only**
  - **UDP only**
- **Interface:** Choose the WAN interface for this rule (**WAN1 or WAN2**).
- **WAN IP Address:** Used when the WAN interface has multiple public IP addresses. Selecting a specific IP binds this rule to that address, which is useful if your ISP provides multiple static IPs and you want this service reachable through one of them only. If your WAN uses a dynamic IP that changes frequently, or you don't need to restrict access to a single address, leave this field empty. In that case, the router automatically applies the rule to all IPs on the chosen interface so external users can still reach the internal server without manual updates.
- **External Port:** Specify the external port(s) that will receive incoming traffic.  
Note: The external port should be within the valid range of **1-65535**.
- **Device IP Address:** Select a target device from the list of connected clients or manually enter the IP address of the internal device.
- **Internal Port:** Specify the internal port(s) where traffic should be forwarded.  
Note: If a range of ports is used, the internal and external port ranges must match.

#### **Understanding the Port Forwarding Notes:**

- **External Port Note:** This port is open to the internet, allowing external users to send requests.
- **Internal Port Note:** This is the destination port inside the local network. If a port range is specified, the difference between the starting and ending ports must remain consistent.

## **DDNS**

Dynamic DNS (DDNS) allows users to associate a domain name with a changing dynamic IP address. This feature is useful for users who host services at home or in environments where the public IP address frequently changes. By enabling DDNS, users can access their network remotely using a domain name instead of remembering a changing IP address.

#### **Accessing the DDNS Settings:**

1. **Log in to the Router Web UI.**
2. **Navigate to NAT -> DDNS.**
3. Click on **"Add"** to configure a new DDNS entry.

DDNS > Add DDNS

Service Provider ☒ NO-IP ☐ DynDNS.

Enable ☒

\* Username

\* Password

\* Domain  Please go to [no-ip.com](https://no-ip.com) to register to get the corresponding username, password and domain

\* Interface ☒ WAN1 ☐ WAN2

IP Source ⓘ ☒ WAN IP ☐ Public IP

\* Update Interval (Min)  Default 10, range 1~1440

DDNS

## Configuring DDNS:

### 1. Service Provider:

- Select a supported DDNS service provider:
  - **NO-IP**
  - **DynDNS**
- Users must have an account with the chosen provider.

### 2. Enable DDNS:

- Toggle the **Enable** switch to activate DDNS.

### 3. Account Credentials:

- **Username:** Enter the registered username from the DDNS provider.
- **Password:** Enter the corresponding password.
- **Domain:** Input the registered DDNS domain (e.g., myrouter.no-ip.com).

### 4. Interface Selection:

- Choose the WAN interface to associate with the DDNS:
  - **WAN1**
  - **WAN2**

## 5. IP Source:

- Choose how the IP address should be obtained:
  - **WAN IP** (Default) - Uses the router's WAN IP.
  - **Public IP** - Uses the detected public-facing IP.

## 6. Update Interval:

- Set the frequency for updating the DDNS record.
- Default: **10 minutes** (Range: **1 - 1440 minutes**).

## UPnP

Universal Plug and Play (UPnP) is a feature that allows devices on a local network to automatically configure port forwarding on the router. This is useful for applications such as online gaming, video conferencing, and peer-to-peer connections, where port forwarding is required for seamless communication.

### Accessing the UPnP Settings:

1. Log in to the Router Web UI.
2. Navigate to **NAT -> UPnP**.
3. The UPnP settings page will be displayed.

UPnP

UPnP ☒ Once enabled UPnP (Universal Plug and Play), computers in the LAN can request the router to do port forwarding automatically.

Interface ☒ WAN1 ☐ WAN2

Cancel Save

UPnP Port Forward

Refresh

| Application Descri...                                                                                 | IP Address | Internal Port | External Port | Protocol Type |
|-------------------------------------------------------------------------------------------------------|------------|---------------|---------------|---------------|
| <br>No UPnP device |            |               |               |               |

UPnP

### Configuring UPnP:

#### 1. Enable UPnP:

- Toggle the **UPnP** switch to activate the feature.

- Once enabled, devices on the LAN can request the router to handle port forwarding automatically.

## 2. Select the Interface:

- **WAN1** (default) or **WAN2** can be chosen for UPnP operation.

## 3. Saving the Configuration:

- Click "**Save**" to apply the changes.

### Security Considerations:

- While UPnP simplifies port forwarding, it may pose security risks if enabled without proper monitoring.
- It is recommended to **disable UPnP** if not actively used to prevent unauthorized applications from opening ports.
- Users can manually configure port forwarding for more control over network security.

## DMZ

The **DMZ (Demilitarized Zone)** feature allows a device on the local network to be fully exposed to the internet, bypassing firewall protection. This is typically used for applications that require unrestricted access, such as gaming consoles, web servers, or VoIP devices.

### Accessing the DMZ Settings:

1. Log in to the Router Web UI.
2. Navigate to **NAT -> DMZ**.
3. The DMZ settings page will be displayed.

### DMZ

DMZ

☒ Enabling the DMZ host function can fully expose the designated device to the Internet.

WAN1 Host IP Address

192.168.80.22

WAN2 Host IP Address

192.168.80.66

Cancel

Save

DMZ

### Configuring the DMZ:

#### 1. Enable the DMZ Function:

- Toggle the **DMZ** switch to activate this feature.
- Once enabled, the specified device will be fully exposed to the internet.

#### 2. Enter the DMZ Host IP Address:

- For **WAN1**, enter the internal IP address of the device you wish to expose.
- If using **WAN2**, enter the corresponding IP address for that network.

#### Security Considerations:

- The **DMZ host is vulnerable** to external attacks since it is directly exposed to the internet.
- It is **recommended to use DMZ only when necessary** and for trusted devices.
- For enhanced security, consider **using Port Forwarding** instead of a DMZ for specific applications.
- Ensure the DMZ host has a **strong firewall and security measures** in place.

## Security

### Security Firewall

The **Security Firewall** section allows users to configure and monitor security settings to protect the router and connected devices from potential threats. This section is divided into two key areas:

- **Defense Settings**
- **Defense Statistics**

To access the Security Firewall settings:

1. Navigate to **Security** from the left-side menu.
2. Click on **Security Firewall**.

#### Defense Settings:

The **Defense Settings** tab allows users to enable or disable core security features.

- **Basic Security Defense:** This enables fundamental protection against common network threats such as port scanning, ping floods, and brute-force login attempts. When enabled, it applies system-wide detection rules to block suspicious activity.

**Note:** To allow trusted devices to bypass this protection, configure exceptions under **Advanced -> Security -> IP Exception**.

- **Content Security Detection:** When enabled, this feature allows users to configure content filtering and security settings via the **Content Control** section.

If Content Security Detection is enabled, users must configure content control settings separately by navigating to Security -> Content Control.

### Security Firewall

Defense Settings

Defense Statistics

Basic Security Defense

☒

 Please go to [\[IP Exception\]](#) to configure IP exceptions

Content Security Detection

☒

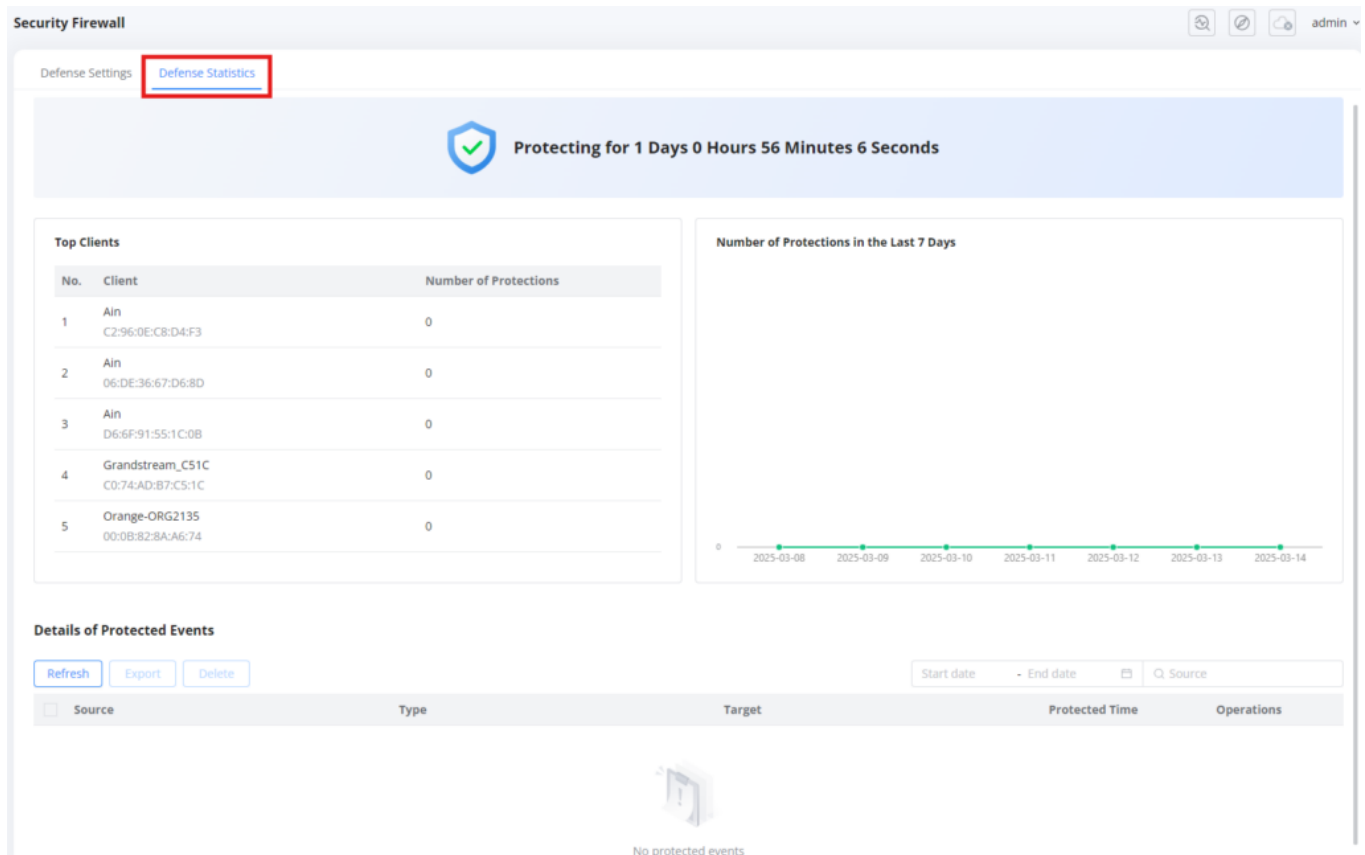
 Please go to [\[Content Control\]](#) to configure

Cancel

Save

## Defense Statistics

The **Defense Statistics** tab provides real-time data on the router's security protections.



Security Firewall Defense Statistics

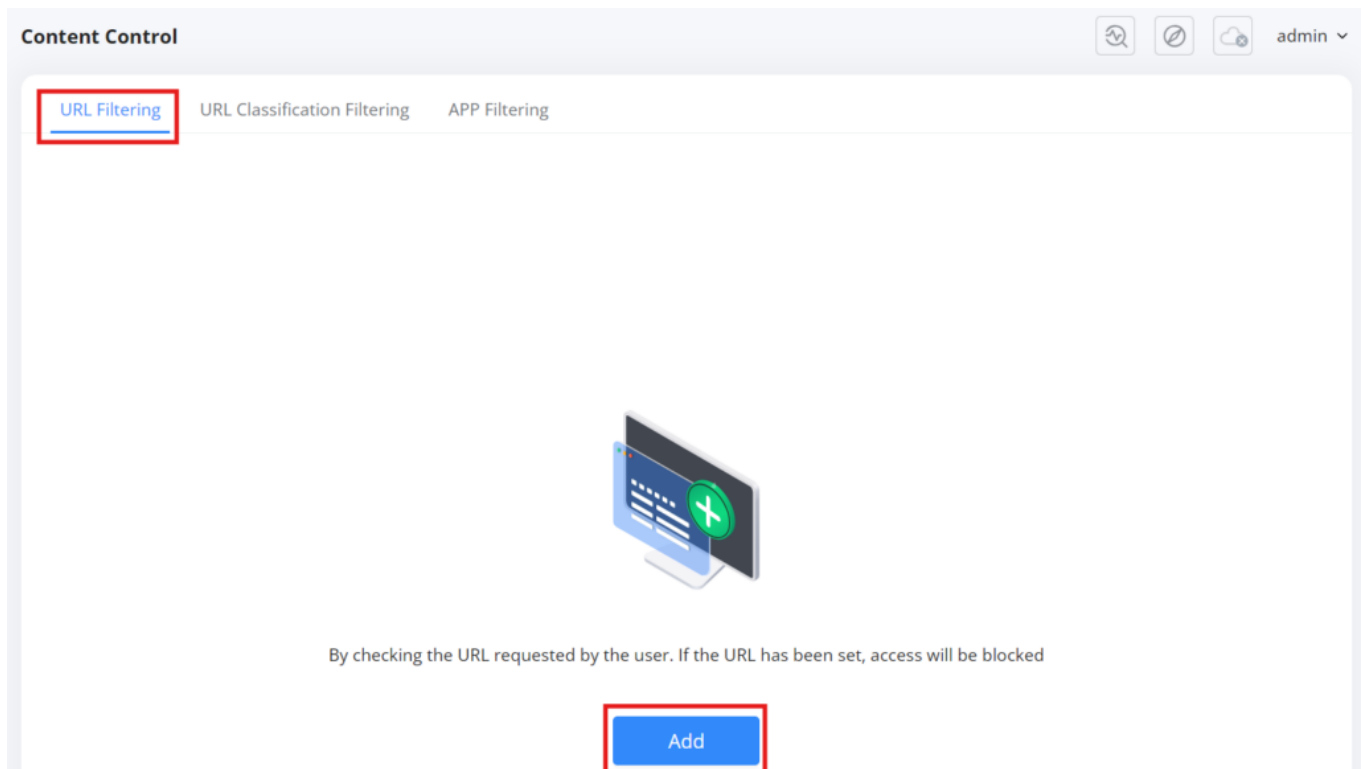
### Key Metrics in Defense Statistics:

- **Protection Duration:** Displays how long the security system has been actively protecting the network.
- **Top Clients:** Lists connected clients along with the number of security protections applied.
- **Number of Protections in the Last 7 Days:** A graphical representation of security events over the past week.
- **Details of Protected Events:** Displays a log of security events, including source, type, target, and protection time.

## Content Control

The **Content Control** section allows administrators to manage and restrict network access to websites and applications based on predefined filters and categories. This feature is useful for network security, parental controls, and workplace productivity.

To access the **Content Control** page, navigate to: **Security -> Content Control**



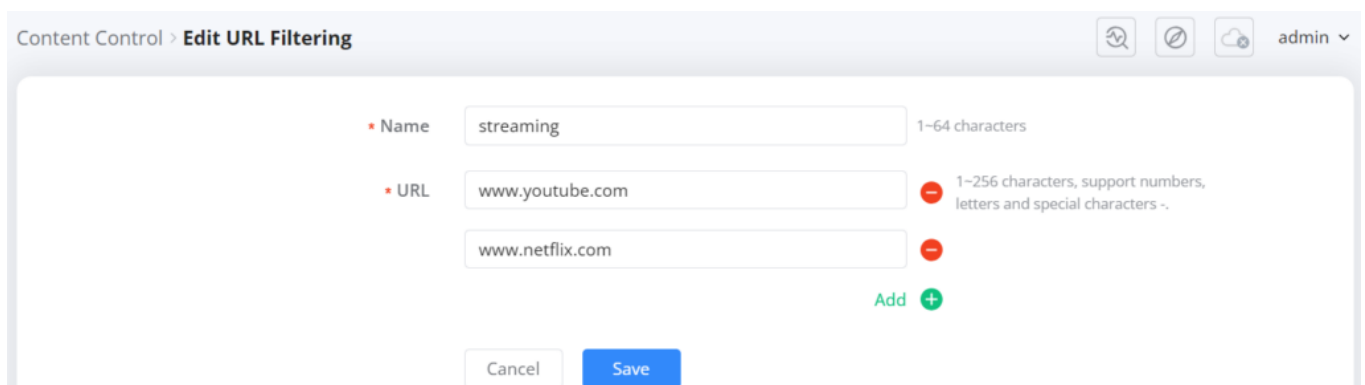
Content Control page

## URL Filtering

URL Filtering enables administrators to manually specify websites that should be blocked on the network.

1. Click on the **"Add"** button.
2. Enter a **Name** for the filter rule.
3. Specify one or more URLs (e.g., [www.youtube.com](http://www.youtube.com), [www.netflix.com](http://www.netflix.com)).
4. Click **"Save"** to apply the rule.

Once added, all clients connected to the network will be restricted from accessing the specified websites.



Content Control Add URL Filtering

## URL Classification Filtering

This feature provides category-based website filtering, allowing administrators to block or allow predefined groups of websites.

### Blocking or Allowing Categories

1. Navigate to the **URL Classification Filtering** tab.
2. A list of categories, such as **Adult, Phishing, Gambling, Hacking, Cryptojacking, etc.**, will be displayed.

3. To block a category, select **"Block"** in the action column.

4. To allow access to a category, select **"Allow"**.

This method is efficient for restricting entire categories instead of entering URLs manually.

Content Control

URL Filtering **URL Classification Filtering** APP Filtering

Number of Classifications:19 Number of URLs:219117

**Allow** **Block**

| <input checked="" type="checkbox"/> | Classification Name | Number of URLs | Action  |
|-------------------------------------|---------------------|----------------|---------|
| <input type="checkbox"/>            | Adult               | 93540          | Block ▾ |
| <input type="checkbox"/>            | Mixed adult         | 150            | Block ▾ |
| <input type="checkbox"/>            | Lingerie            | 132            | Block ▾ |
| <input type="checkbox"/>            | Sexual education    | 12             | Block ▾ |
| <input type="checkbox"/>            | Aggressive          | 144            | Block ▾ |
| <input type="checkbox"/>            | Ddos                | 421            | Allow ▾ |
| <input type="checkbox"/>            | Hacking             | 271            | Allow ▾ |
| <input checked="" type="checkbox"/> | Phishing            | 99790          | Allow ▾ |
| <input type="checkbox"/>            | Drogue              | 602            | Allow ▾ |
| <input type="checkbox"/>            | Gambling            | 5656           | Allow ▾ |
| <input type="checkbox"/>            | Dangerous material  | 31             | Allow ▾ |
| <input type="checkbox"/>            | Bitcoin             | 330            | Allow ▾ |
| <input type="checkbox"/>            | Cryptojacking       | 16280          | Allow ▾ |
| <input type="checkbox"/>            | Stalkerware         | 30             | Allow ▾ |
| <input type="checkbox"/>            | Remote control      | 64             | Allow ▾ |

Content Control URL Classification Filtering

## App Filtering

App Filtering allows administrators to control access to applications based on their category or specific application names.

### Blocking or Allowing Applications:

1. Navigate to the **App Filtering** tab.
2. A list of categories such as **Gaming, Sociality, VoIP, Study, Official, etc.**, will be displayed.
3. Expand a category to view specific applications.
4. Choose **"Block"** or **"Allow"** for each application or entire category.

This feature is useful for blocking non-work-related applications such as gaming, streaming, or social media.

**Content Control**

admin

URL FilteringURL Classification Filtering**APP Filtering**

Number of Classifications:8Total Number of APPs2531

AllowBlock

All App GroupsApp Name

| APP Group / APP                                  | Action |
|--------------------------------------------------|--------|
| <input type="checkbox"/> Gaming (286)            | Block  |
| <input type="checkbox"/> Amusement (558)         | -      |
| <input type="checkbox"/> Sociality (136)         | Allow  |
| <input type="checkbox"/> Life (220)              | -      |
| <input type="checkbox"/> Official (693)          | Allow  |
| <input type="checkbox"/> VoIP (40)               | Allow  |
| <input type="checkbox"/> Study (43)              | Allow  |
| <input checked="" type="checkbox"/> Others (555) | Allow  |

Content Control App Filtering

## Blocklist

The **Blocklist** feature allows administrators to block specific wireless clients from connecting to the network. This is useful for restricting access to unauthorized devices or managing network security.

To access the **Blocklist** page, navigate to: **Security -> Blocklist**

## Blocklist

 Only take effect for wireless clients

Add Blocklist

 If the client use random MAC address, the MAC address will be inaccurate. Please disable random MAC address function on client side

Generation Mode

☒ Select from clients ☐ Add Manually

\* MAC Address

Please select

C2:96:0E:C8:D4:F3  
(Ain)

06:DE:36:67:D6:8D  
(Ain)

D6:6F:91:55:1C:0B  
(Ain)

*blocklist*

### Adding a Device to the Blocklist:

1. Click on the **"Add"** button.
2. Choose a **Generation Mode**:
  - **Select from clients** - Choose a MAC address from a list of currently connected devices.
  - **Add Manually** - Enter the device's MAC address manually.
3. Select or enter the **MAC Address** of the client device.
4. Click **"Save"** to block the selected device.

**Note:** This feature **only affects wireless clients**. Wired clients will not be blocked.

This feature requires devices to have a static MAC address to function properly. If your device is using a random MAC address, certain functions may not work as expected. To ensure compatibility, follow the steps in [Disabling Client Random MAC Address](#) to disable the random MAC feature on your device.

# IP Exception

The IP Exception feature allows administrators to exclude specific IP addresses or ranges from the Basic Security Defense mechanism. This is useful when trusted devices are being incorrectly flagged or blocked by the system's firewall protections.

**Note:** The exception only applies to the Basic Security Defense. Other firewall features, such as Content Control or Blocklist, are not affected.

Go to: **Advanced -> Security -> IP Exception**

Click the **Add** button to create a new exception.

IP Exception

admin

The IPs in the list will be ignored for Basic Security Defense detection.

No IP exceptions

Add

IP Exception

## Edit IP Exception



\* Name

1~64 characters

Web Server

Enable



\* IP

IP Address



192.168.80.55

Cancel

Save

*Add an IP Exception*

A configuration window will appear with the following options:

- **Name:** Enter a name to identify the exception rule. (1-64 characters)
- **Enable:** Use the toggle to activate or deactivate the exception.
- **IP:**  
Choose one of the following from the dropdown:
  - \* **IP Address** - for a single host (e.g., 192.168.80.55)
  - \* **IP Range** - for a range of IPs (e.g., 192.168.80.10-192.168.80.30)
  - \* **IP Subnet** - for subnet-based rules (e.g., 192.168.80.0/24)

Click **Save** to apply the changes.

### Use Cases:

- Exclude your own remote IP to prevent being locked out during testing.
- Allow VPN gateways or management devices through, even when firewall rules are strict.
- Prevent internal monitoring systems from being flagged as threats.

## VPN

The VPN section allows users to configure secure communication tunnels between remote networks or clients. The GWN7072 supports up to **8 VPN tunnels** simultaneously and offers multiple VPN protocols suitable for different network environments and security requirements.

To access the settings, navigate to: **Advanced -> VPN**

### Supported VPN Protocols:

Upon entering the VPN section, users are presented with a list of supported VPN protocols. Each option is shown with key highlights to help users select the most suitable type:

- **WireGuard(R)** (Recommended):  
Lightweight and modern protocol with fast performance, small memory usage, and quick configuration. Ideal

for mobile devices and dynamic IP environments.

- **IPSec:**

A traditional and highly secure protocol supporting both **Client-to-Site** and **Site-to-Site** configurations. Supports automatic rebuild of tunnels in case of WAN IP changes, especially when used with GDMS.

- OpenVPN(R):

Compatible with a wide range of platforms. Offers certificate-based user and server authentication. Only **Client-to-Site** mode is available.

- **PPTP:**

Legacy protocol with basic encryption. Only **Site-to-Site** is supported. Best used for environments where compatibility is more important than security.

- **L2TP:**

Extension of PPTP used by some ISPs. It **does not provide encryption** by itself. Only **Site-to-Site** is supported.

**Note:** Device supports up to **8 VPN tunnels** in total across all types.

VPN

admin ▾

📘 Device can configure up to 8 VPN services

Please select the appropriate protocol type

**WireGuard®**

Secure modern VPN tunnel technology, using the most advanced encryption technology. If you connect to terminal devices such as mobile phones and computers, we recommend this solution.

Lightweight, small memory usage

Easy to deploy, supporting a variety of networking scenarios

Faster and low latency than OpenVPN

Configuration generation and quick export

**IPSec**

Standardized network security protocol, providing a point-to-point security that can be implemented in various operating systems and network devices.

Highly secure and flexible

With GDMS Networking, one-stop automatic networking, links can be automatically rebuilt after WAN IP changes.

**OpenVPN®**

A popular and widely used VPN protocol that uses encryption and authentication to create a secure tunnel between users and servers.

Compatible with multiple platforms such as Windows, Mac, Android, iOS, etc.

User and SSL (certificate) authentication methods, suitable for various networking scenarios

## VPN Setup Wizard part 1

Other Types

 **PPTP**

VPN protocol with wide compatibility.

 Simple configuration and deployment, fast connection speed, suitable for users who need high-speed data transfer

 **L2TP**

It is an extension of the PPTP protocol used by Internet service providers (ISPs) and does not provide any encryption itself.

 A traditional VPN is canceling support for many different operating systems

VPN Setup Wizard part 2

### VPN Setup Flow (Per Protocol)

Each protocol has its own configuration workflow:

- **WireGuard(R) Setup Wizard**

After selecting WireGuard, users will be prompted to:

- Enter a name for the tunnel.
- Select the WAN interface.
- Set a **Monitoring Port** (default: 51820).
- Optionally assign forwarding group(s).
- Set **Local IP Address** and **Subnet Mask**.
- Generate or input the **Private Key**. The public key is auto-generated and can be copied.

WireGuard is suitable for fast deployment scenarios and performs best in environments with limited resources.

The screenshot shows the 'Add WireGuard' configuration page. At the top, there's a breadcrumb 'VPN > Add WireGuard®' and a user profile 'admin'. The form includes several fields: 'Name' (WireGuard®, 1-64 characters), 'Enable' (toggle), 'Interface' (radio buttons for WAN1 and WAN2), 'Monitoring Port' (51820, range 1024-65535), 'Forwarding Destination Group' (All), 'Local IP Address' (10.129.127.1), 'Subnet Mask' (255.255.255.0, with a note about supported ranges), 'Private Key' (masked, with a 'One-click generation' link), and 'Public Key' (0u15ASluWJScnryXjQKjgG/DjhCwebKHveKy6zKgcT, with a 'Copy' button). At the bottom are 'Cancel' and 'Save' buttons.

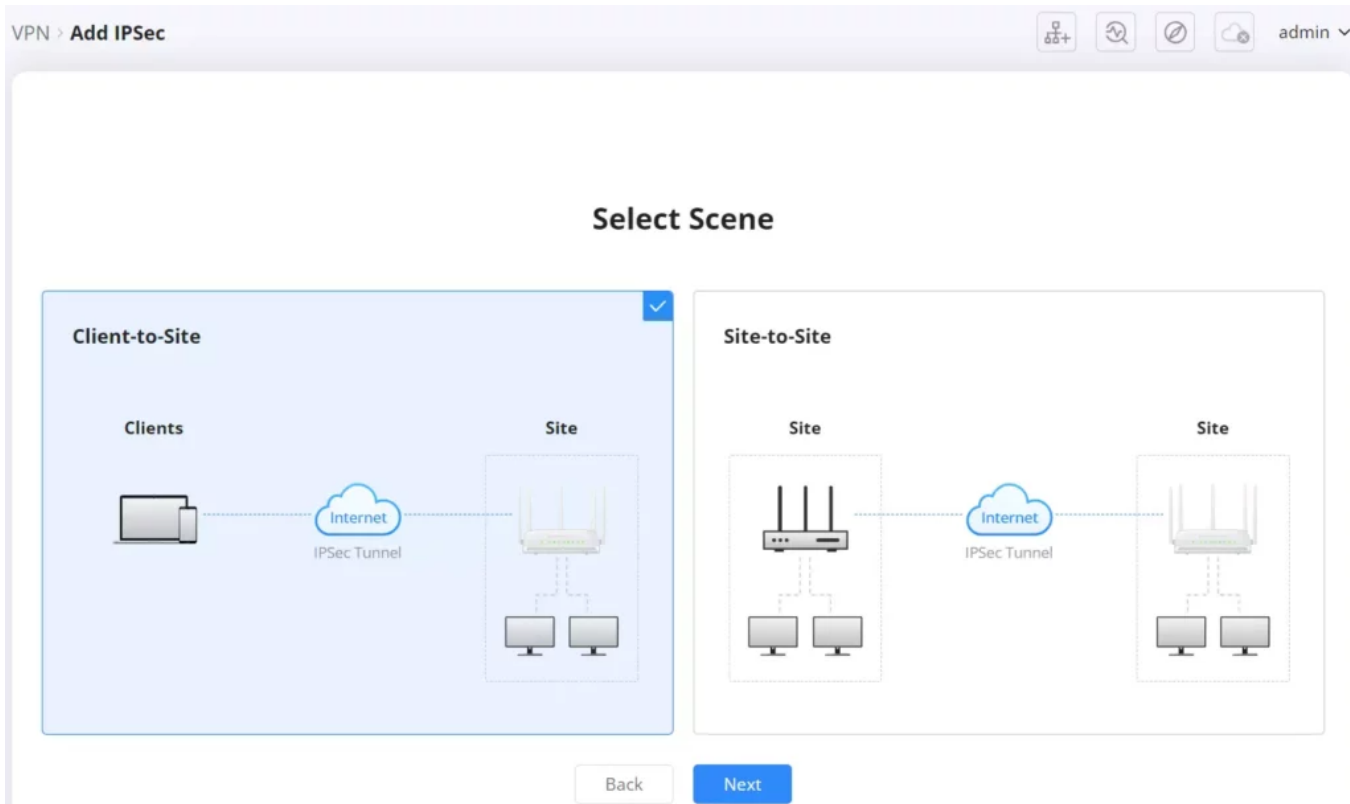
WireGuard(R) Example

- **IPSec Setup Wizard**

After selecting IPSec, users must choose the **scene**:

- **Client-to-Site**: Remote clients connect to the internal network.
- **Site-to-Site**: Two sites connect directly via a secure tunnel.

The next steps depend on the selected mode, requiring IP configurations, authentication credentials, and encryption settings.



IPSec Example

#### - OpenVPN(R) Setup Wizard

Only **Client-to-Site** is available. Configuration includes selecting the tunnel mode, inputting certificates or authentication info, and specifying the client subnet.



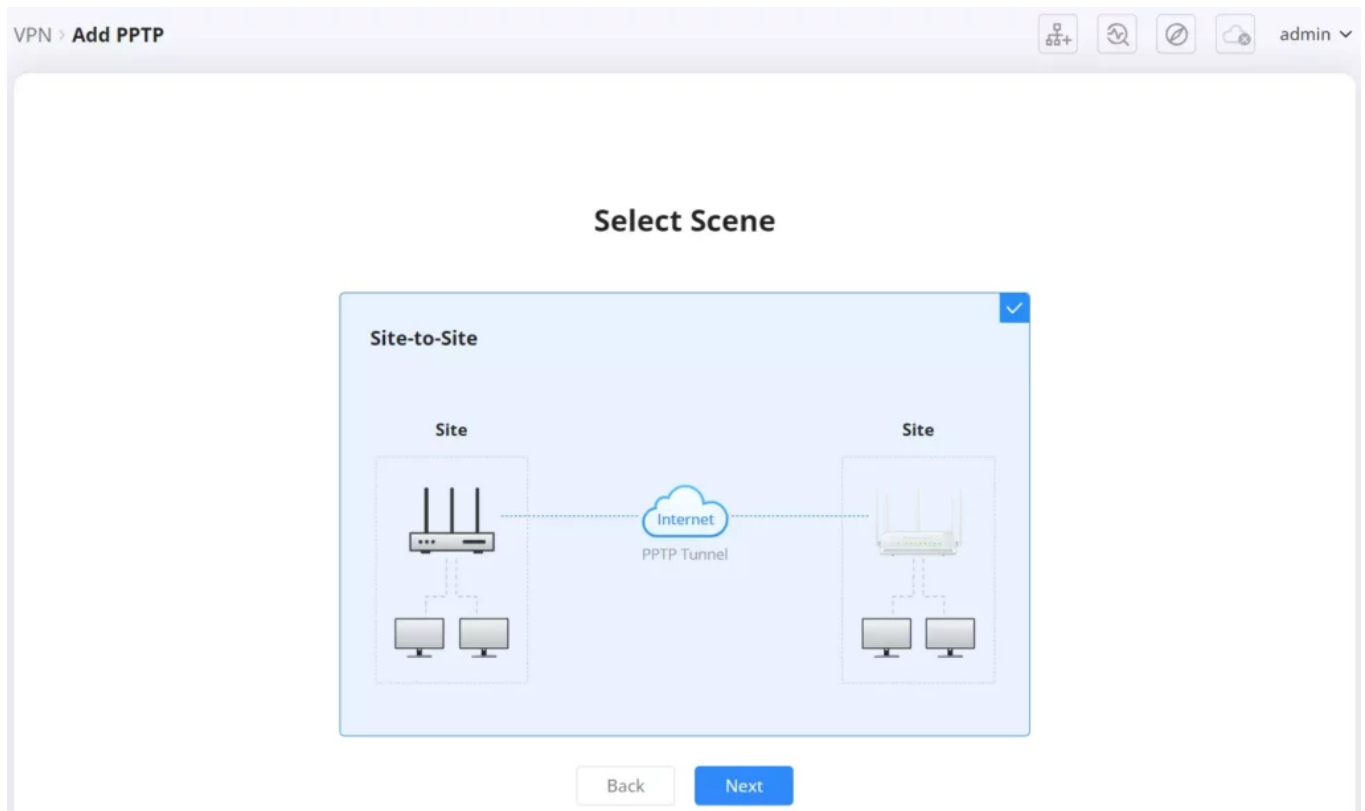
OpenVPN(R) Example

#### - PPTP and L2TP Setup Wizard

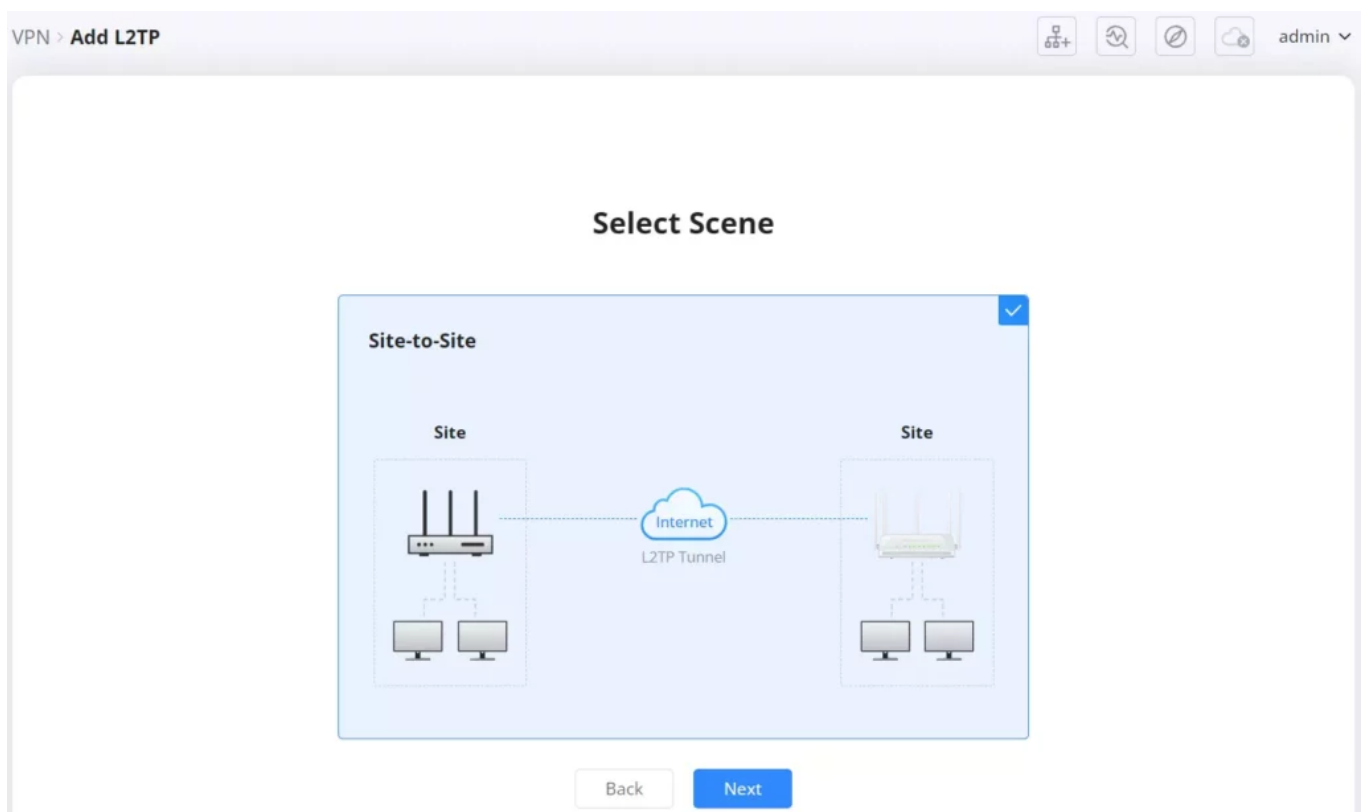
Both protocols only support **Site-to-Site** mode. After selection, users will configure:

- Remote and local endpoint IPs.
- Authentication credentials.
- Routing settings.

These types are generally used for legacy or simple deployments.



*PPTP Example*



*L2TP Example*

For more details on how to configure VPN, please refer to this guide: [VPN Guide](#)

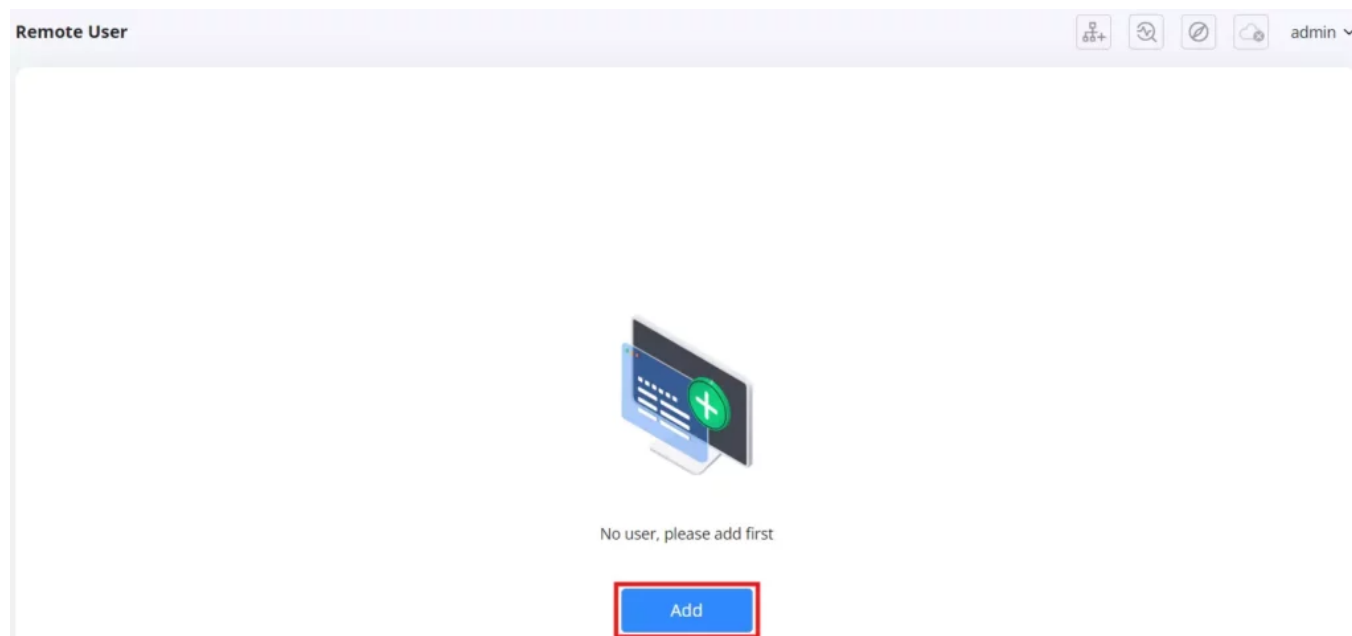
## Remote User

The **Remote User** feature allows administrators to configure and manage individual VPN user accounts that connect to the router using either IPSec or OpenVPN protocols. This is essential for secure remote access to the network.

Users can navigate to: **Advanced -> VPN -> Remote User**

Click **Add** to begin configuration.

**Note:** This feature is only available on models that support Remote User VPN functionality.



*Remote User page*

Upon clicking the **Add** button, a configuration page appears where you can enter details for the new VPN user.

- **Name:** Enter a unique name for the user (1-64 characters).
- **Enable:** Toggle to activate or deactivate the account.
- **Server Type:** Choose between:

- **IPSec**
- **OpenVPN(R)**

### IPSec Configuration

If **IPSec** is selected:

- **Server:** Select an existing IPSec server configured on the router.
- **Dial-in Type:**
  - **IKEv1**
  - **IKEv2**
  - **IPSec XAuth**
- **Username:** Required field (supports 0-64 characters, including @\$%\_-).
- **Password:** Required field (same character support as username).

- **IP Address Range:** Define a start and end IP address for the remote user tunnel (e.g., 192.168.90.5 - 192.168.90.9).

Remote User > Add User

Name: Remote User (1~64 characters)

Enable: ☒

Server Type: ☒ IPSec ☐ OpenVPN®

Server: IPsec Server

Dial-in Type: ☒ IKEv1 ☐ IKEv2 ☐ IPsec XAuth

IP Address Range: 192.168.90.5 - 192.168.90.9

Cancel Save

Remote User Server type IPSec IKEv1 and IKEv2

Remote User > Add User

Name: Remote User (1~64 characters)

Enable: ☒

Server Type: ☒ IPSec ☐ OpenVPN®

Server: IPsec Server

Dial-in Type: ☐ IKEv1 ☐ IKEv2 ☒ IPsec XAuth

Username: remote\_user\_1 (1~64 characters, support numbers, letters and special characters @\$%\_-)

Password: ..... (1~64 characters, support numbers, letters and special characters @\$%\_-)

IP Address Range: 192.168.90.5 - 192.168.90.9

Cancel Save

Remote User Server type IPSec IPsec XAuth

## OpenVPN(R) Configuration

If **OpenVPN(R)** is selected:

- **Server:** Select an existing OpenVPN server from the dropdown.
- **Username / Password:** Used for authentication.
- **Client Subnet:** Specify one or more client IP subnets. Click **Add** to include multiple entries.
- **Certificate Type:**
  - **Default Certificate:** Uses the router's default certificate.
  - **Custom Certificate:** Upload and assign a specific certificate file.
  - **Client Certificate:** Required if a custom certificate is selected.

Remote User > **Add User** admin ▾

**Name**  1-64 characters

**Enable** ☒

**Server Type** ☐ IPSec ☒ OpenVPN®

**Server**

**Username**  0-64 characters, support numbers, letters and special characters @\$%\_-

**Password**  0-64 characters, support numbers, letters and special characters @\$%\_-

**Client Subnet**

|                                           |   |                                 |   |
|-------------------------------------------|---|---------------------------------|---|
| <input type="text" value="192.168.90.5"/> | / | <input type="text" value="24"/> | ⊖ |
| <input type="text" value="192.168.90.3"/> | / | <input type="text" value="24"/> | ⊖ |

**Add** ☒

**Certificate Type** ☐ Default Certificate ☒ Custom Certificate

**Client Certificate**

*Remote User OpenVPN(R)*

Once all fields are completed, click **Save** to apply the settings.

## IPv6

The router supports IPv6 networking, allowing users to configure WAN and LAN settings for next-generation Internet Protocol connectivity. IPv6 provides a larger address space, improved security, and better support for modern networking needs. The configuration interface for IPv6 is accessible via the router's web UI under **Advanced -> IPv6**.

IPv6

WAN IPv6

Enable ☒

\* Interface

☒ WAN1
☐ WAN2

Internet Connection Type

☒ Dynamic IP
☐ Static IP
☐ PPPoE

Static DNS

☒

\* Preferred DNS Server

Alternative DNS Server

Get PD prefix ⓘ

☒

LAN IPv6

Enable ☒

IPv6 Address Prefix / Prefix Length

Automatic Acquisition

Interface ID ⓘ

☐

IPv6 Address Assignment ⓘ

Stateless DHCPv6

Cancel

Save

IPv6

## WAN IPv6

This section manages IPv6 connectivity for the WAN interfaces.

### WAN IPv6

Enable

☒

\* Interface

☒ WAN1
☐ WAN2

Internet Connection Type

☒ Dynamic IP
☐ Static IP
☐ PPPoE

Static DNS

☒

\* Preferred DNS Server

Alternative DNS Server

Get PD prefix ⓘ

☒

WAN IPv6 Get PD Prefix enabled

- **Enable:** Turns on IPv6 support on the selected WAN interface.

- **Interface:** Select either **WAN1** or **WAN2** to bind the IPv6 configuration.
- **Internet Connection Type:**
  - **Dynamic IP** - IPv6 is assigned automatically from the upstream network.
  - **Static IP** - Manually configure the IPv6 address.
- **Static DNS:** Toggle to manually define IPv6 DNS servers:
  - **Preferred DNS Server**
  - **Alternative DNS Server**
- **Get PD prefix:** Enable this to request and use a **Prefix Delegation (PD)** from the ISP, which is often used to assign IPv6 prefixes to the LAN side.

When enabled, this option will also set the **LAN IPv6 -> IPv6 Address Prefix / Prefix Length** field to Automatic Acquisition. If disabled, users must manually input these fields in the LAN section.

## LAN IPv6

This section configures IPv6 behavior within the local network.

### LAN IPv6

Enable

☒

\* IPv6 Address Prefix / Prefix Length

IPv6 Address Prefix

/

Prefix Length

Prefix Length range 48~64

Interface ID ⓘ

☒

\* Customize Interface ID

IPv6 Address Assignment ⓘ

Stateless DHCPv6

▼

Cancel

Save

*LAN IPv6 Get PD prefix is disabled*

- **Enable:** Enables IPv6 functionality for LAN.
- **IPv6 Address Prefix / Prefix Length:** Set to **Automatic Acquisition** or specify manually if needed.

This field is automatically filled if the Get PD prefix option is enabled in the WAN IPv6 section. Otherwise, it must be entered manually.

- **Interface ID:** Toggle to enable interface identifier customization. (Auto-generate IPv6 address when disabled )
- **Customize Interface ID:** Appears only when the toggle is on.

## - IPv6 Address Assignment:

- Stateless DHCPv6
- Stateful DHCPv6
- SLAAC (if available)

This modular approach provides flexibility for both home users and enterprise setups with dual WAN deployments.

## Captive Portal

### Policy

The **Captive Portal Policy** feature allows administrators to define access policies for users connecting to the network via a captive portal. These policies can be applied to SSIDs when setting up Wi-Fi access, ensuring that users are prompted with a login or terms acceptance page before gaining internet access.

Located under **Advanced -> Captive Portal -> Policy**, this section displays existing captive portal policies and allows the creation of new ones.

To create a new policy, click the **"Add"** button.

**Policy**

[Add](#)

| Policy Name           | Splash Page            | Client Expiration | Operations                                  |
|-----------------------|------------------------|-------------------|---------------------------------------------|
| Captive Portal Policy | Internal (Splash page) | 3d 3h 3min        | <a href="#">Edit</a> <a href="#">Delete</a> |

[Add a Policy rule](#)

### Creating a New Captive Portal Policy:

After clicking **"Add"**, the configuration page appears with several customizable settings:

1. **Policy Name:** Define a unique name for the captive portal policy.
2. **Splash Page:** Choose between:
  - **Internal:** Uses the built-in splash page.
  - **External:** Redirects users to an external captive portal.
3. **Client Expiration:** Set the duration for which users remain authenticated before requiring re-authentication.
4. **Client Idle Timeout (Optional):** Defines the time (in minutes) after which inactive clients are disconnected.
5. **Unauthenticated Client Timeout (Optional):** Specifies how long an unauthenticated client can remain connected before being disconnected.
6. **Daily Limit:**
  - **Disable:** No limits are applied.

- **Limit by client:** Restricts access per client.
  - **Limit by authentication method:** Restricts access based on authentication type.
7. **Splash Page Customization:** Select the type of splash page to display.
  8. **Login Page Redirection:**
    - **Redirect to the original URL:** After authentication, users are redirected to the page they initially requested.
    - **Redirect to an external page:** After authentication, users are redirected to a specified URL.
  9. **HTTPS Redirection:** If enabled, all HTTP traffic will be redirected to HTTPS.
  10. **Secure Portal:** Enabling this ensures encrypted connections for the captive portal.
  11. **Pre-Authentication Rules:** Allows defining specific IPs or domains that users can access before authentication.
  12. **Post-Authentication Rules:** Defines accessible resources after authentication.

Once configured, click **"Save"** to apply the policy.

Policy > Add Policy

Policy Name

Captive Portal - policy

1~64 characters

Splash Page

☒ Internal
 ☐ External

Client Expiration ⓘ

7

day

3

hour

0

min

Client Idle Timeout (Min) ⓘ

Range 5~1440

Unauthenticated Client Timeout (Min) ⓘ

Range 1~1440

Daily Limit ⓘ

☒ Disable
 ☐ Limit by client
 ☐ Limit by authentication method

Splash Page Customization

Splash page

▼

Login Page ⓘ

☒ Redirect to the original URL
 ☐ Redirect to an external page

HTTPS Redirection ⓘ

☐

Secure Portal ⓘ

☐

Pre Authentication Rule(s) ⓘ

Please enter IP or domain

+

+

Post Authentication Rule(s) ⓘ

Please enter IP or domain

+

+

Cancel

Save

Add/Edit Policy Rule

### Applying a Captive Portal Policy:

After creating a captive portal policy, it can be assigned to an SSID in the **Wi-Fi Settings** section. Users

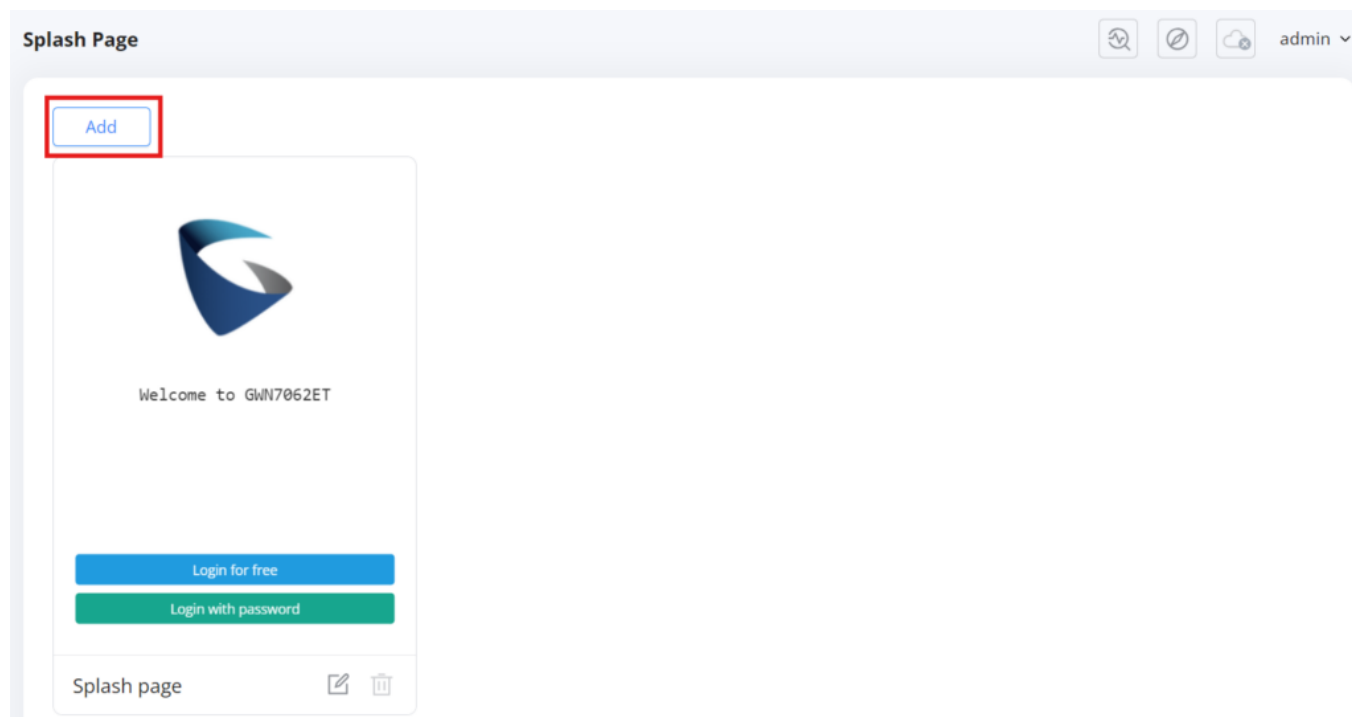
connecting to this SSID will be required to authenticate via the defined captive portal policy before accessing the network.

This feature helps administrators enforce security and access controls effectively, ensuring compliance with network policies.

## Splash Page

The **Splash Page** is a customizable web-based login interface that appears when users connect to a Wi-Fi network using a **Captive Portal Policy**. This page is used for authentication and can be configured with different login methods.

Go to **Advanced -> Captive Portal -> Splash Page** in the router's Web UI.



*Splash page*

### Splash Page Components:

When adding a splash page, users can customize various elements, including:

- **Basic Components**
  - **Image:** Upload a custom logo or branding.
  - **Text:** Display a welcome message.
  - **Terms of Use:** Optionally require users to accept terms before accessing the network.
- **Login Components**
  - **For Free:** Allows open access without authentication.
  - **Simple Password:** Users enter a pre-configured password.
  - **Facebook Login:** Authenticate using a Facebook account.
  - **X (formerly Twitter) Login:** Authenticate using an X (Twitter) account.
  - **Google Login:** Authenticate using a Google account.
  - **Voucher Login:** Users enter a generated voucher code.

Customization Options:

- **Button Text & Colors:** Customize login button text, colors, and styles.
- **HTTPS Redirection:** Enable/disable HTTPS redirection for security.
- **Secure Portal:** Enhances security for the login page.

Splash Page > Add Splash Page

\* Splash page Wifi

Cancel

Save

Basic Components

☒ Image

☒ Text

☒ Terms of Use

Logging Components

☐ For Free

☒ Simple Password

☒ Facebook

☒ X

☒ Google

☒ Voucher

Welcome to GwN7062ET

Login with password

Login with Facebook

Login with X

Login with Google

Login with Voucher

☐ Accept Terms of Use

Logging Components

Simple Password

Password

1~10 characters, support numbers, letters and special characters \_-]

\*\*\*\*\*

Button Text

Login with password

Button Color

Font Color

Facebook

X

Google

Voucher

Add a splash page

Using Splash Page with Captive Portal Policy:

Once created, a splash page can be assigned to a **Captive Portal Policy**, which is then linked to an SSID in **Wi-Fi Settings**. This ensures that users connecting to the Wi-Fi network will be redirected to the splash page for authentication.

Guests

The **Guests Page** provides an overview of all users who have connected to the network using a **Captive Portal Policy**. This page displays authentication details for clients who accessed Wi-Fi SSIDs configured with a captive portal.

Navigating to the Guests Page:

- Go to **Advanced -> Captive Portal -> Guests** in the router's Web UI.

Guests

All Wi-Fis

Q Client name / MAC address

| Client                                                           | Wi-Fi Name | Authentication Type | Login Time          | End Time            | Authentication Status | Operations  |
|------------------------------------------------------------------|------------|---------------------|---------------------|---------------------|-----------------------|-------------|
| <div><div></div><div>Android-4<br/>0A:85:8F:28:E8:6B</div></div> | portal     | For Free            | 2025/03/14 16:31:07 | 2025/03/17 19:34:07 | Authenticated         | <div></div> |

Total: 1

< 1 >

10 / page

Guests

Guest Information Displayed:

The **Guests Page** lists details of connected clients, including:

- **Client:** The device name and MAC address.
- **Wi-Fi Name:** The SSID (Wi-Fi network) the client connected to.
- **Authentication Type:** The method used to authenticate (e.g., "For Free," "Simple Password," "Facebook," etc.).
- **Login Time:** The timestamp when the client successfully authenticated.
- **End Time:** The expiration time of the authentication session.
- **Authentication Status:** Indicates whether the client is currently authenticated or not.

#### Filtering and Managing Guests:

- Use the search bar to filter guests by **Wi-Fi SSID** or **Client Name/MAC Address**.
- Click the **Trash Bin** icon under "Operations" to remove or disconnect a guest from the network.

#### Use Case:

This page is useful for administrators to:

- Monitor guest connections in real-time.
- Manage authentication sessions for different users.
- Identify and troubleshoot access issues.

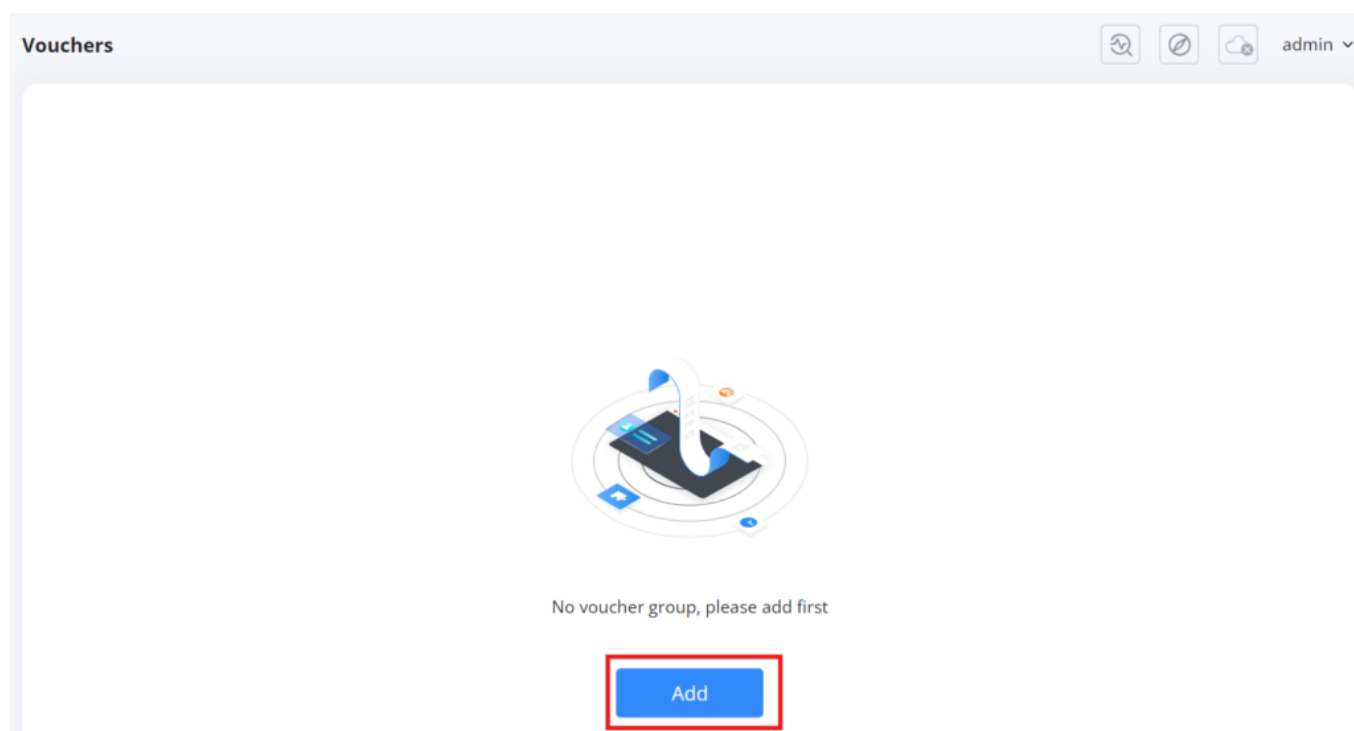
## Vouchers

The **Vouchers** feature is part of the **Captive Portal** system. Vouchers allow administrators to generate access codes that can be distributed to users for temporary or controlled internet access. These vouchers can be linked to a **Splash Page**, which in turn is applied to a **Captive Portal Policy** and assigned to a Wi-Fi SSID.

#### Navigating to the Vouchers Page:

To configure vouchers, go to: **Advanced -> Captive Portal -> Vouchers**

This page displays the list of generated voucher groups and provides options to create, manage, and distribute them.



*Voucher page*

## Adding a Voucher Group:

To create a new voucher group:

1. Click the **Add** button on the **Vouchers** page.
2. Fill in the required details:

- **Voucher Group Name:** A label to identify the voucher group.
- **Quantity:** Number of vouchers to generate (1-100).
- **Max Devices:** Maximum number of devices per voucher (1-5).
- **Byte Limit:** Set a data limit per voucher or per device (MB/GB).
- **Traffic Allocation Method:**
  - **Per Voucher:** The total data limit applies to all devices using the same voucher.
  - **Per Device:** Each device gets an independent data limit.
- **Duration:** Defines how long the voucher remains active (days/hours/minutes).
- **Valid Time:** The period before the voucher expires (1-365 days).
- **Description:** Optional text to describe the voucher usage.

3. Click **Save** to generate the vouchers.

Vouchers > Add Voucher Group

\* Voucher Group Name: Guests Voucher (1-64 characters)

\* Quantity: 100 (Range 1-100)

\* Max Devices: 5 (Range 1-5)

Byte Limit: 5 (The range is 1-1024, if it is empty, there is no limit)

Traffic Allocation Method: ☒ Per Voucher ☐ Per Device

\* Duration: 6 day 3 hour 24 min

\* Valid Time (Days): 7 (Range 1-365)

Description: Vouchers for Guests (0-128 characters)

Cancel Save

*Add/Edit voucher*

## Managing Vouchers:

Once created, the voucher group will be listed on the **Vouchers** page. Each entry includes:

- **Voucher Quota:** Displays used vs. available vouchers.
- **Duration:** The validity period of the vouchers.
- **Byte Limit:** The data allocation per voucher.
- **Created Time & Expiry Time:** When the vouchers were generated and when they will expire.

- **Description:** Notes about the voucher group.

#### Operations Available:

- **View Details:** Inspect voucher details.
- **Print:** Generate a printable voucher list.
- **Download:** Export voucher details as a file.
- **Delete:** Remove a voucher group.

| Vouchers                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |             |                 |                     |                     |                     |                                                              |                    |               |          |            |              |             |             |            |                |       |             |                 |                     |                     |                     |                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|-------------|-----------------|---------------------|---------------------|---------------------|--------------------------------------------------------------|--------------------|---------------|----------|------------|--------------|-------------|-------------|------------|----------------|-------|-------------|-----------------|---------------------|---------------------|---------------------|--------------------------------------------------------------|
| <div>Add</div> <table> <tr> <th>Voucher Group Name</th><th>Voucher Quota</th><th>Duration</th><th>Byte Limit</th><th>Created Time</th><th>Expire Time</th><th>Description</th><th>Operations</th></tr> <tr> <td>Guests Voucher</td><td>0/100</td><td>6d 3h 24min</td><td>5GB/Per Voucher</td><td>2025/03/14 16:39:20</td><td>2025/03/21 16:39:20</td><td>Vouchers for Guests</td><td> <div> <div></div> <div></div> <div></div> <div></div> </div> </td></tr> </table> |               |             |                 |                     |                     |                     |                                                              | Voucher Group Name | Voucher Quota | Duration | Byte Limit | Created Time | Expire Time | Description | Operations | Guests Voucher | 0/100 | 6d 3h 24min | 5GB/Per Voucher | 2025/03/14 16:39:20 | 2025/03/21 16:39:20 | Vouchers for Guests | <div> <div></div> <div></div> <div></div> <div></div> </div> |
| Voucher Group Name                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Voucher Quota | Duration    | Byte Limit      | Created Time        | Expire Time         | Description         | Operations                                                   |                    |               |          |            |              |             |             |            |                |       |             |                 |                     |                     |                     |                                                              |
| Guests Voucher                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0/100         | 6d 3h 24min | 5GB/Per Voucher | 2025/03/14 16:39:20 | 2025/03/21 16:39:20 | Vouchers for Guests | <div> <div></div> <div></div> <div></div> <div></div> </div> |                    |               |          |            |              |             |             |            |                |       |             |                 |                     |                     |                     |                                                              |

*Voucher page print or download*

#### Using Vouchers in Captive Portal:

1. When creating a **Splash Page**, enable the **Voucher Login** option.
2. Assign the splash page to a **Captive Portal Policy**.
3. Apply the policy to a **Wi-Fi SSID**.
4. Users connecting to the SSID will be prompted to enter a valid voucher code for authentication.

## USB Application

### USB Dongle

The **USB Dongle** page is used to detect whether a supported USB dongle is connected to the GWN7072 and to display basic dongle/SIM status. This page is intended for detection and status verification. Internet access configuration using the dongle (USB WAN) is configured elsewhere.

USB Dongle

admin

It is recommended to use USB dongle with hardware version V1.3A or higher.



No USB Dongle Device Detected

Detection

When no dongle is connected, or the device is not recognized, the page displays **No USB Dongle Device Detected**. Click **Detection** to scan for a connected dongle.

**Important notes:**

- USB dongle detection is supported on the **primary router (main unit)**.
- This page is for detection/status only. To use the dongle as an internet uplink, configure **USB WAN** under **Advanced -> Internet Settings -> Internet Settings**. USB WAN options are displayed only after the dongle is inserted and detected.

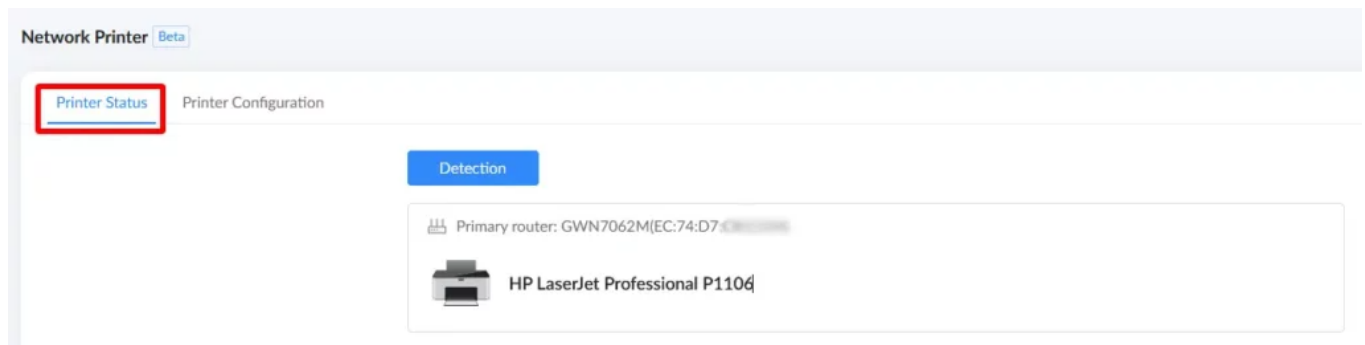
To verify operation quickly, the practical flow is: connect the dongle to the primary router -> open **USB Dongle** -> click **Detection** -> confirm the dongle and SIM status are shown -> then proceed to USB WAN configuration if an internet uplink is required.

## Network Printer (Beta)

The **Network Printer** feature allows the GWN7072 to detect a USB printer and share it with users on the network. Availability depends on the printer being physically connected to the router.

### Printer Status

The **Printer Status** tab is used to detect and display connected USB printers. Click **Detection** to scan for a connected printer. When a printer is detected, it appears in the list under the primary router, showing the printer model (for example, **HP LaserJet Professional P1106**).



Network Printer Beta

### Printer Configuration

The **Printer Configuration** tab is used to enable network printing and define how clients access the shared printer. Network printing is only available when a printer is connected, and the network printing function works only after connecting a printer to the selected device node.

Network Printer
Beta

Printer Status
Printer Configuration

Network Printing
Printer Not Connected

Device Node
GWN7062M
Primary

Protocol
Auto
LPR
Raw TCP

LPR Port
515

Raw Port
9100
Default 9100, range 9100-9102

Allow WAN Access

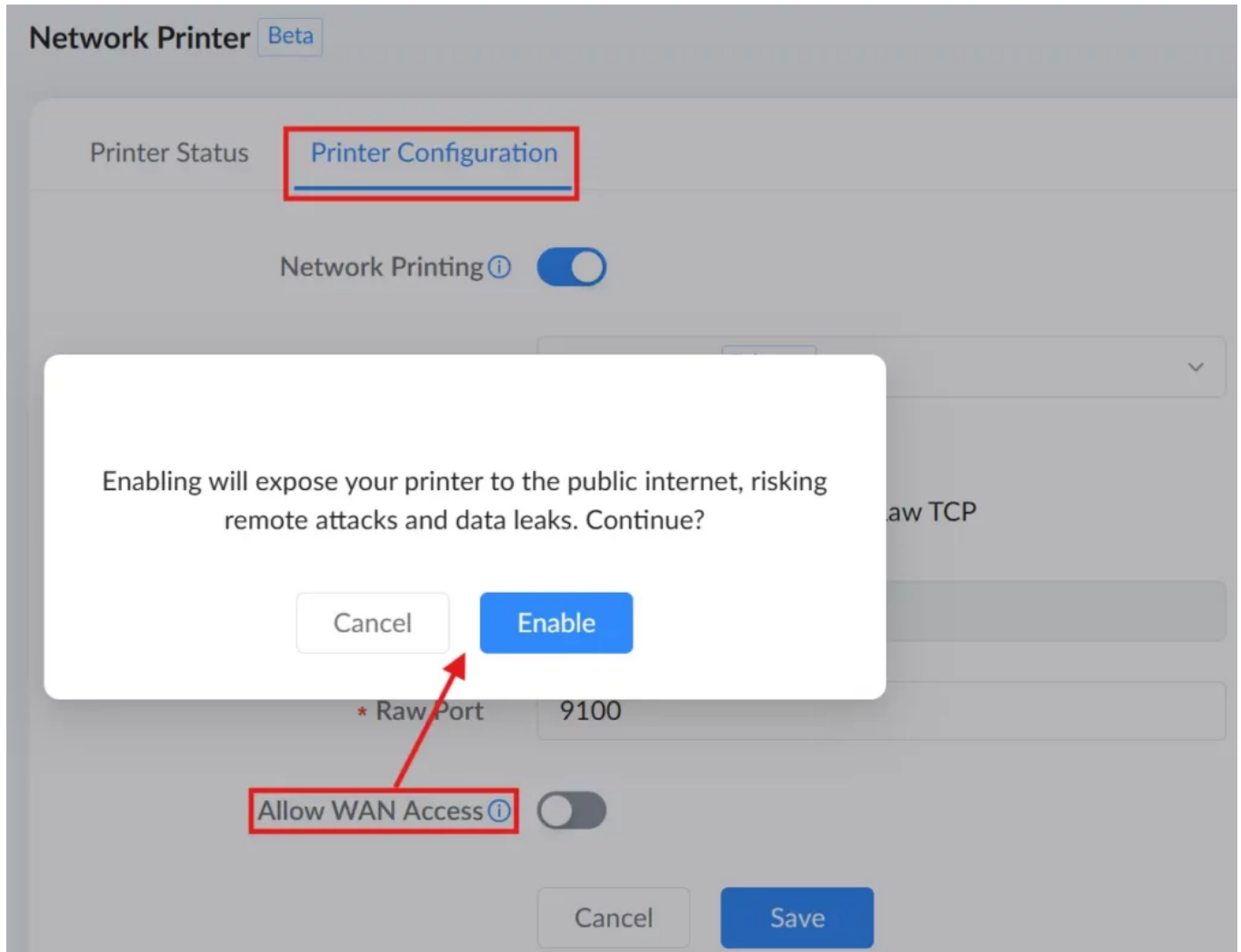
Cancel
Save

Printer Configuration

The following table describes the available settings.

| Setting          | Description                                                                                                                                                                             |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network Printing | Enables or disables the network printer sharing service. Network printing is only available when a printer is connected.                                                                |
| Device Node      | Selects the device node to which the printer is connected. Network printing works only after connecting a printer to the selected device node.                                          |
| Protocol         | Selects the printing protocol used by clients. Available options: Auto, LPR, and Raw TCP.                                                                                               |
| LPR Port         | Sets the LPR port used when LPR is selected. The default value is 515.                                                                                                                  |
| Raw Port         | Sets the port used when Raw TCP is selected. The default value is 9100 (range 9100-9102).                                                                                               |
| Allow WAN Access | Allows devices on the internet to access the printer using the WAN IP address or domain name. Enabling this option exposes the printer to the internet and may increase security risks. |

When enabling **Allow WAN Access**, the system displays a warning message indicating that the printer may be exposed to the internet, with potential risks such as attacks and data leaks.



*Allow WAN Access*

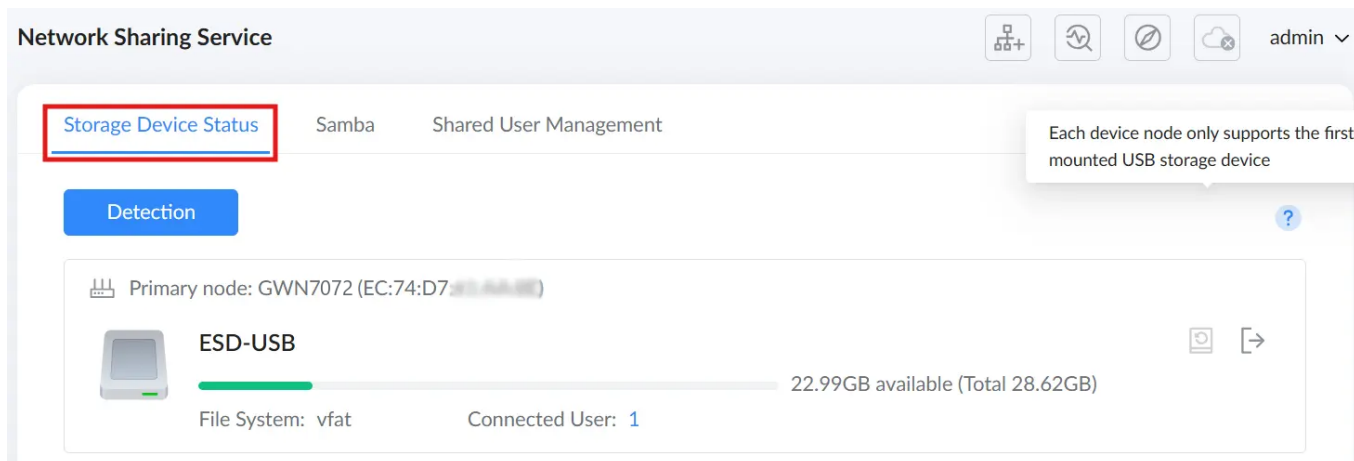
**Security note:** Enabling WAN access makes the printer reachable from outside the local network. Only enable this option when necessary, and ensure appropriate security controls are in place.

## Network Sharing Service

The **Network Sharing Service** feature allows the GWN7072 to detect a USB storage device and share it over the network using Samba (SMB). It also provides user management to control who can access the shared storage and what permissions they have.

## Storage Device Status

The **Storage Device Status** tab is used to detect and display connected USB storage devices. Click **Detection** to scan for a connected storage device. When a storage device is detected, the page displays its status and basic information such as storage capacity, file system format, and the currently connected user.

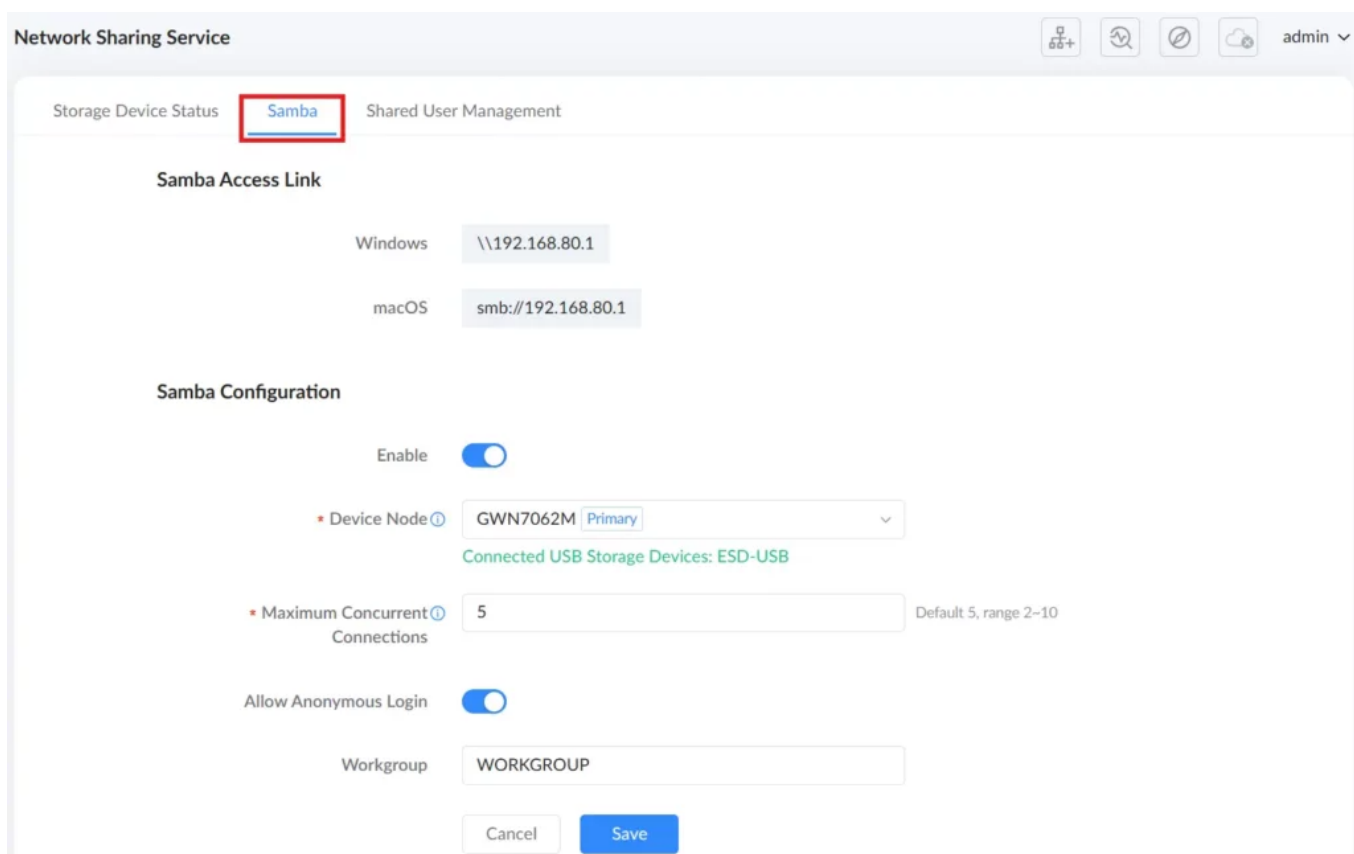


Storage Device Status

**Important note:** Each device node only supports the **first mounted USB storage device**. If multiple USB storage devices are mounted on the same node, only the first mounted device can be used by the sharing service.

## Samba

The **Samba** tab is used to enable SMB file sharing and provides the access links that clients can use to reach the shared storage.



Samba

The **Samba Access Link** section displays OS-specific access paths after Samba is enabled:

- **Windows:** \\192.168.80.1
- **macOS:** smb://192.168.80.1

The **Samba Configuration** section includes the following settings.

| Setting | Description |
|---------|-------------|
|---------|-------------|

|                                |                                                                                                                                                                            |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Enable                         | Enables or disables Samba (SMB) file sharing for the connected USB storage device.                                                                                         |
| Device Node                    | Selects the device node to which the USB storage device is connected. Shared services only work after connecting a storage device to the selected device node.             |
| Maximum Concurrent Connections | Sets the maximum number of concurrent Samba connections to the USB storage device. When the maximum is reached, additional users cannot connect. Default is 5, range 2-10. |
| Allow Anonymous Login          | Allows clients to access the shared storage without authentication. Use with caution in environments where access control is required.                                     |
| Work Group                     | Sets the SMB workgroup name used for Windows network discovery (default is WORKGROUP).                                                                                     |

Samba Configuration

Shared User Management

The **Shared User Management** tab is used to create and manage users who can access the shared USB storage device. Users can be enabled/disabled, assigned permissions, and edited or deleted.

Network Sharing Service

Storage Device Status

Samba

Shared User Management

AddDelete

Q Username

| Username      | Enable      | Permission   | Operations              |
|---------------|-------------|--------------|-------------------------|
| Shared User 1 | <div></div> | Read & Write | <div></div> <div></div> |

Total: 1

<1>

10 / page

Shared User Management

To add a new shared user, click **Add**, configure the user details, and click **Save**.

Network Sharing Service > Add Shared User

Enable

\* Username

Shared User 1

\* Password

Strong

\* Confirm Password

Permission

Readonly

Read & Write

Cancel

Save

The following options are available when adding a shared user.

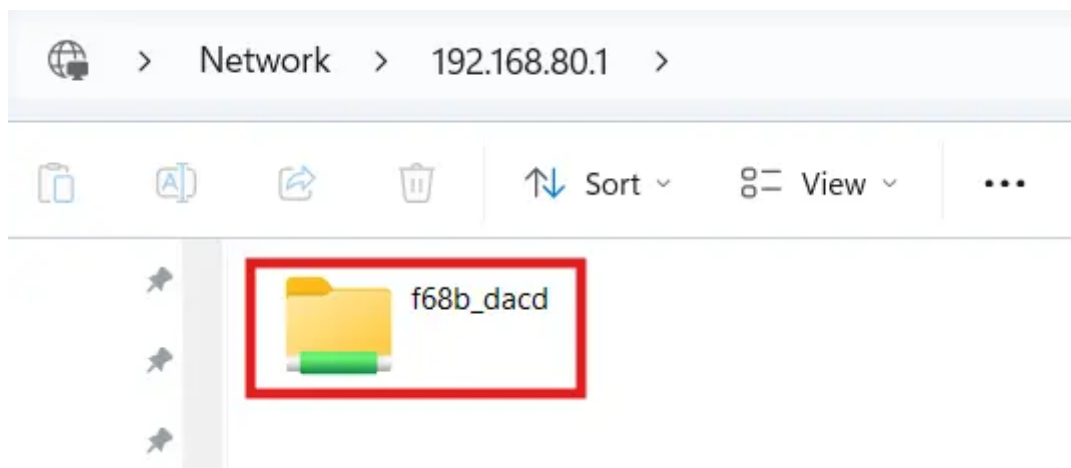
| Setting                     | Description                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------|
| Enable                      | Enables or disables the shared user account.                                                  |
| Username                    | Sets the username used to authenticate when accessing the shared storage.                     |
| Password / Confirm Password | Sets the password for the shared user account. The UI displays a password strength indicator. |
| Permission                  | Defines the access level granted to the user. Available options: Read-only or Read & Write.   |

*Add Shared User*

## Accessing the Shared Storage

After enabling Samba and connecting a USB storage device, users can access the shared storage from their client devices.

For Windows clients, open **File Explorer** and access the router using the Windows Samba path (for example, \\192.168.80.1). The shared storage appears as a folder that can be opened to browse files.



*Accessing the Shared Storage*

## Maintenance

### Upgrade

**GWN7072 note:** The maximum supported firmware image size is 80 MB.

The **Upgrade** section in the router web UI allows users to update the router's firmware to the latest version. Firmware updates provide security patches, performance enhancements, and new features, ensuring the router remains up to date and functions optimally.

To access the **Upgrade page**:

1. Log in to the router's web UI.
2. Navigate to **Maintenance -> Upgrade** in the left menu.
3. The upgrade section will display details about the current firmware version and update options.

#### Steps for Manual Upgrade:

1. **Select the Node Router:**

- Choose either:

- **Primary router (GWN7072)**
- **Sub-router (GWN7062ET)** (if part of a mesh network)

## 2. Upload the Firmware File:

- Click **Upload** to select the firmware file.
- Ensure the file is in .bin format.

## 3. Click Upgrade to start the firmware update process.

**Note:** Do not power off or disconnect the router during the update process.

The screenshot shows a web interface titled "Upgrade". At the top right, there are icons for user profile, settings, and a dropdown menu labeled "admin". The main content area displays router information for "GWN7062M" with a "Detect New Version" button. Below this, a "Mesh" section shows "GWN7062ET\_43F0". The "Upgrade via Manual Upload" section includes a "Node Router" dropdown set to "Primary router(GWN7062M)" and an "Upgrade" button. The "Automatic Upgrade" section features a toggle switch for "Automatic Upgrade" which is turned on. It also shows the "Router Current Time" as "2025/10/08 18:39:21". The "Upgrade Time" is set from "00:00" to "01:00", and the "Frequency" is set to "Weekly" on "Sunday". At the bottom, there are "Cancel" and "Save" buttons.

*Upgrade page*

## Steps to Enable Automatic Upgrade:

1. **Toggle ON** the **Automatic Upgrade** option.
2. **Set Upgrade Time** - Define the time range for the update.
3. **Choose Frequency:**

- **Weekly** - Select the day of the week (e.g., Sunday).
- **Monthly** - Choose a specific day of the month.

## 4. Click Save to apply the settings.

## Benefits of Automatic Upgrade:

- Ensures the router stays up to date without manual intervention.
- Reduces downtime by scheduling updates during non-peak hours.

Upgrade



GWN7062M

Current Version: 1.0.1.22

Detect New Version

Mesh

GWN7062ET\_43F0

Upgrade via Manual Upload

Node Router

Primary router(GWN7062M)

Upload firmware file to update  
(.bin)

Upgrade

Automatic Upgrade

Automatic Upgrade

Router Current Time

2025/10/31 17:54:48

Upgrade Time

00:00 → 01:00

Frequency

Weekly

Monthly

Sunday

Cancel

Save

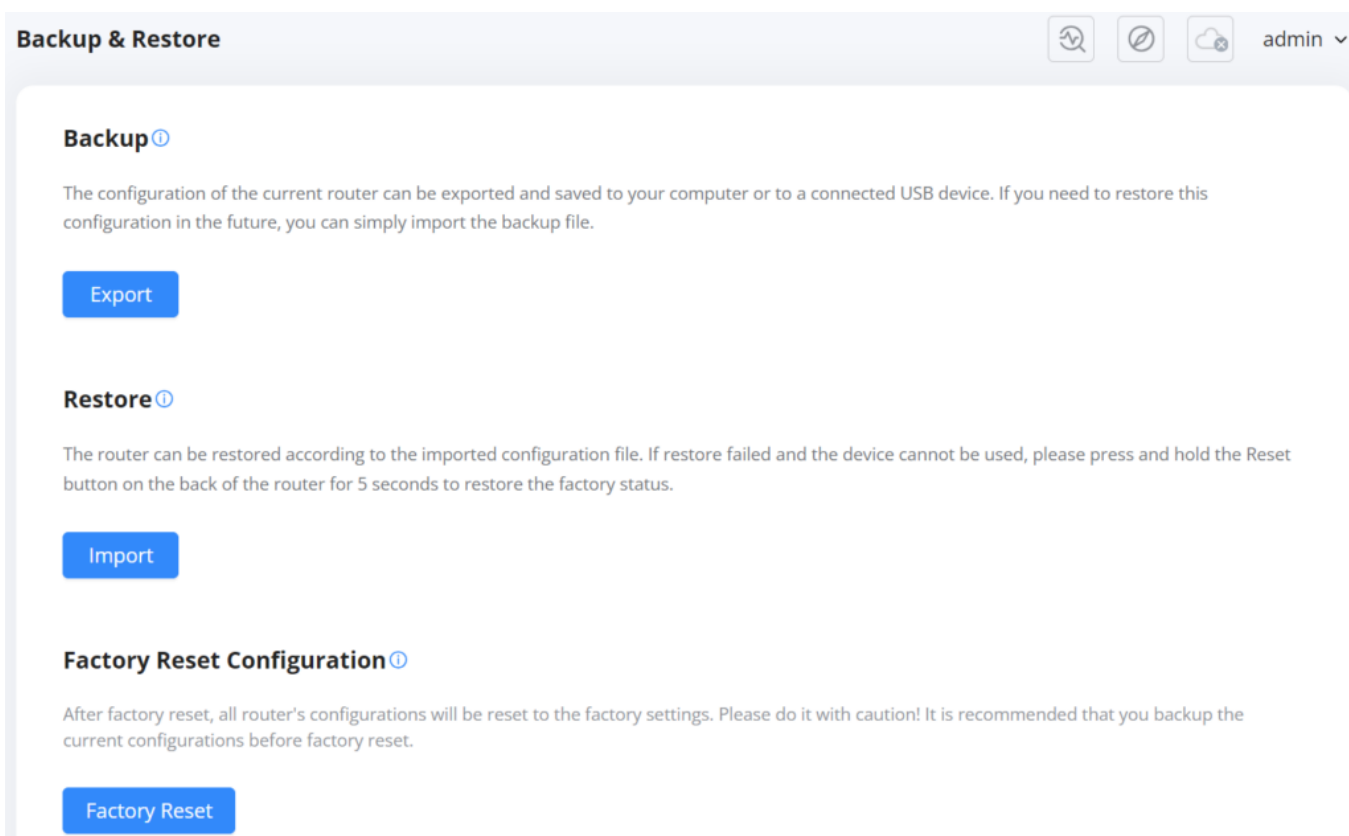
Upgrade Detect New Firmware

## Backup & Restore

The **Backup & Restore** section in the router allows users to save, restore, and reset the router's configuration. This feature ensures that users can preserve their network settings, recover from misconfigurations, and restore factory defaults when necessary.

To access **Backup & Restore**:

1. Log in to the router's web UI.
2. Navigate to **Maintenance -> Backup & Restore** in the left menu.
3. The page will display options to **Export, Import, or Factory Reset** the configuration.



#### Backup Restore

4. The **Backup** function allows users to save the current router configuration to a local computer or a USB device.

**Note:** For security and operational purposes, please be aware that the backup .bin file does not include the following settings. These will need to be reconfigured manually if the device is restored:

- **Mesh Network Configurations:** Any configured Mesh network settings are excluded. Consequently, sections in the user interface that display Mesh nodes (such as the Network Map) will appear empty until the Mesh network is reconfigured.
- **Captive Portal Vouchers:** All generated vouchers used for Captive Portal authentication will not be saved.
- **TR-069 Credentials:** The connection request username, password, and port settings used for TR-069 remote management are excluded.
- **GWN Manager Settings:** The cloud management access settings (Manager Settings) are not retained in the backup file.
- **Maintenance Tunnel:** Any active maintenance tunnel configurations used for remote diagnostics will not be backed up.

#### Steps to Backup Configuration:

1. Click the **Export** button.
2. The router will generate a backup file (.bin) containing the current configuration.
3. Save the file to your computer or an external storage device.

#### Use Case:

- **Before making significant changes** to the router settings.
- **For disaster recovery**, allowing quick restoration of network settings.
- **To replicate configurations** across multiple routers.

2. The **Restore** function allows users to reload a previously saved configuration file.

#### Steps to Restore Configuration:

1. Click the **Import** button.
2. Select the previously saved backup file (.bin) from your computer.
3. The router will load the configuration and apply the settings.

#### Important Notes:

- Restoring a backup **overwrites** the existing configuration.
- If a restore fails and the router becomes unresponsive, **press and hold the physical reset button on the router for 5 seconds** to restore factory settings.
- 3. The **Factory Reset** function resets the router to its default settings, erasing all user configurations.

#### Steps to Perform a Factory Reset:

1. Click the **Factory Reset** button.
2. Confirm the action when prompted.
3. The router will reboot and revert to its original settings.

#### Alternative Reset Method:

- Press and **hold the reset button** on the back of the router for **5 seconds** until the LED indicator blinks.
- The router will reset and restart with factory defaults.

#### Caution:

- **All settings will be lost** after a factory reset.
- It is **highly recommended to perform a backup before resetting** the router.

## Diagnostics

The **Diagnostics** section in the router web UI provides essential troubleshooting tools to monitor system events, diagnose network issues, and capture logs. These tools help administrators identify potential problems, analyze network performance, and perform debugging tasks efficiently.

To access **Diagnostics**:

1. Log in to the router's web UI.
2. Navigate to **Maintenance -> Diagnostics** in the left menu.
3. Select the relevant tab to perform diagnostic actions.

### 1. Log Monitoring

The **Log** tab records and displays system and network activity logs.

#### Features:

- **Time** - Timestamp of logged events.
- **Severity** - Indicates event type (Notice, Warning, Error).
- **Platform** - Identifies whether the log event is local or network-related.
- **Address** - Shows the IP address involved in the event.
- **Log Type** - Categorizes log entries (Operation, Configuration, Security, etc.).
- **Details** - Provides additional information about the event.

#### Exporting Logs:

- Click **Export** to download logs as a CSV file for offline analysis.

#### Use Case:

- Monitor **configuration changes, remote access attempts, and security alerts**.
- Identify **network connectivity issues** and troubleshoot them effectively.

Diagnostics

Log

Ping / Traceroute

One-click Debug

Link Tracking

Export

Start date

- End date

All Levels

All platforms

All log types

Q Details

| Time                | Severity  | Platform | Address            | Log Type  | Details                                     |
|---------------------|-----------|----------|--------------------|-----------|---------------------------------------------|
| 2025-11-03 09:45:47 | Notice    | Local    | IPv4:192.168.5.247 | Operation | action:check firmware ⓘ                     |
| 2025-11-03 09:36:51 | Notice    | Local    | IPv4:192.168.5.247 | Operation | action:login ⓘ                              |
| 2025-11-03 08:44:48 | Warning   | Local    | -                  | Network   | The mesh node GWN7062ET_43F0(ec74...        |
| 2025-11-03 08:41:14 | Notice    | Local    | -                  | Network   | The router WAN2(Port 4) network is con...   |
| 2025-10-31 18:00:46 | Emergency | Local    | -                  | Network   | A failure is detected for the DHCP service  |
| 2025-10-31 18:00:35 | Emergency | Local    | -                  | Network   | The router has no Internet. Please check... |
| 2025-10-31 18:00:35 | Warning   | Local    | -                  | Network   | The router WAN2(Port 4) has no Internet...  |
| 2025-10-31 18:00:16 | Notice    | Local    | -                  | Network   | Router GWN7072(ec74d761aa8e) port...        |
| 2025-10-31 17:54:37 | Notice    | Local    | IPv4:192.168.6.5   | Operation | action:check firmware ⓘ                     |

Total: 252

<

1

2

3

...

26

>

10 / page

Go to

Diagnostics log page

## 2. Ping / Traceroute

This tool helps verify network connectivity and diagnose latency or packet loss.

### Steps to Use Ping / Traceroute:

1. Select **Diagnostic Tools**:
  - **Ping (IPv4/IPv6)** - Checks if a device is reachable.
  - **Traceroute** - Traces the path packets take to a destination.
2. Enter **Target IP Address / Hostname**.
3. Select **Interface** (Auto by default).
4. Click **Start** to run the test.

### Results Interpretation:

- **Low latency & no packet loss** -> Connection is stable.
- **High latency or packet loss** -> Possible network congestion or faulty routing.

### Use Case:

- Verify **Internet connectivity** to external sites (e.g., 1.1.1.1).
- Diagnose **delays and packet loss** in internal or external network paths.

Diagnostics

admin

Log
Ping / Traceroute
One-click Debug
Link Tracking

\* Node Router
Primary router(GWN7072)

\* Diagnostic Tools
Ping (IPv4)

\* Target IP Address / Hostname
1.1.1.1

Interface
Auto (Default)

Start

Diagnostic Result

```

PING 1.1.1.1 (1.1.1.1): 56 data bytes
64 bytes from 1.1.1.1: seq=0 ttl=52 time=34.600 ms
64 bytes from 1.1.1.1: seq=1 ttl=52 time=54.649 ms
64 bytes from 1.1.1.1: seq=2 ttl=52 time=71.415 ms
64 bytes from 1.1.1.1: seq=3 ttl=52 time=35.311 ms
64 bytes from 1.1.1.1: seq=4 ttl=52 time=40.248 ms

--- 1.1.1.1 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 34.600/47.244/71.415 ms

```

Diagnostics PingTraceroute

### 3. One-click Debug

This feature automatically **collects system logs and diagnostic data** in a compressed file.

#### Steps to Generate Debug File:

1. Click **Redebug** to start data collection.
2. Once completed, a **debugging result file** appears.
3. Click the **download icon** to save the debug file.

#### Use Case:

- Share the debug file with **technical support** for advanced troubleshooting.
- Identify **firmware issues, network crashes, or system failures**.

Diagnostics

admin

Log
Ping / Traceroute
One-click Debug
Link Tracking

\* Node Router
Primary router(GWN7072)

Redebug

Debugging result

File Name:core.onekeydebug.ec74d761aa8e.GWN7072.1.0.1.22.4473dcd3a14ce0c6935b9f11a346d054.tar.gz
Last Modified: 2025-11-03 09:59:24

Diagnostics One click Debug

### 4. Link Tracking

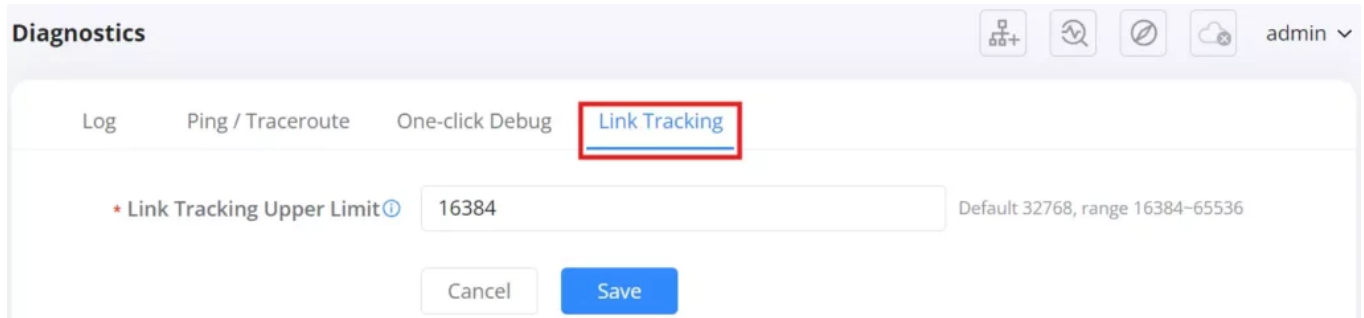
Monitors and controls **network connection limits**.

#### Configuration:

- **Link Tracking Upper Limit** - Adjusts the maximum number of tracked links.
- Default limit: **16384** (adjustable up to **32768**).

#### Use Case:

- Helps optimize **bandwidth monitoring**.
- Prevents excessive **logging overload**.



The screenshot shows the 'Diagnostics' section of a router's web interface. The 'Link Tracking' tab is selected and highlighted with a red box. Below the tabs, there is a configuration area for 'Link Tracking Upper Limit'. The current value is 16384, and the default is 32768 with a range of 16384-65536. There are 'Cancel' and 'Save' buttons at the bottom of the configuration area.

*Diagnostics Link Tracking*

## Intelligent Detection

The **Intelligent Detection** feature in the router helps users diagnose and troubleshoot various network and system performance issues. This tool provides a comprehensive analysis of security, connectivity, internet failures, and mesh node connections, ensuring optimal router performance.

To access **Intelligent Detection**:

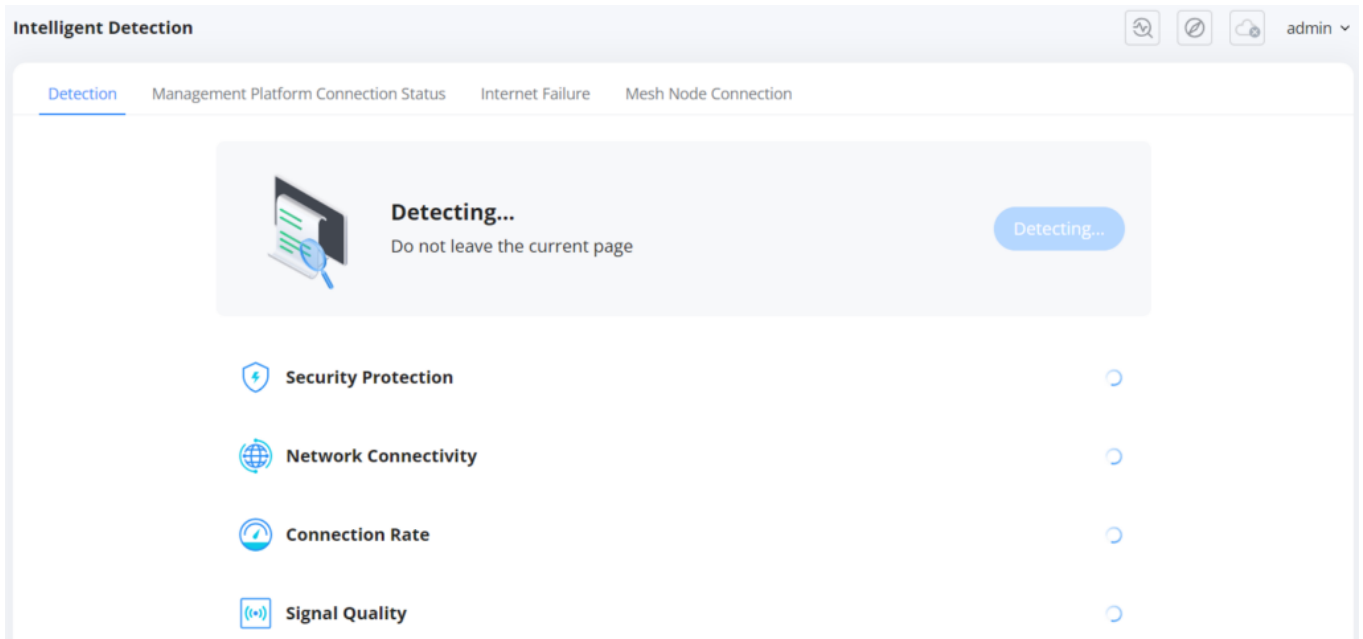
1. Log in to the router's web UI.
2. Navigate to **Maintenance -> Intelligent Detection**.
3. Select the relevant tab to perform detection tests.

### 1. Detection Tab

The **Detection** tab provides a complete **network security and performance check**.

#### How to Run a Detection Test:

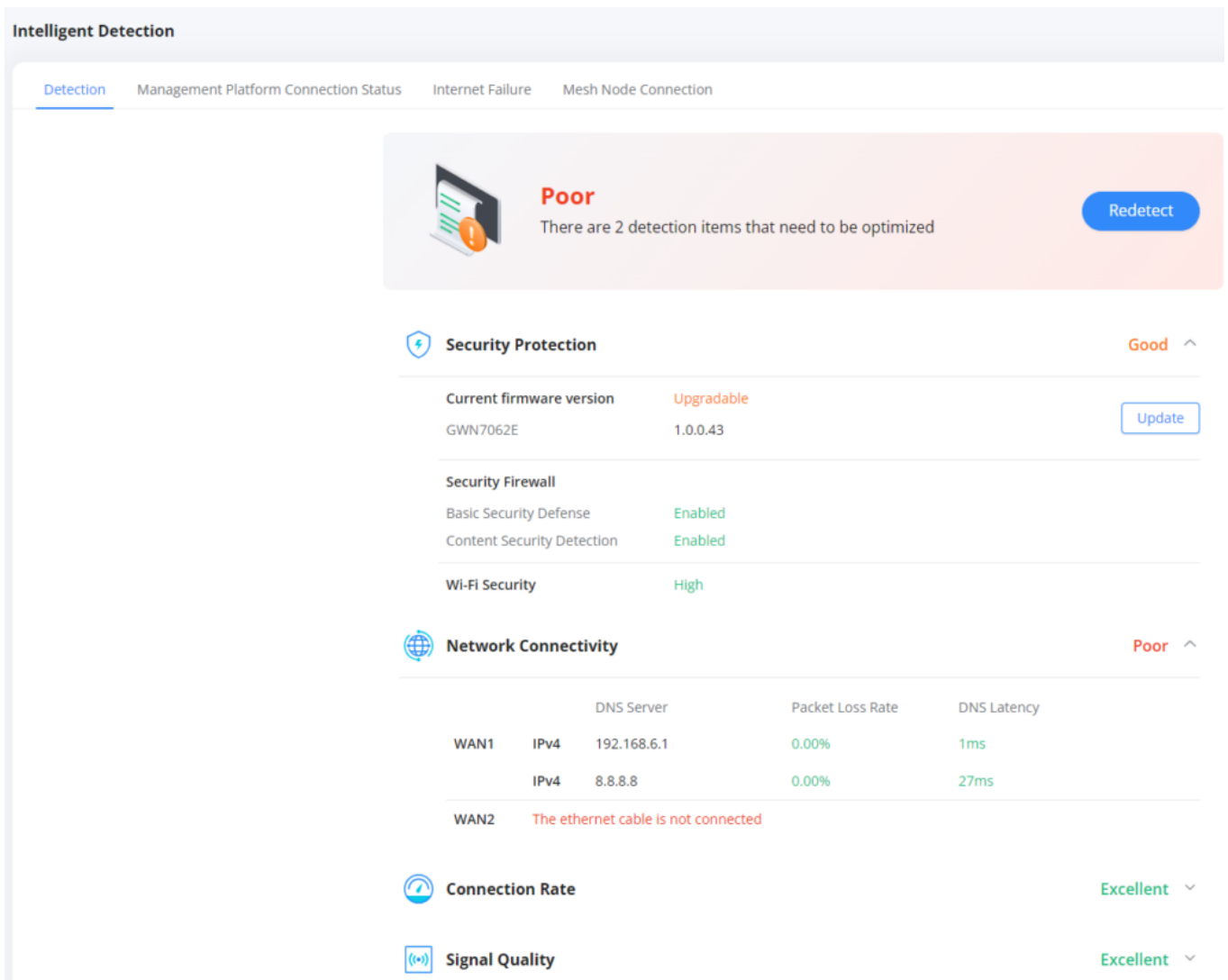
1. Click the **Detection** button.
2. The router runs diagnostics on the following areas:
  - **Security Protection** - Checks for firmware updates, firewall settings, and Wi-Fi security.
  - **Network Connectivity** - Analyzes DNS latency and packet loss.
  - **Connection Rate** - Monitors the status of network ports.
  - **Signal Quality** - Evaluates the Wi-Fi channel quality.
3. Once completed, the test results display a **rating** (e.g., **Poor, Good, Excellent**).
4. Click **Redetect** to run the test again.



Intelligent Detection page

### Use Case:

- Quickly assess **network security and connectivity**.
- Detect issues such as **outdated firmware, firewall misconfigurations, or packet loss**.



## 2. Management Platform Connection Status

This tab tests the router's connection with the **Grandstream Device Management System (GDMS)**.

### How to Run a Connection Detection Test:

1. Click **Detection** to start the connection test.
2. The system verifies different **connection phases**:
  - **Preparation Phase**
  - **Domain Name Resolution Phase**
  - **TCP Connection Phase**
  - **TLS Connection Phase**
  - **HTTPS Transaction Phase**
  - **WebSocket Upgrade Phase**
3. If all phases are successful, the **connection is stable**.

**Intelligent Detection**

[Detection](#) [Management Platform Connection Status](#) [Internet Failure](#) [Mesh Node Connection](#)

**Management Platform / Address**

 GDMS Networking

Status Not Registered

Detection

Intelligent Detection Management Platform Connection Status Tab

### Use Case:

- Ensures the router can **connect to GDMS** for **remote management and monitoring**.
- Identifies issues preventing the router from establishing a **secure GDMS connection**.

## Intelligent Detection

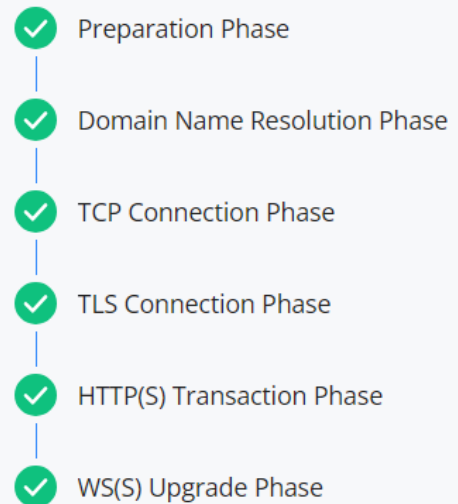
Detection

Management Platform Connection Status

Internet Failure

Mesh Node Connection

### Connection Detection



Back

Redetect

*Intelligent Detection Management Platform Connection Status Tab*

### 3. Internet Failure Detection

This tab diagnoses **network failures** for **WAN (Internet)** and **Client Devices**.

#### Running a WAN Connection Test:

1. Select **WAN** and choose the desired interface (**WAN1 / WAN2**).
2. Click **Start**.
3. The test checks for:
  - IPv4 connectivity.
  - IPv6 service availability.
  - DNS response times.

**Example Issue:** If IPv6 is disabled, the test will prompt the user to check IPv6 settings.

## Intelligent Detection

Detection

Management Platform Connection Status

Internet Failure

Mesh Node Connection

WAN

Client

\* Interface

☒ WAN1

☐ WAN2

Start

### Result

#### IPv4

✓ The network is working properly

#### IPv6

! IPv6 network service is not enabled

1. Check IPv6 configuration

*Intelligent Detection Internet Failure tab*

### Running a Client Connection Test:

1. Select **Client** and choose a connected device from the list or enter a **MAC address manually**.
2. Click **Start**.
3. The system verifies:

- If the client device has been active in the last **30 minutes**.
- If the device is experiencing connectivity issues.

**Example Issue:** If a client has no connection logs, it may indicate a **disconnect or network problem**.

### Use Case:

- Detects **Internet connectivity failures** in WAN/LAN.
- Troubleshoot **client device disconnections**.

## Intelligent Detection

Detection

Management Platform Connection Status

Internet Failure

Mesh Node Connection

WAN

Client

Client to be detected

☒ Select from clients

☐ Enter MAC address manually

Ain (06:DE:36:67:D6:8D)

Start

### Result



**Abnormality**

1.No connection information for this client in the past 30 minutes

*Intelligent Detection Internet Failure*

## 4. Mesh Node Connection

This tab checks the status of connected **mesh nodes** in a multi-router setup.

### Running a Mesh Node Detection Test:

1. Click **Detect**.
2. The router scans for all connected **mesh nodes**.
3. Results display:
  - **Mesh node device name.**
  - **Signal strength.**
  - **Connection status (Connected/Disconnected).**

### Use Case:

- Ensures **mesh nodes are properly connected.**
- Troubleshoot **mesh coverage issues.**

## Intelligent Detection

Detection

Management Platform Connection Status

Internet Failure

Mesh Node Connection

Redetect



GWN7062E(EC:74:D7:5D:A8:1C)

Signal Strength:

Status: ● Connected

Completed

*Intelligent Detection Mesh Node Connection*

## TR-069

TR-069 (Technical Report 069) is a protocol for **remote management** of network devices, including routers. It allows **Auto-Configuration Servers (ACS)** to remotely configure, update firmware, monitor performance, and troubleshoot network devices without requiring manual intervention. This feature is commonly used by ISPs and IT administrators to manage a large number of routers remotely.

### TR-069

TR-069

ACS URL ⓘ

ACS Username

ACS Password ⓘ

Periodic Inform

If enabled, the router will send connection inform packets to ACS regularly.

\* Periodic Inform Interval (sec)

86400

Default 86400

Connection Request Username ⓘ

Connection Request Password ⓘ

\* Connection Request Port ⓘ

7547

Default 7547, range 1~65535

CPE Cert File ⓘ

CPE Cert Key ⓘ

Cancel

Save

TR 069

### TR-069 Configuration Options:

#### 1. Enabling TR-069

- **TR-069 Toggle** - Enables or disables the TR-069 remote management feature.

#### 2. Auto-Configuration Server (ACS) Settings

- **ACS URL** - The URL of the Auto-Configuration Server (ACS) that manages the router.
- **ACS Username & Password** - The credentials used by the ACS to authenticate and communicate with the router.

#### 3. Periodic Inform

- **Periodic Inform Toggle** - When enabled, the router will periodically send status updates to the ACS.
- **Periodic Inform Interval (sec)** - Defines how frequently (in seconds) the router should send inform messages to the ACS. The default is **86400 seconds (24 hours)**.

#### 4. Connection Request Settings

- **Connection Request Username & Password** - Credentials required for the ACS to initiate a request to the

router.

- **Connection Request Port** - Defines the port used for ACS requests. The default is **7547** (configurable between **1** and **65535**).

## 5. Certificate Authentication

- **CPE Cert File** - Upload a certificate file to enable encrypted authentication between the router and ACS.
- **CPE Cert Key** - Upload a private key to establish a secure connection.

### Use Cases for TR-069:

- **Remote Configuration** - Allows ISPs and administrators to configure settings remotely.
- **Firmware Management** - Enables automated firmware updates without user intervention.
- **Monitoring & Diagnostics** - Collects real-time router performance data for troubleshooting.
- **Security & Compliance** - Ensures routers follow security policies through automated management.

## System

### Basic Settings - System

The **Basic Settings** section in the router web UI allows users to configure fundamental system settings such as time synchronization, language preferences, LED status, and automatic reboot scheduling. These settings help ensure accurate timekeeping, maintain optimal device behavior, and improve overall network management.

To access the **Basic Settings**:

1. Log in to the router's web UI.
2. Navigate to **System -> Basic Settings** in the left menu.
3. The page will display options to configure system settings as described below.

## Basic Settings

### Basic Settings

Device Current Time 2025/03/14 14:43:59

Country / Region Morocco

Time Zone (UTC+01:00) Brussels,Copenhagen,Madrid,Paris

NTP Server 0.pool.ntp.org

1.pool.ntp.org

Add

Language English

### LED Indicator

LED Indicator ☒ Always On ☐ Always Off ☐ Disabled within the specified time

### Reboot Scheduly

Reboot Scheduly ☒

Reboot Time 00:00 → 01:00

Frequency ☒ Weekly ☐ Monthly

Sunday

Cancel

Save

System Basic Settings page

## Basic Settings Options:

### Device Current Time

- Displays the current system time of the router.
- This time is determined by the configured time zone and NTP server settings.

### Country/Region

- Allows users to select the country or region where the router is deployed.
- This setting helps adjust time zone and regulatory compliance settings accordingly.

### Time Zone

- Select the correct **UTC offset** from the dropdown menu.
- Ensures proper time synchronization for logs, scheduling, and other time-dependent services.

### NTP Server

- The **Network Time Protocol (NTP) Server** synchronizes the router's time automatically.
- Users can specify one or more NTP servers (e.g., 0.pool.ntp.org, 1.pool.ntp.org).
- Clicking the **Add (+)** button allows additional NTP servers to be added.

### Language

- Allows users to select the interface language.
- The default setting is **English**.

### LED Indicator Settings

- **Always On** - The router's LED indicators remain active at all times.
- **Always Off** - The LED indicators are completely disabled.
- **Disabled within the specified time** - The LEDs will be turned off during a specified time period to reduce light pollution.

### Reboot Schedule

This feature allows users to **automatically reboot** the router at a scheduled time, ensuring optimal performance by clearing temporary data and refreshing system processes.

- **Enable/Disable Toggle** - Users can enable or disable the scheduled reboot.
- **Reboot Time** - Defines the time frame for the scheduled reboot.
- **Frequency**:
  - **Weekly** - The router will reboot on a selected day of the week.
  - **Monthly** - The router will reboot on a specific day of the month.
- **Day Selection** - If **Weekly** is selected, users can choose the day (e.g., **Sunday**).

### Access Management

The **Access Management** section of the router allows users to configure authentication, user accounts, remote access control, and security policies to protect and manage administrative access. These settings enhance security by enforcing strong password policies, restricting unauthorized access, and enabling remote management through secure protocols.

To access **Access Management** settings:

1. Log in to the router's web UI.
2. Navigate to **System -> Access Management** in the left menu.
3. Select the relevant tab to configure access settings.

### Admin Password

The **Admin Password** tab allows administrators to change the default password for security purposes.

#### Options:

- **Old Password** - Enter the current admin password.
- **New Password** - Set a new password (must be **8-64 characters** long).
- **Confirm New Password** - Re-enter the new password for confirmation.

#### Best Practices:

- Use a **strong password** with a mix of uppercase letters, numbers, and symbols.
- Change the default password **immediately after setup** for security.
- Regularly update passwords to reduce security risks.

**Access Management** admin ▾

Admin Password User Account Access Control Manager Settings Passwordless Remote Access

\* Old Password

\* New password  8~64 characters

\* Confirm new password

Access management Admin password

## User Account

The **User Account** tab allows the creation of a secondary user account with limited access.

### Options:

- **Enable** - Toggle to enable or disable the user account.
- **User Password** - Set a password for the secondary user.
- **Confirm User Password** - Re-enter the password to confirm.

### Key Notes:

- Once enabled, the user can log in using the username **"user"**.
- This account has **restricted privileges** compared to the administrator.
- Useful for allowing **network monitoring** without granting full access.

**Access Management**

Admin Password User Account Access Control Manager Settings Passwordless Remote Access

**Enable** ☒ After enabled, a user account is created. You can use the username "user" to access the router

\* User Password  8~64 characters

\* Confirm user password

Access management User Account

## Access Control

The **Access Control** tab manages administrative access to the router from the LAN and WAN.

### LAN Side Settings:

- **HostName** - Displays the router's local domain name.
- **HTTPS Port** - Default is **443** (Range: 1-65535).

### WAN Side Settings:

- **Access through WAN** - Toggle to enable remote access over the Internet.
- **HTTPS Port** - Specifies the port for remote HTTPS access.
- **IP Addresses Allowed to be Accessed** - Restrict remote access to specific IP addresses. (**Note:** if left empty, all IP Addresses are allowed.)

#### Security Recommendations:

- **Disable WAN access** if remote management is unnecessary.
- Change the **default SSH/HTTPS ports** to reduce attack risks.
- **Restrict remote access** to specific IPs whenever possible.

The screenshot shows the 'Access Management' interface with the 'Access Control' tab selected. The 'LAN Side' section includes a 'HostName' field with suggestions and an 'HTTPS Port' field set to 443. The 'WAN' section features a toggle for 'Access through WAN' (enabled), an 'HTTPS Port' field set to 443, and a list of 'IP Addresses Allowed to be Accessed' with two entries: '192.168.5.247' and '192.168.5.97'. The interface also includes 'Cancel' and 'Save' buttons at the bottom.

Access management Access Control

## Manager Settings

This tab allows remote management through **GWN Manager**, Grandstream's on-premises network management platform.

#### Options:

- **Allow DHCP Option 43 to Override Manager Server Address** - When enabled, DHCP Option 43 can override the predefined GWN Manager address.
- **Manage Server Address** - Enter the IP or domain of the GWN Manager server.
- **Manage Server Port** - Default is **8443**.

## Access Management

[Admin Password](#)[User Account](#)[Access Control](#)[Manager Settings](#)[Passwordless Remote Access](#)

Allow DHCP Option 43 to  
Override Manager Server  
Address



Once enabled, the Manager server address assigned by DHCP Option 43 will be used.

Manage Server Address ⓘ

Manage Server Port

8443

Cancel

Save

Access management Manager Settings

## Passwordless Remote Access

This feature allows **remote access without requiring a password** when using **GDMS Networking**, Grandstream's cloud management platform.

### Options:

- **Passwordless Access Toggle** - Enable or disable passwordless login.

### Security Considerations:

- **Enable this feature only if using GDMS Networking** for remote access.
- If security is a concern, it's best to **disable passwordless access** and require authentication.

## Access Management

[Admin Password](#)[User Account](#)[Access Control](#)[Manager Settings](#)[Passwordless Remote Access](#)

Passwordless Access



If enabled, admin password will no longer be required when accessing remotely via GDMS Networking

Cancel

Save

Access management Passwordless Remote Access

## Operation Mode

The router supports three different working modes under the **System -> Working Mode** section, allowing users to deploy the router in various network environments based on their needs:

1. **Router Mode** (Default)
2. **Wireless Relay Mode**
3. **Wireless Bridge Mode**

Each mode affects how the device connects to the upstream network and handles LAN traffic-whether it's routing traffic, rebroadcasting existing Wi-Fi, or serving as a wireless bridge to wired devices.

1. **Router Mode**

This is the default mode. The device connects directly to the Internet via **DHCP, PPPoE, PPTP, L2TP, or Static IP**, then shares that connection with local clients either through Ethernet or Wi-Fi. Users can also add Mesh sub-nodes for broader coverage.

### Usage Example:

Standard internet access with full routing and NAT capabilities. Ideal for homes and offices.

**Operation Mode**

**admin**

**Router Mode**

The device connects to the Internet via DHCP, PPPoE, PPTP, L2TP, or static IP, and shares the network with LAN clients or wireless devices. You can also add mesh nodes to the device to extend Wi-Fi coverage for seamless roaming.

Internet Router Client

**Wireless Relay Mode**

The device wirelessly connects to an existing and internet-connected router, replicates and enhances the connected wireless signal, thereby expanding the coverage of the existing wireless signal.

Main Router Router Client

**Wireless Bridge Mode**

The device wirelessly connects to an existing and internet-connected router, providing smooth wireless networking for wired media devices such as computers, smart TVs, game consoles, DVRs, or media players with wired connections.

Internet Main Router Router Client

Cancel

Save

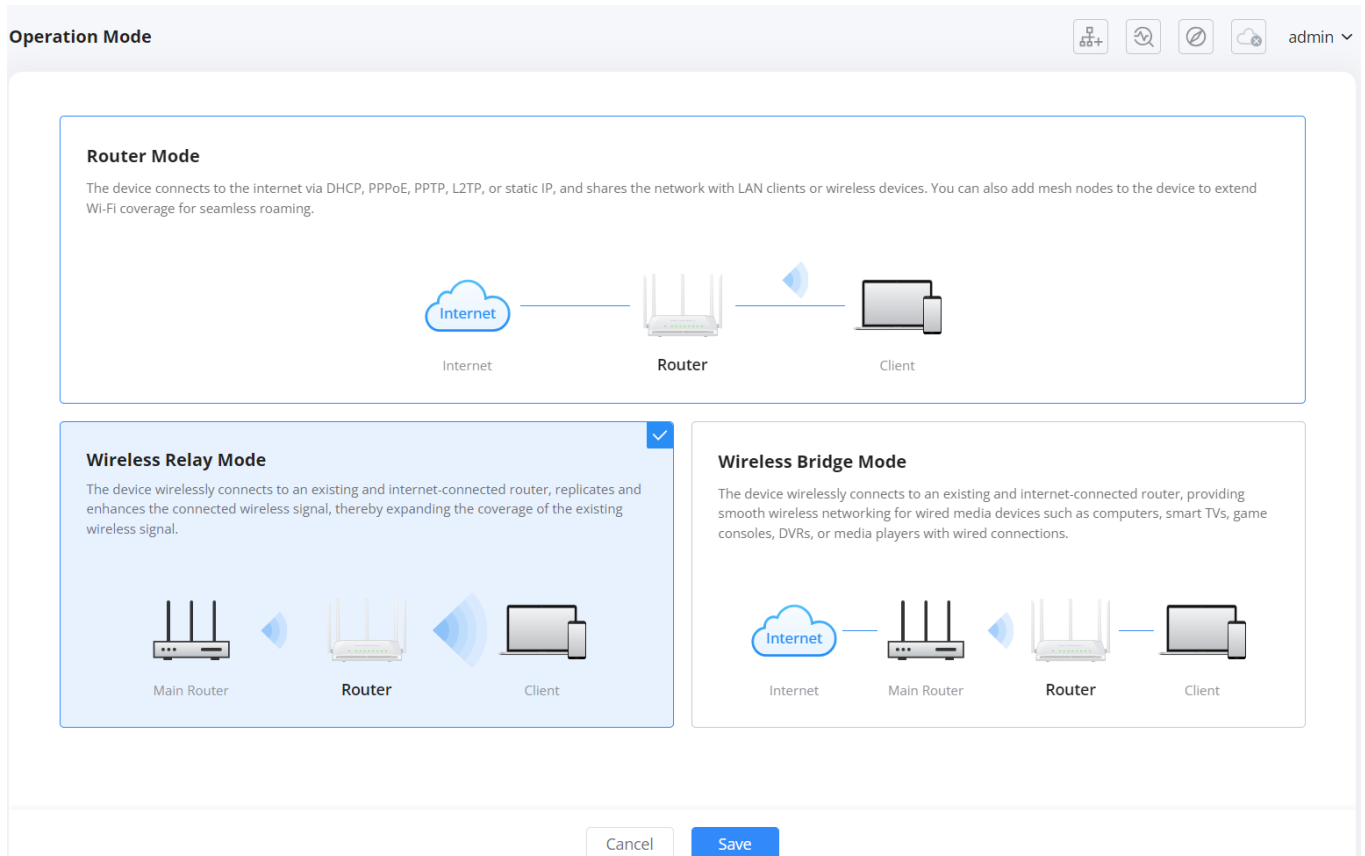
*Working Mode Router mode the default mode*

## 2. Wireless Relay Mode

The router supports Wireless Relay Mode, allowing the device to connect wirelessly to an existing router and extend the wireless coverage. In this mode, all Ethernet ports on the device become LAN ports, and the device rebroadcasts the same SSID (network name) as the source router. Devices connected via LAN will obtain IP addresses from the main router.

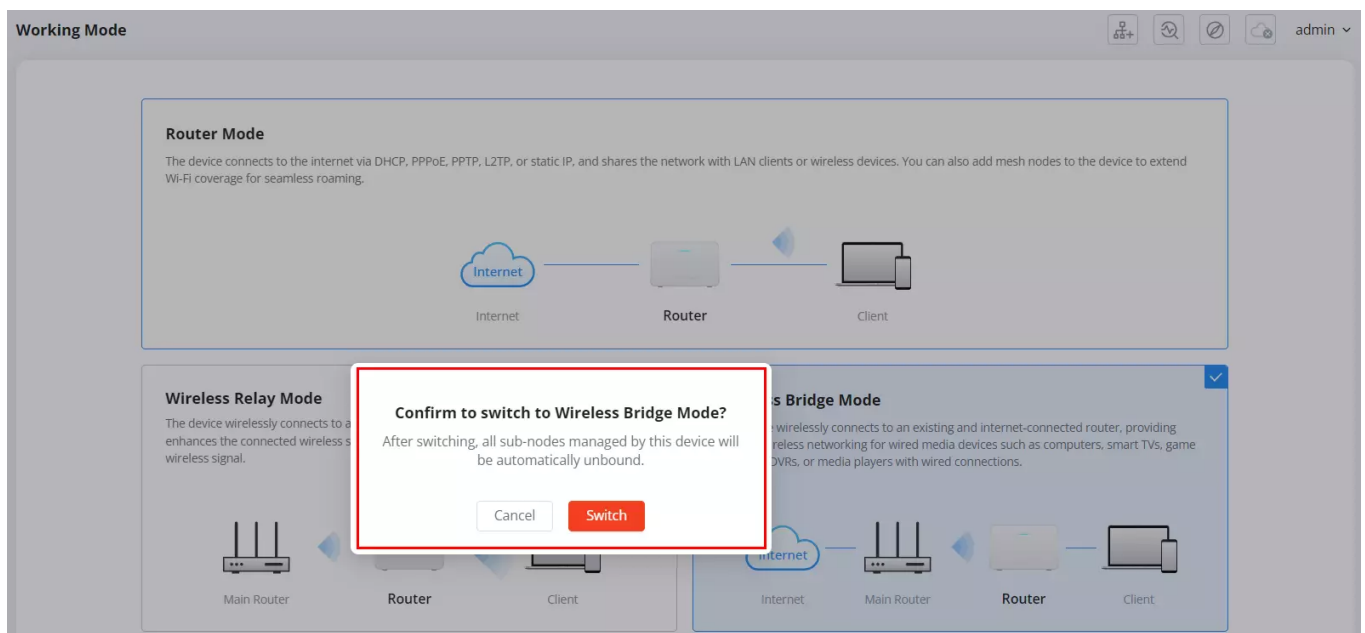
### Steps to Configure Wireless Relay Mode:

**Navigate to Working Mode.** Go to **System -> Working Mode** in the left menu. Select **Wireless Relay Mode** from the available options: Router Mode, Wireless Relay Mode, or Wireless Bridge Mode.



Working Mode page

**Confirmation Prompt:** After selecting Wireless Relay Mode, a confirmation dialog will appear stating: "After switching, all sub-nodes managed by this device will be automatically unbound." Click **Switch** to proceed.



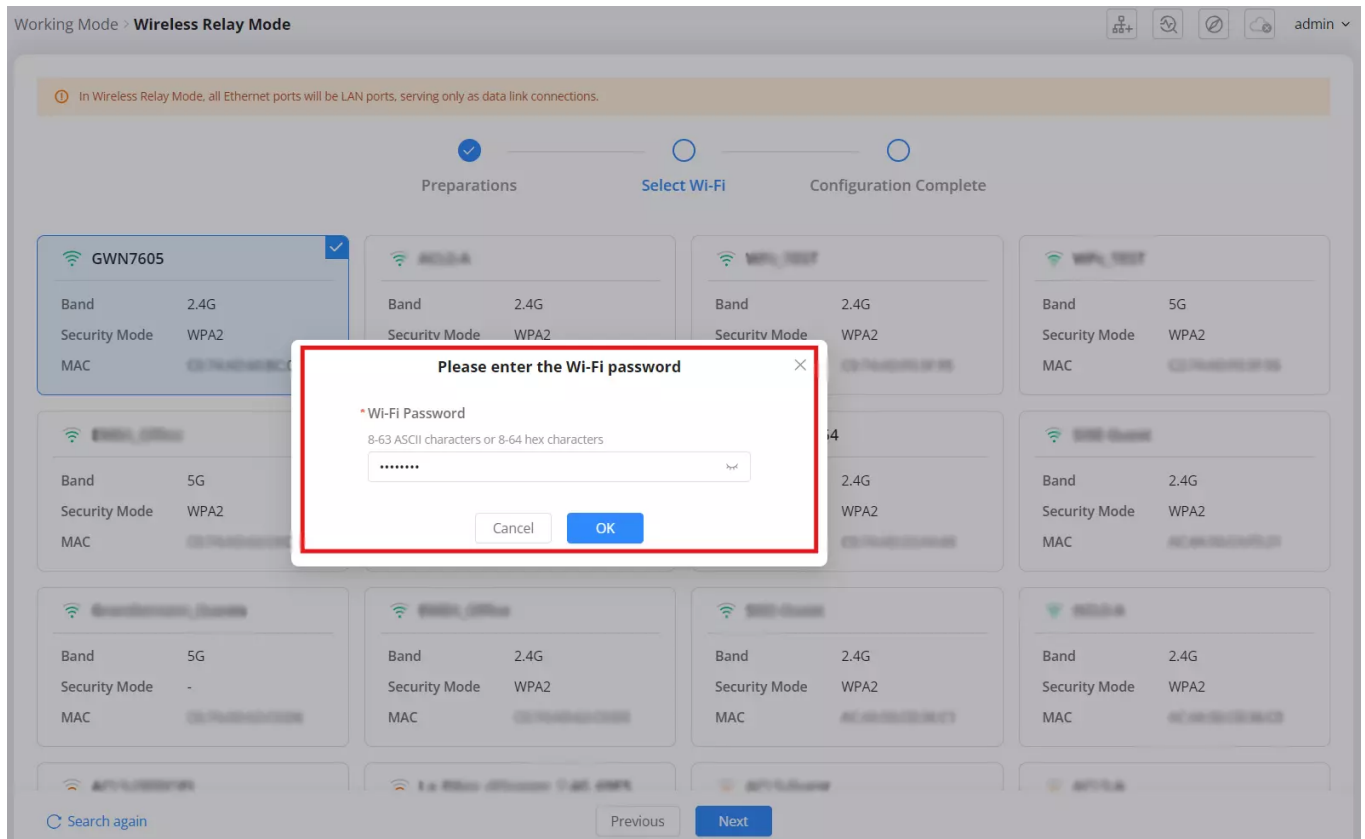
Working Mode Switching Prompt

**Step 1 - Preparations:** The screen will guide you through preparations:

- Ensure a wireless network is available and that this device is placed within signal range.
- Make sure the device is **not** connected to any other network via an Ethernet cable. Click **Next** to continue.

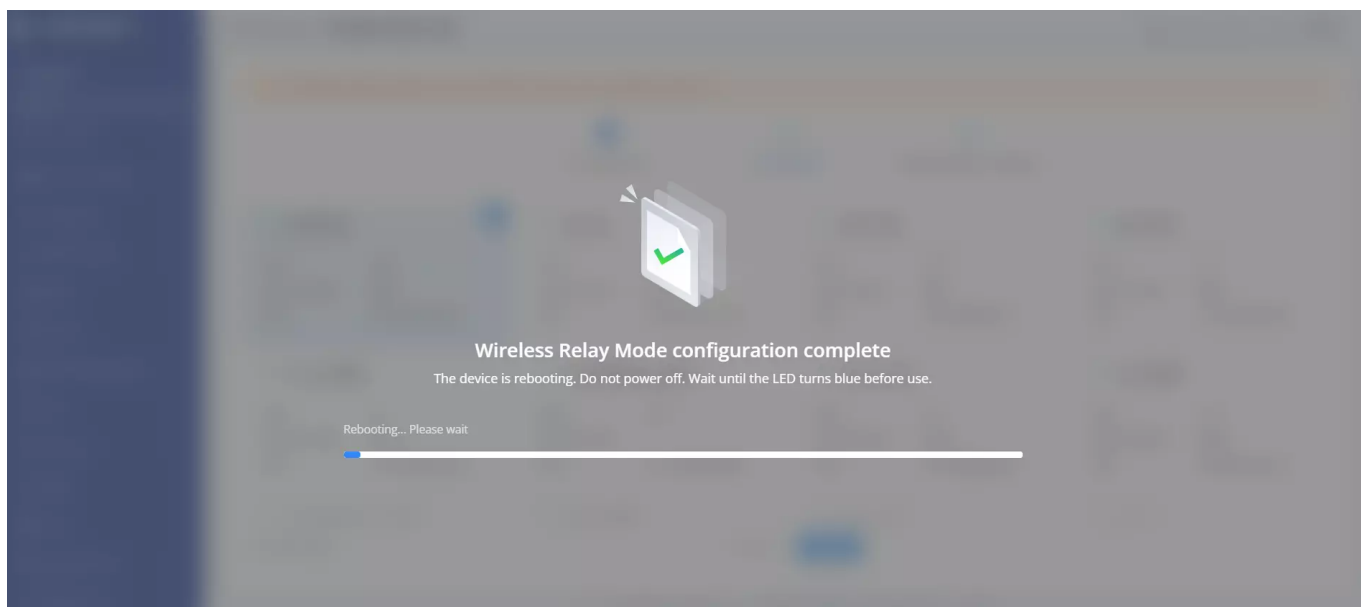


Enter the correct credentials and click **OK**.



*Working Mode Wireless Relay Mode Enter Wi Fi Password*

**Step 3 - Configuration Complete.** The device will now apply the settings and reboot. Do not power off the unit. Wait for the LED to turn solid blue before using the router.



*Working Mode Wireless Relay Mode Rebooting*

#### Notes:

- In this mode, the router replicates and extends the existing Wi-Fi network.
- All LAN ports can be used to connect wired clients, which will receive IP addresses from the main router.
- This is ideal for extending Wi-Fi coverage without using cables.

You have successfully configured Wireless Relay Mode.

### 3. Wireless Bridge Mode

The router supports **Wireless Bridge Mode**, allowing the device to wirelessly connect to an existing internet-connected router. Once connected, the device disables its wireless broadcasting and converts all Ethernet ports into LAN ports for wired client connections. This mode is ideal for connecting wired-only devices such as smart TVs, DVRs, game consoles, and desktop computers to a remote Wi-Fi network.

#### To set up Wireless Bridge Mode:

##### 1. Navigate to Working Mode

Go to **System -> Working Mode**, then select **Wireless Bridge Mode** and click **Save**.

Operation Mode

Router Mode

The device connects to the internet via DHCP, PPPoE, PPTP, L2TP, or static IP, and shares the network with LAN clients or wireless devices. You can also add mesh nodes to the device to extend Wi-Fi coverage for seamless roaming.



```
graph LR; Internet((Internet)) --- Router[Router]; Router --- Client[Client]
```

Wireless Relay Mode

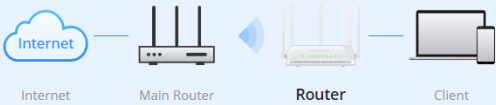
The device wirelessly connects to an existing and internet-connected router, replicates and enhances the connected wireless signal, thereby expanding the coverage of the existing wireless signal.



```
graph LR; MainRouter[Main Router] --- Router[Router]; Router --- Client[Client]
```

Wireless Bridge Mode

The device wirelessly connects to an existing and internet-connected router, providing smooth wireless networking for wired media devices such as computers, smart TVs, game consoles, DVRs, or media players with wired connections.



```
graph LR; Internet((Internet)) --- MainRouter[Main Router]; MainRouter --- Router[Router]; Router --- Client[Client]
```

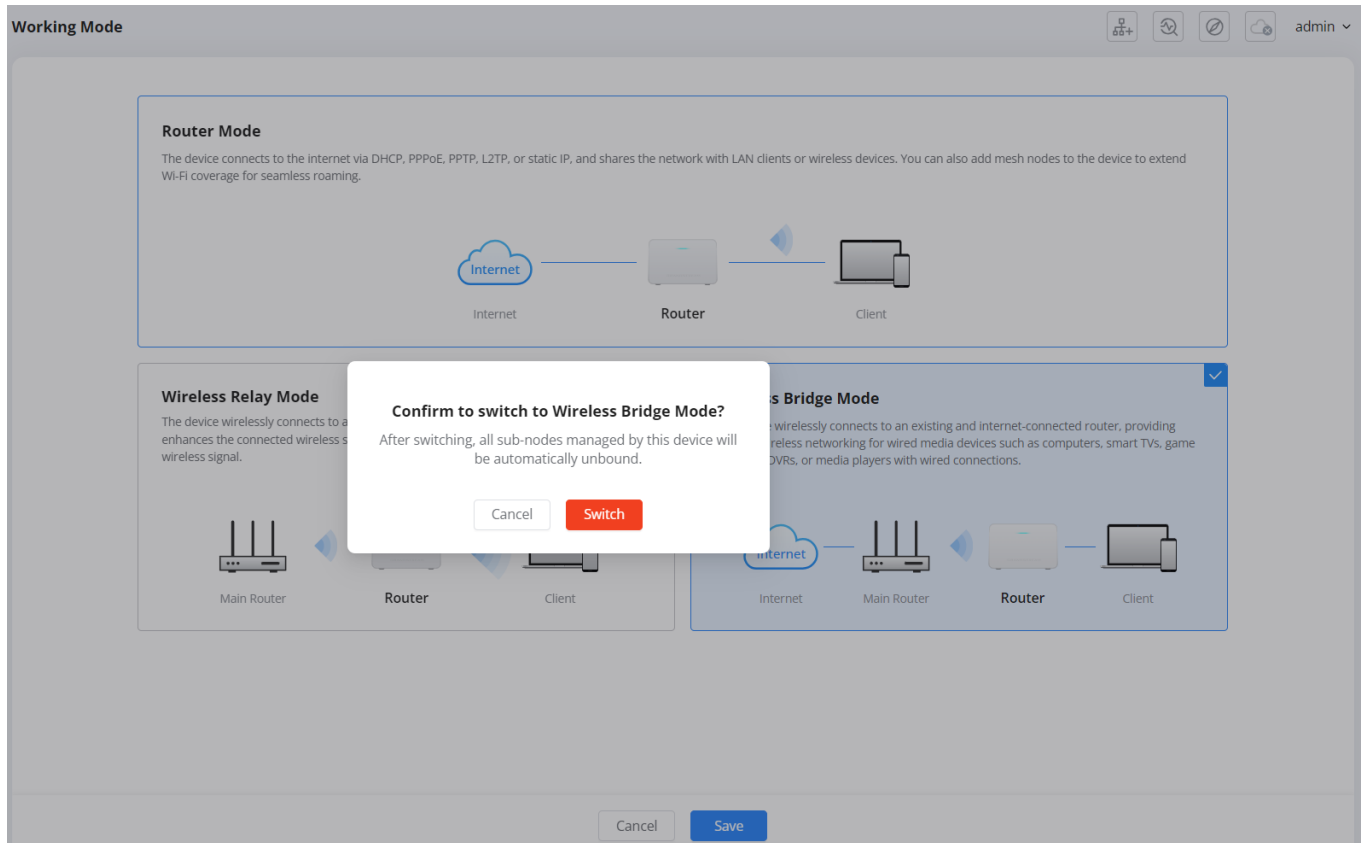
Cancel

Save

*Working Mode Wireless Bridge Mode*

##### 2. Confirm Mode Switch

A prompt will appear stating that all sub-nodes managed by the device will be unbound. Click **Switch** to proceed.



*Working Mode Wireless Relay Mode Switch confirmation*

### 3. Read Preparations

The screen will display key instructions:

- The device will no longer provide wireless connectivity.
- All Ethernet ports will serve as LAN ports for data transmission.
- Ensure the device is not connected to any network via cable and is placed within Wi-Fi range of the main router.

Click **Next** to continue.

Working Mode > Wireless Bridge Mode

admin

In Wireless Bridge Mode, this device will no longer provide wireless connectivity. All Ethernet ports will function as LAN ports for data link connections only.

Preparations

Select Wi-Fi

Configuration Complete

Main Router

This Device

1.Please ensure there is an available wireless network and place this device within its signal range.

2.Please make sure this device is not connected to any other network via Ethernet cable.

Cancel

Next

Working Mode Wireless Relay Mode Preparations

#### 4. Select Wi-Fi

The device will scan for available Wi-Fi networks. Choose the network you want to connect to and click **Next**.

Working Mode > Wireless Bridge Mode

admin

In Wireless Bridge Mode, this device will no longer provide wireless connectivity. All Ethernet ports will function as LAN ports for data link connections only.

Preparations

Select Wi-Fi

Configuration Complete

GWN6341F4

Band2.4G

Security ModeWPA2

MACEE:74:D7:23:41:F5

GWN6341F4

Band5G

Security ModeWPA2

MACEE:74:D7:23:41:F5

GWN7605

Band2.4G

Security ModeWPA2

Grandstream, Guest

Band5G

Security Mode-

Search again

Previous

Next

## 5. Enter Wi-Fi Password

Enter the password of the selected Wi-Fi network and confirm by clicking **OK**.

Working Mode > **Wireless Bridge Mode**

In Wireless Bridge Mode, this device will no longer provide wireless connectivity. All Ethernet ports will function as LAN ports for data link connections only.

Preparations **Select Wi-Fi** Configuration Complete

**Please enter the Wi-Fi password**

\* Wi-Fi Password  
8-63 ASCII characters or 8-64 hex characters

.....

Cancel OK

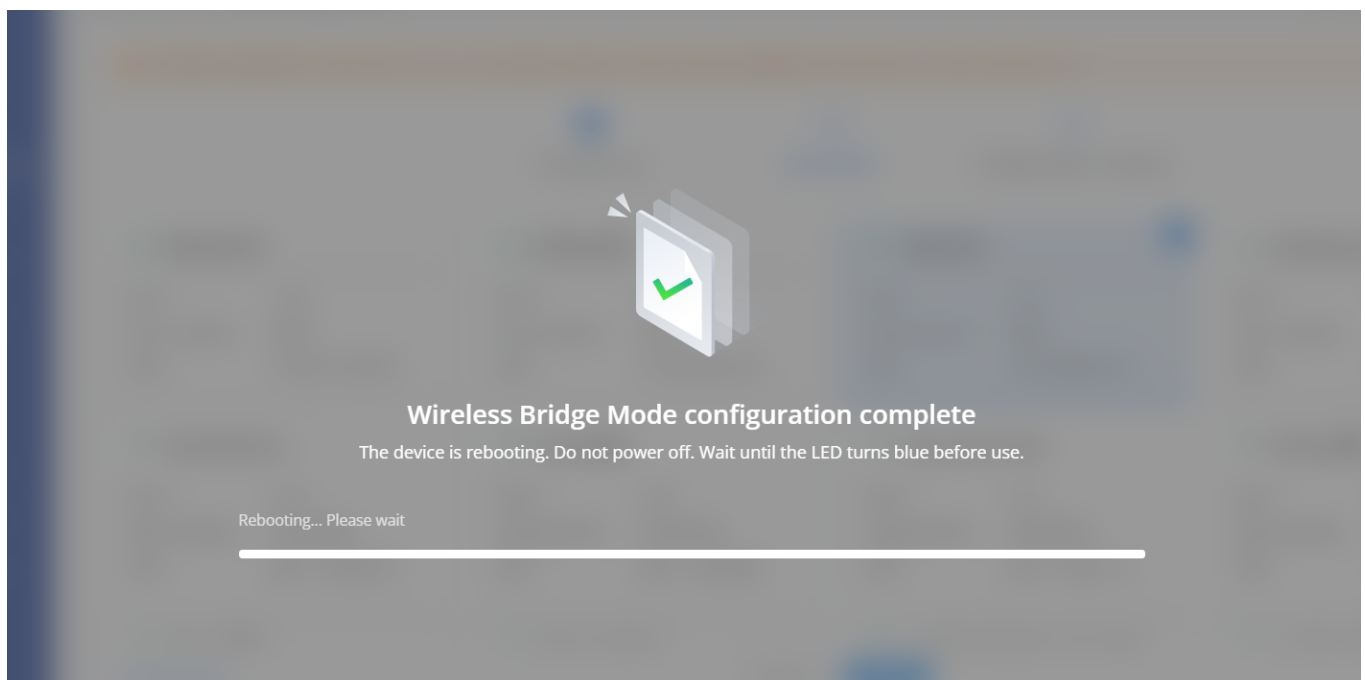
GWN7605  
Band 2.4G  
Security Mode WPA2

Grandstream\_Guests  
Band 5G  
Security Mode -

Search again Previous Next

## 6. Reboot and Finish

The device will apply the settings and automatically reboot. Wait until the LED turns solid blue before using it. You can now connect wired clients to the router's LAN ports, and they will obtain IP addresses from the main router.



## CHANGE LOG

This section documents significant changes from previous versions of the GWN7072 router user manuals. Only major new features or major document updates are listed here. Minor updates for corrections or editing are not documented here.

### Firmware Version 1.0.1.9

- This is the initial release.

---

All product names, logos, and brands mentioned in this document are the property of their respective owners. **Windows(R) is a registered trademark of Microsoft Corporation. iOS(R) is a registered trademark of Apple Inc. Android(R) is a registered trademark of Google LLC. Samsung(R) is a registered trademark of Samsung Electronics Co., Ltd.**