BOLTON TECHNICAL

Built for Better Signal

Blazer Cellular Router User Guide

Bolton Blazer | BT478928
Bolton Blazer MAX | BT478935
Bolton Blazer PRO | BT478942

Version 1 • April 17, 2023 • www.boltontechnical.com • 1-888-987-2658

Router User Manual (HD Series)

Table of Contents

How to Access 3
Status 5
Overview 5
Traffic Stats 9
Device List 9
Basic Network 10
WAN 10
Cellular 12
LAN basic settings 14
VLAN 15
Schedule 16
DDNS 17
Routing 17
WLAN 19
Basic Settings 19
MultiSSID 23
Wireless Filter 25
Advanced Network 26
Port Forwarding 26
DMZ 27
IP Passthrough 27
Bandwidth Control 28
Static DCHP 29
Firewall 30
IP/MAC/Port Filtering 30
Domain Filtering 30
VPN Tunnel 32
OpenVPN Client 32
Administration 34

Identification 34
Time 34
Scheduled Reboot 34
Configuration 35
Tools 37
Ping 37
Trace 38
WOL (Wake On Lan) 39
Logs 39
Capture 40
Bandwidth 41
IP Traffic 42
System 44

How to Access

***This manual applies to the Bolton Blazer and Bolton Blazer Pro Router Models.**

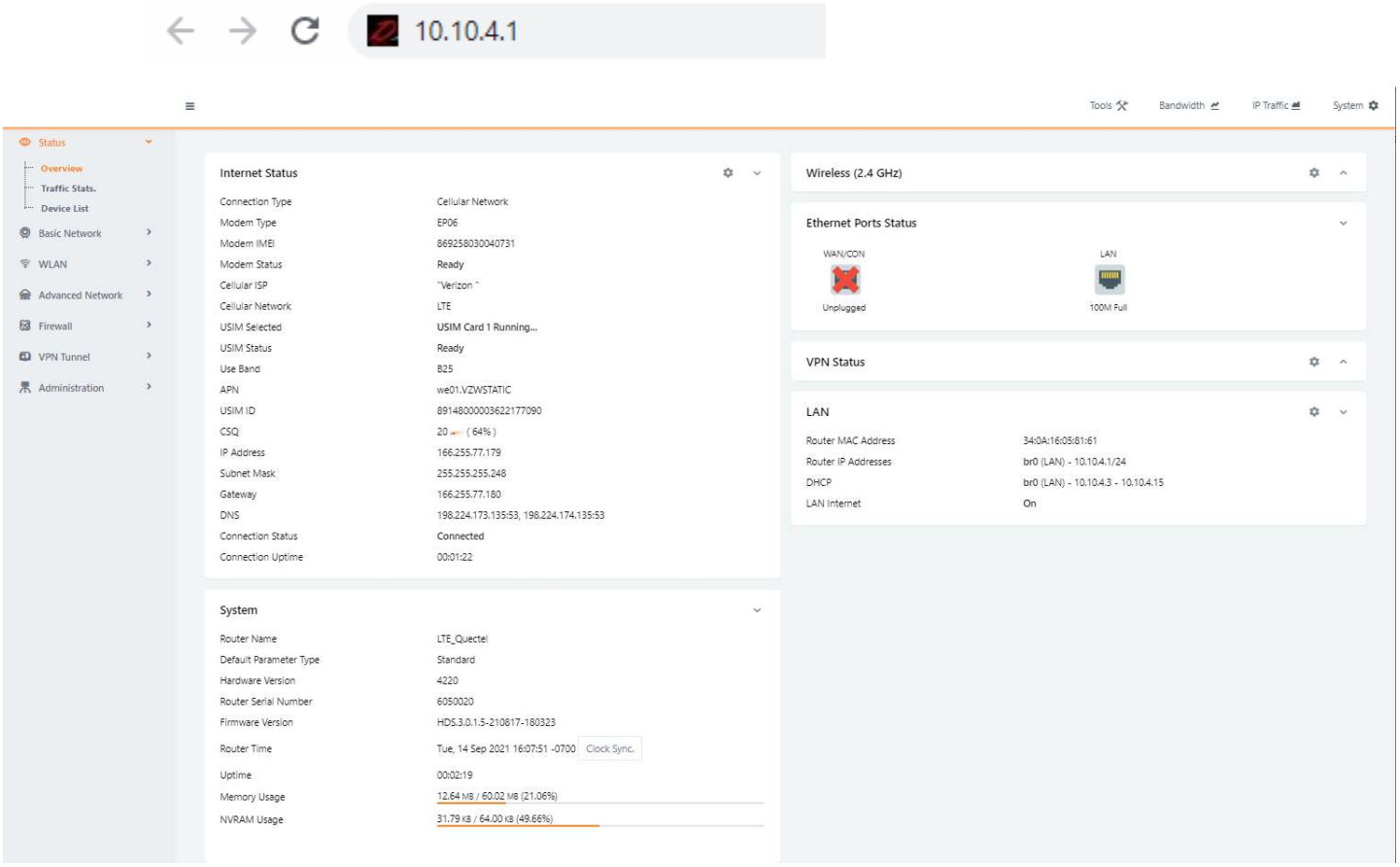
Bolton Technical provides a simple router user interface for router configurations.

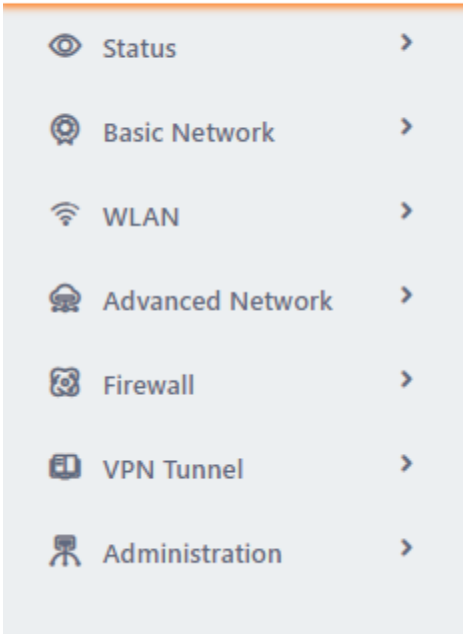
By default, the router user interface can be accessed by navigating to 10.10.4.1 in your web browser.

When prompted for a username and password, enter the credentials provided below:

Username: admin
Password: WTIH20

You would then be presented with the screen below.



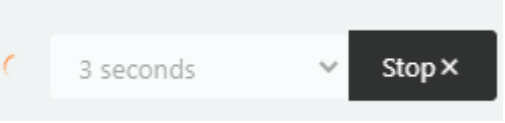


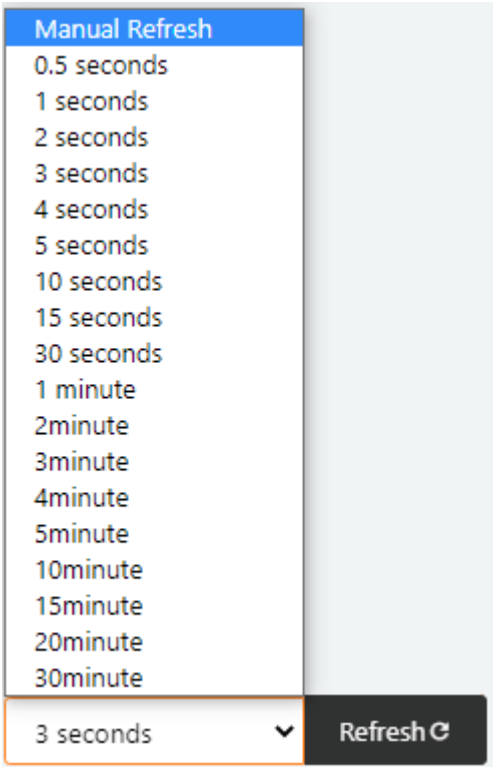
The sidebar to the left displays the features you can navigate to for configuration of the router. The main categories are:

1. Status
2. Basic Network
3. WLAN
4. Advanced Network
5. Firewall
6. VPN Tunnel
7. Administration

*By default, **Status** is selected when you log in to the router UI.

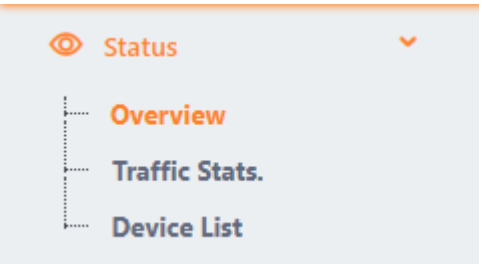
***By default, the router UI is set to update its screen every 3 seconds. To change or stop this, navigate to the bottom of any page in the UI. You will see an option menu to either stop the updates or change the time between refreshes.**





Status

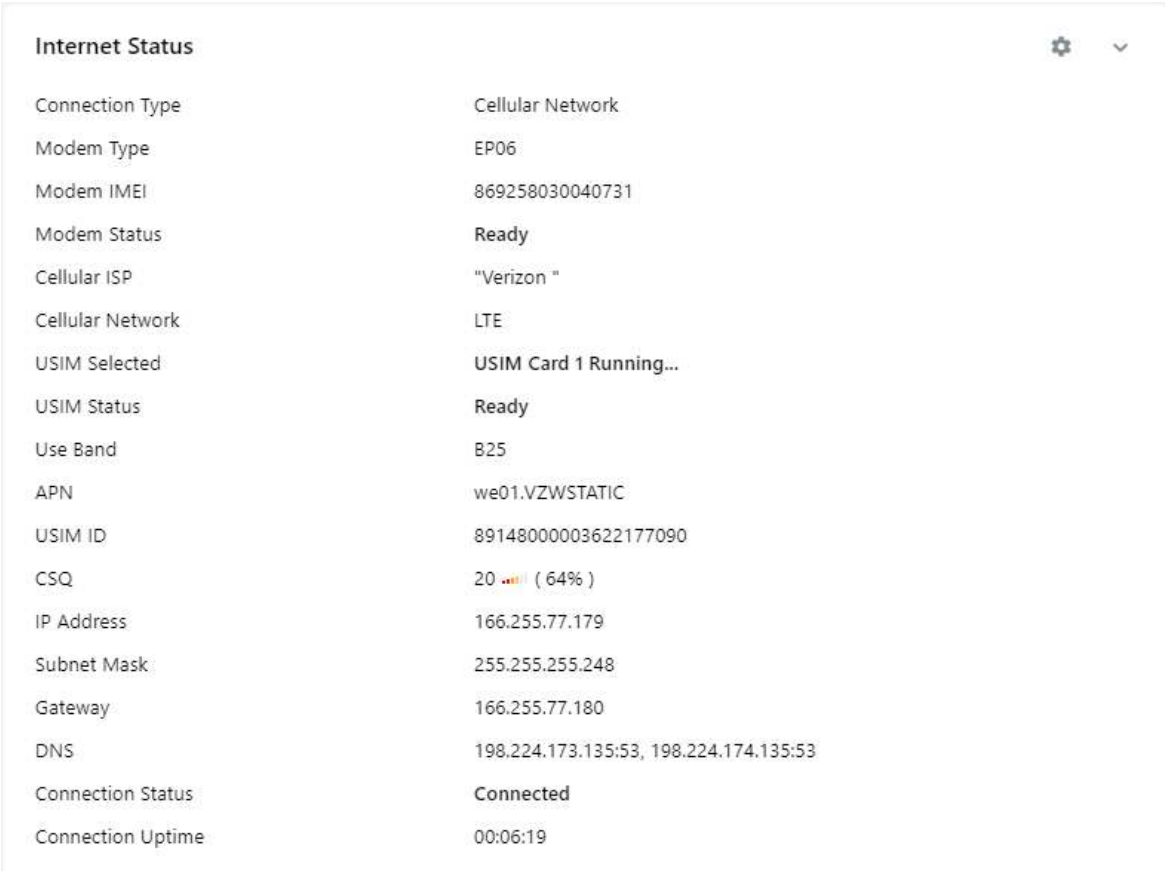
Overview



This shows a status summary (updated every 3 seconds by default) of your router.

Internet Status displays the status and information of the internet connectivity with the router. It includes:

- Connection Type
- Modem Type
- Modem IMEI number
- Modem Status
- Cellular ISP
- Cellular Network (current type of network)
- USIM selected
- USIM Status
- Band number currently connected to
- APN currently being used
- SIM ID
- CSQ (Signal Strength)
- Current IP address
- Current subnet mask
- Current gateway
- Current DNS
- Connection Status
- Connection uptime (How long router is connected to the network

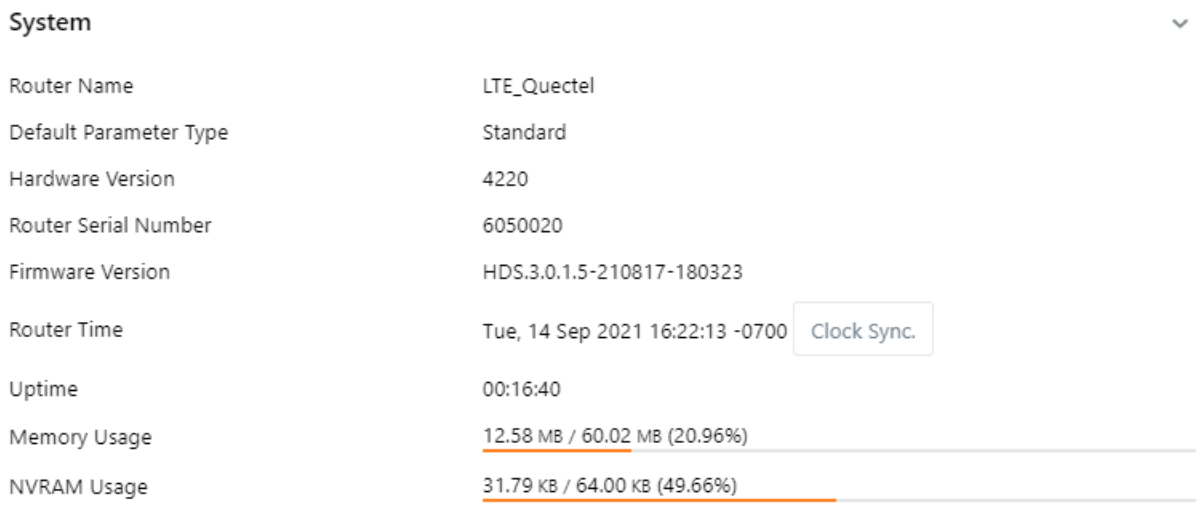


Clicking on the cog in the right corner of Internet Status redirects you to **WAN/Internet** settings in **Basic Network.**

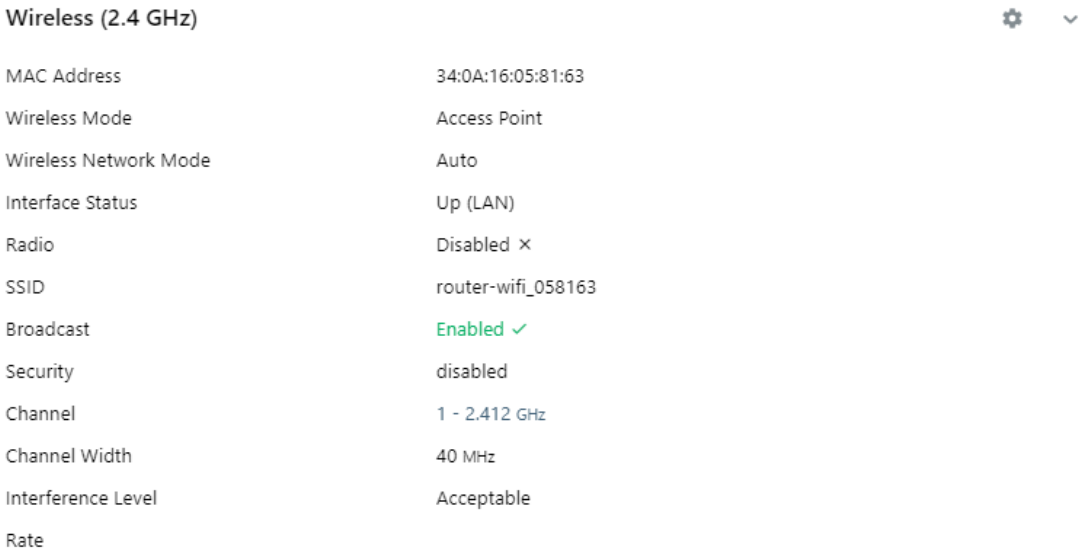


System Status displays information identifying the router:

- Name of your router
- Hardware version number
- Firmware running on the router
- Set time on the router
- Uptime (how long the router has been up)
- CPU Load
- Total / Free memory (How much memory is in the router and how much of it is used with percentages)



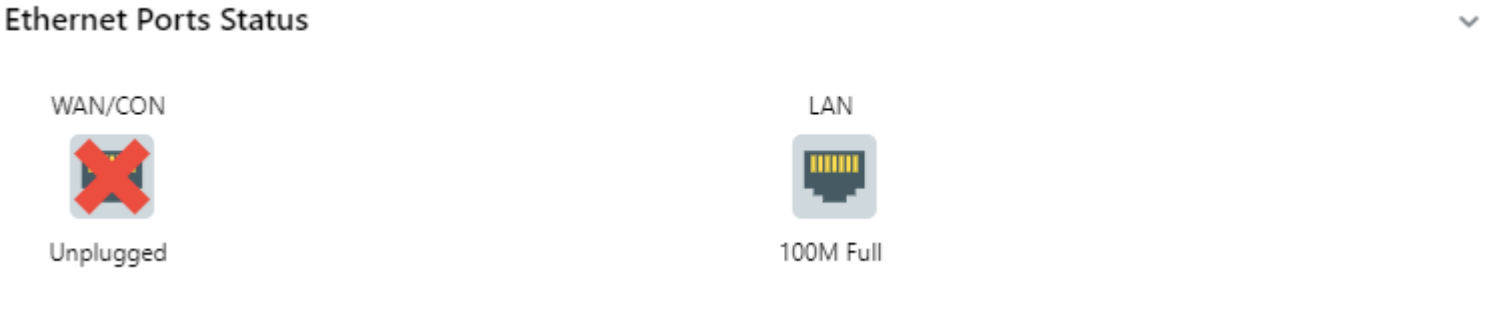
Wireless sections show the status of all your wifi broadcasts. In the example, Wireless (2.4 GHz).



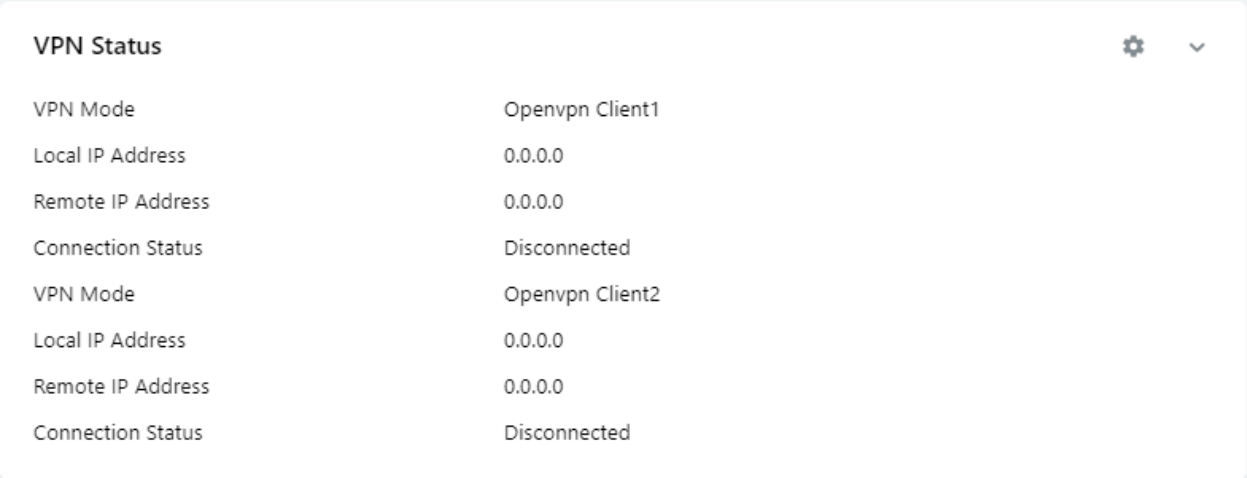
Clicking on the cog in the right corner of Internet Status redirects you to **WLAN Basic settings** in **WLAN.**



Ethernet Ports Status shows which of your ethernet ports are connected, along with the speed interface of the connection.



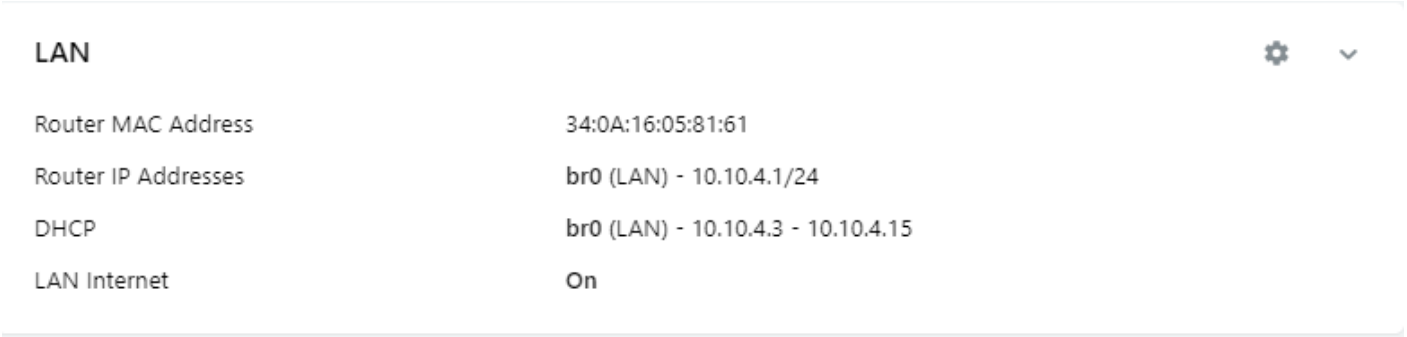
VPN Status shows the statuses of any VPN's (Virtual Private Networks) that the router is currently connected to.



LAN status shows information and status regarding your local area network, including Router MAC address, the IP address range within the LAN, and the DCHP pool range that is currently set.

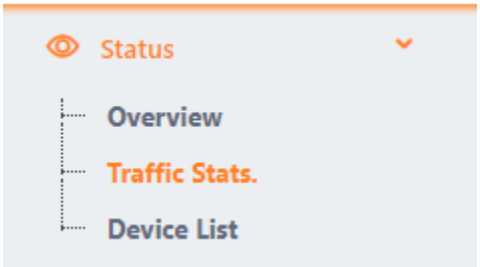
Clicking on the cog in the right corner of Internet Status redirects you to **LAN settings** in **Basic Network.**

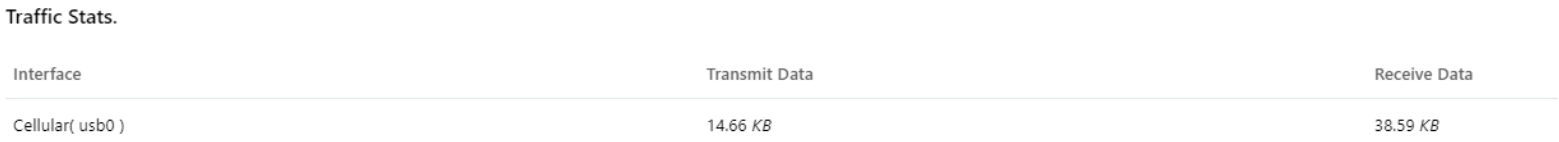




Traffic Stats

In this page you can check the amount of data transmitted and received from the router (in kilobytes).

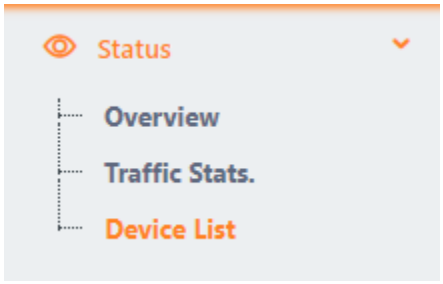




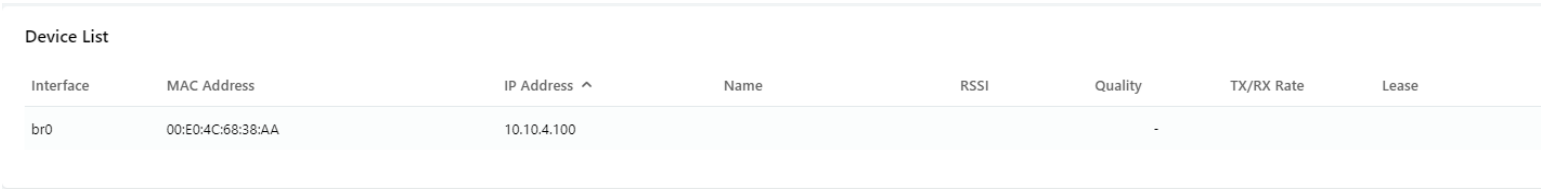
Device List

You can view all devices connected to your LAN ports here, with the information regarding

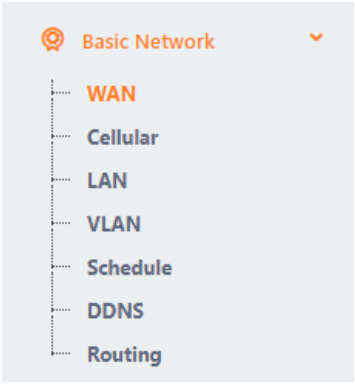
- Interface
- MAC address
- IP address
- Name
- RSSI
- Quality
- TX/RX Rate
- Lease



Lease shows how time is left for that device before its hold on the address given to it by the router expires (24 hours to start).



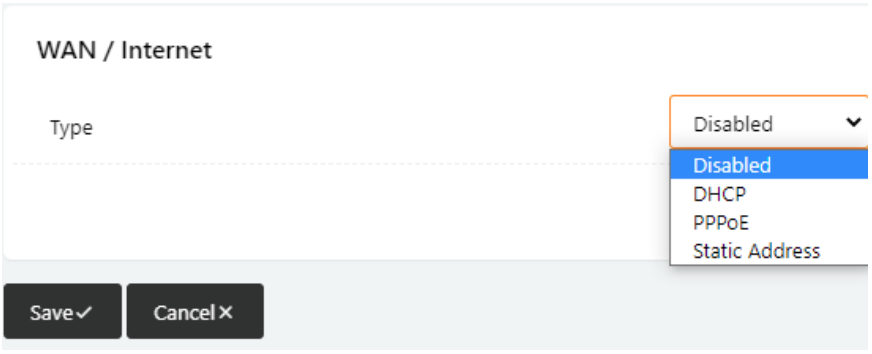
Basic Network

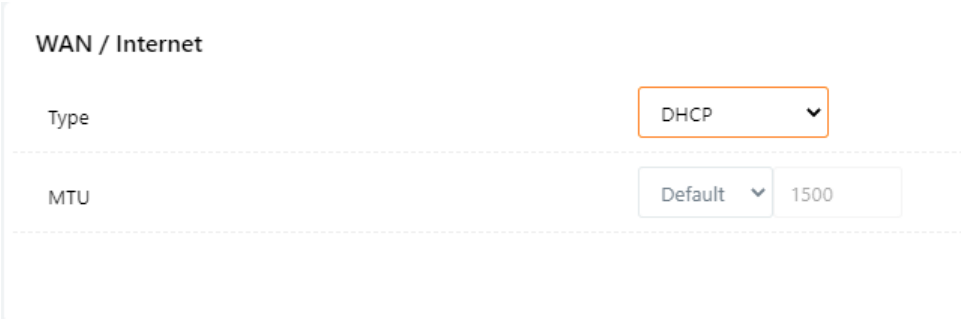


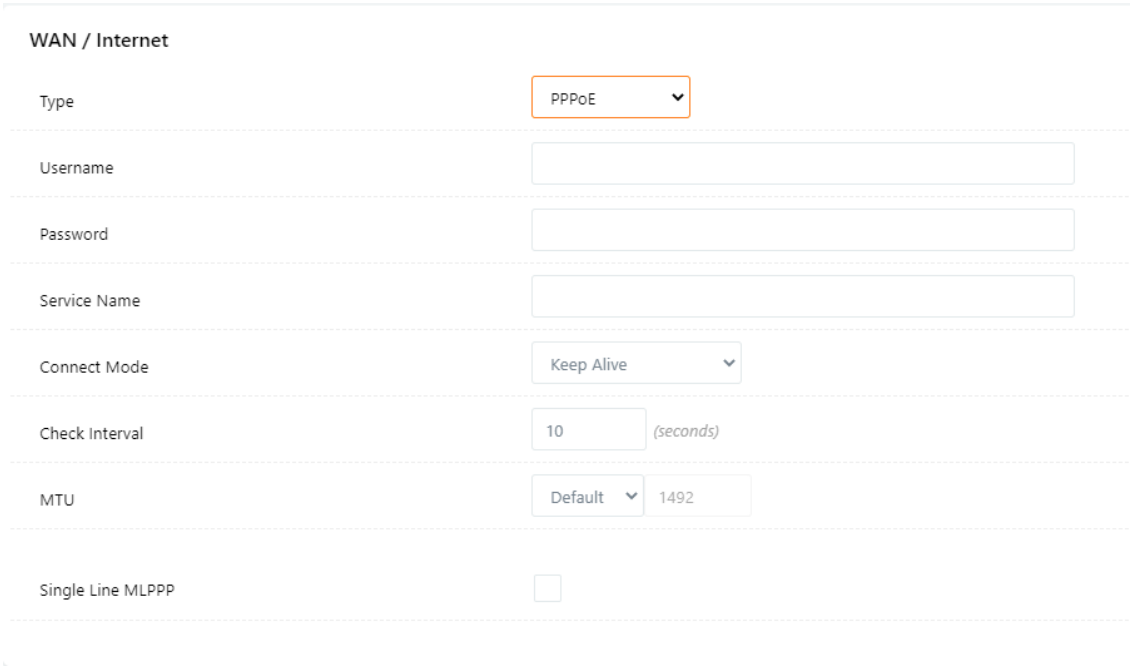
WAN

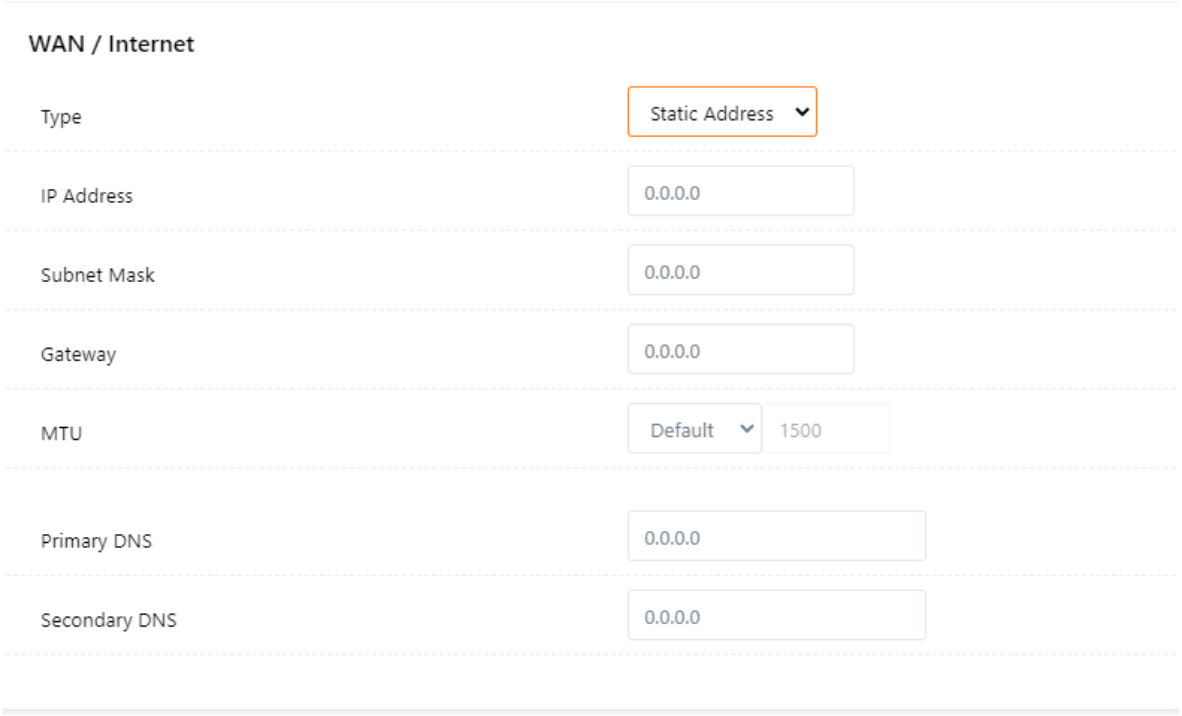
Allows you to:

- Change your WAN/Internet type (Disabled, Static Address, PPPoE, or DHCP).
- Set a primary and secondary DNS.
- Convert your WAN port on the router to work as the primary LAN port (activated by default).

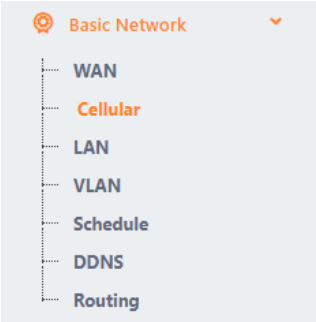




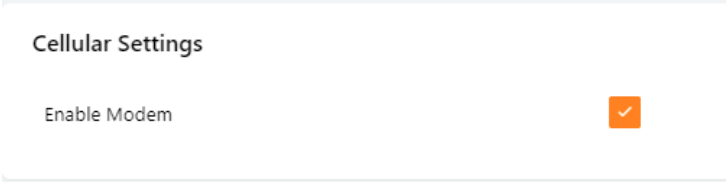

WAN / Internet
Type
PPPoE
Username
Password
Service Name
Connect Mode
Keep Alive
Check Interval
10
(seconds)
MTU
Default
1492
Single Line MLPPP


WAN / Internet
Type
Static Address
IP Address
0.0.0.0
Subnet Mask
0.0.0.0
Gateway
0.0.0.0
MTU
Default
1500
Primary DNS
0.0.0.0
Secondary DNS
0.0.0.0

Cellular



You can toggle your cell modem on and off.



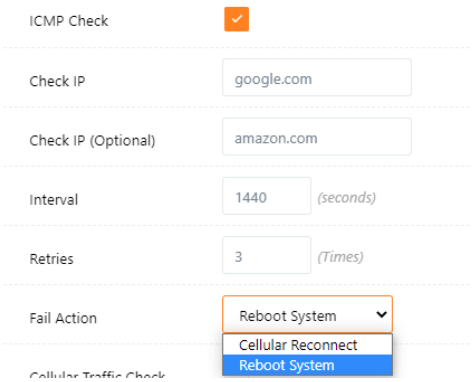
Cellular settings are split into 3 tabs:

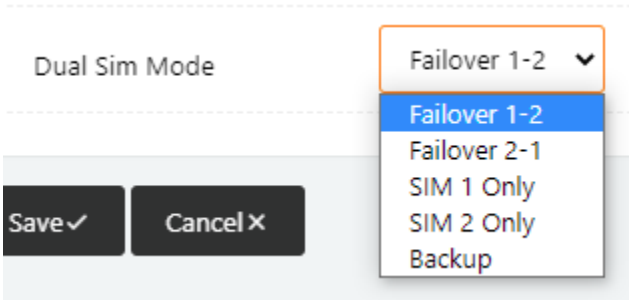
- Basic Settings: Settings that apply to both SIM slots in your router
- SIM 1: Configuration options for only SIM 1
- SIM 2: Configuration options for only SIM 2

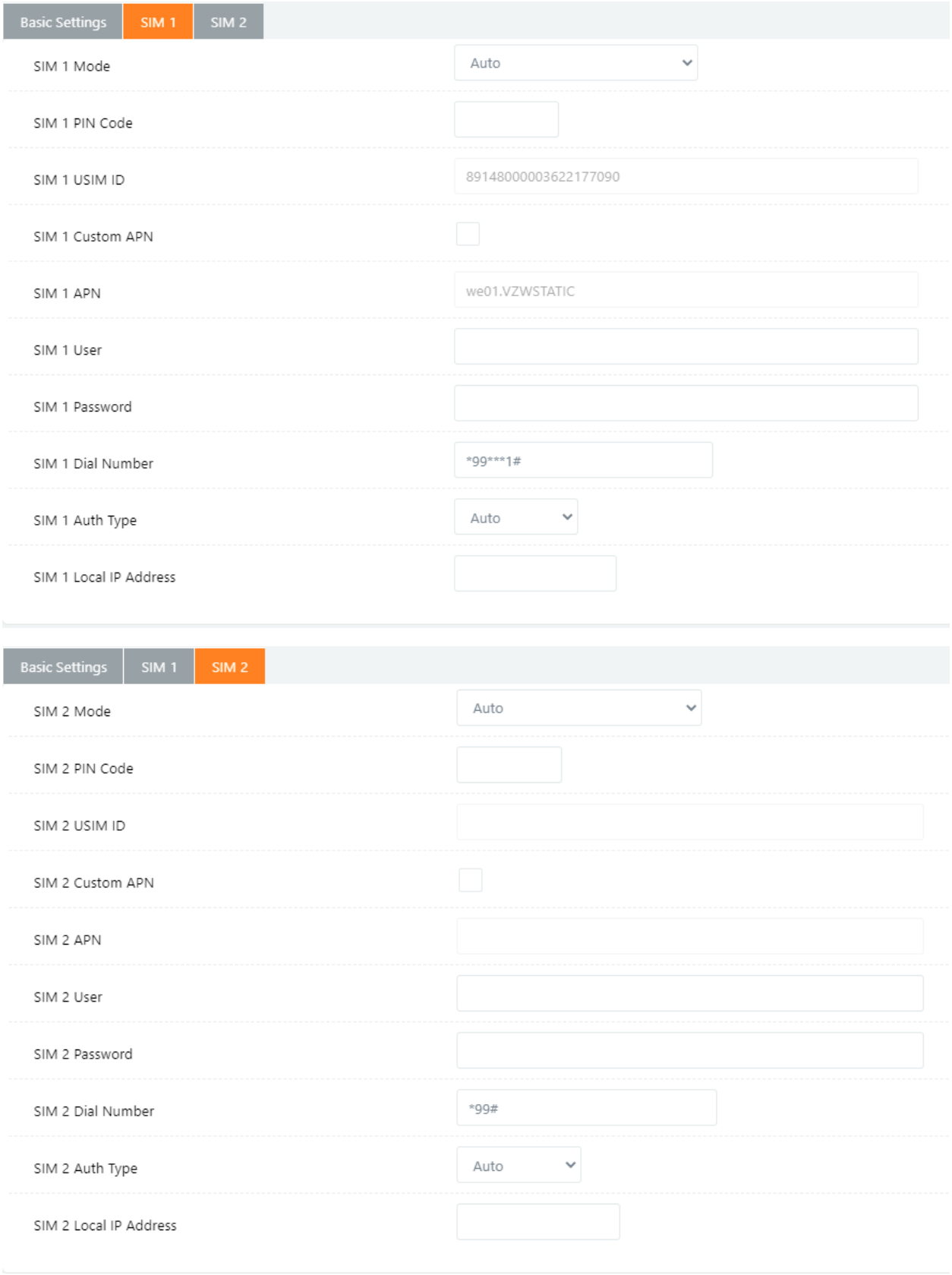


In cellular Basic Settings you can:

- **Set an ICMP check:** Ping to an address (default is google.com, secondary is amazon.com). You can set the interval to your liking with amount of retries (default is 3) before a fail action. You can set your fail action to either, reboot (default), or just attempt cellular reconnect.
- **Dual Sim Mode:** Toggle the order of which SIM you would like to be primary and secondary. You can also set the router to only use a single slot (1 or 2).

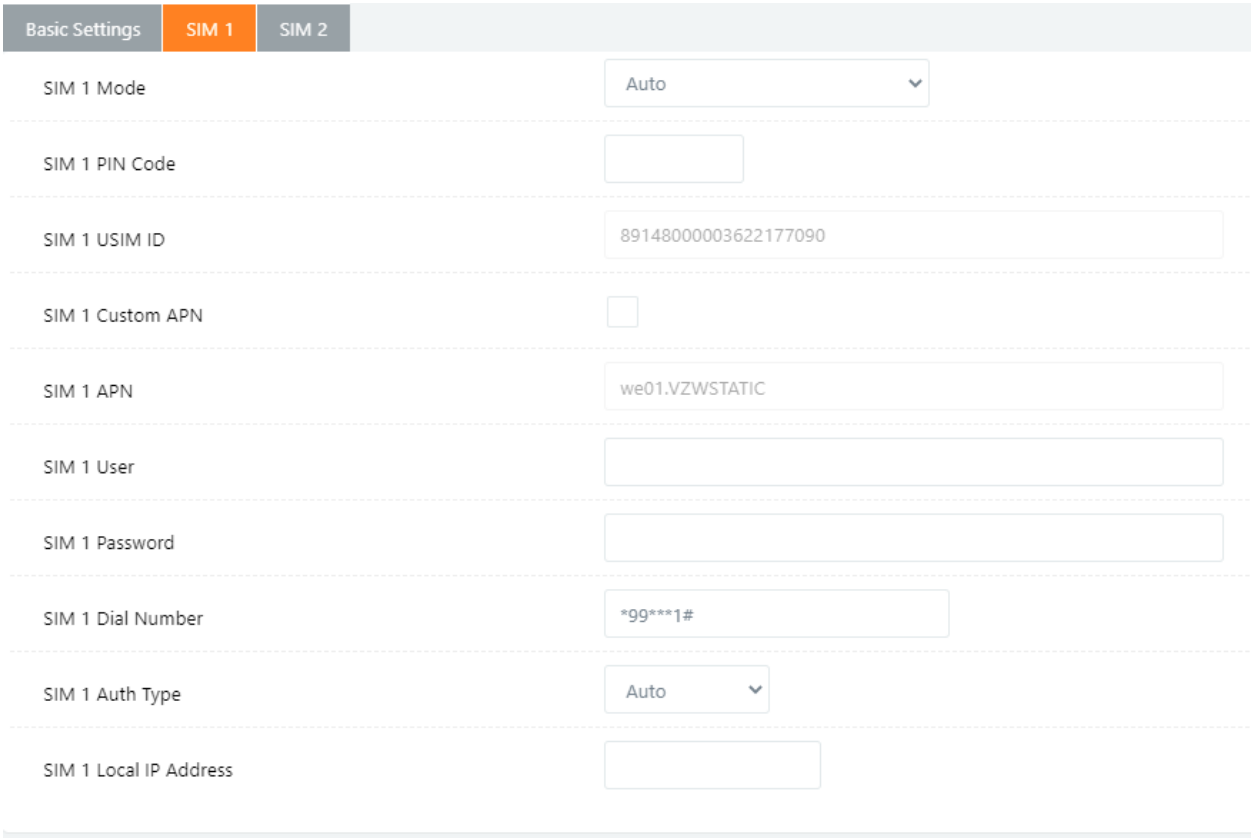




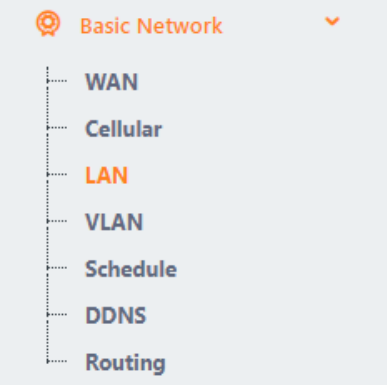

Basic Settings
SIM 1
SIM 2
SIM 1 Mode
Auto
SIM 1 PIN Code
SIM 1 USIM ID
8914800000362217709O
SIM 1 Custom APN
SIM 1 APN
we01.VZWSTATIC
SIM 1 User
SIM 1 Password
SIM 1 Dial Number
*99***1#
SIM 1 Auth Type
Auto
SIM 1 Local IP Address
Basic Settings
SIM 1
SIM 2
SIM 2 Mode
Auto
SIM 2 PIN Code
SIM 2 USIM ID
SIM 2 Custom APN
SIM 2 APN
SIM 2 User
SIM 2 Password
SIM 2 Dial Number
*99#
SIM 2 Auth Type
Auto
SIM 2 Local IP Address

In SIM 1 and SIM 2 settings you can:

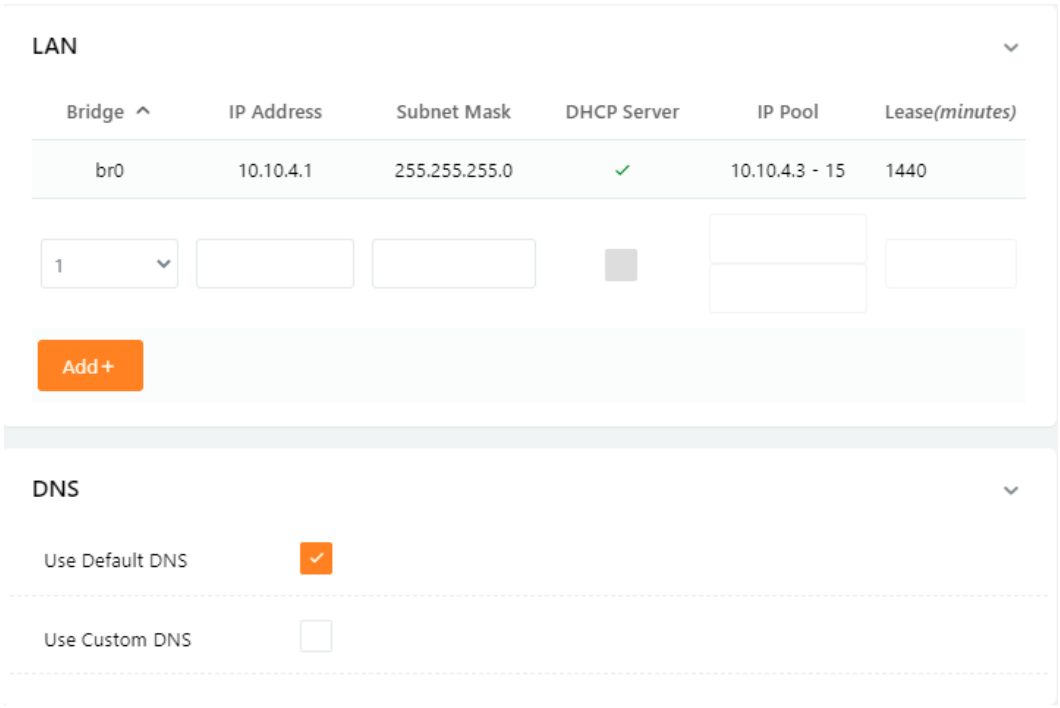
- SIM mode: Change connection type as LTE or 3G (if applicable)
- SIM Pin Code (if applicable)
- See the SIM number of the card in the slot
- Set a custom APN for SIM
- Enter username and password (if applicable)
- Enter Dial Number
- Change Authentication Type
- Set a local IP address



LAN basic settings

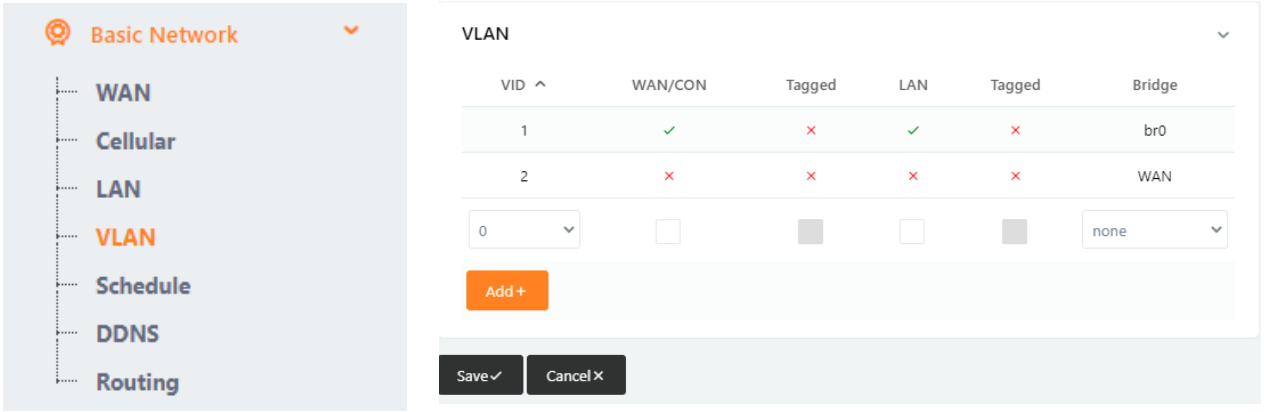


From here, you can change your router's IP address, change your subnet mask, enable or disable DHCP, set an IP pool range, and set lease time. Any changes will require a reboot of the router to go into effect. Use also have the option to use either the default DNS or set your own custom Primary and Secondary DNS

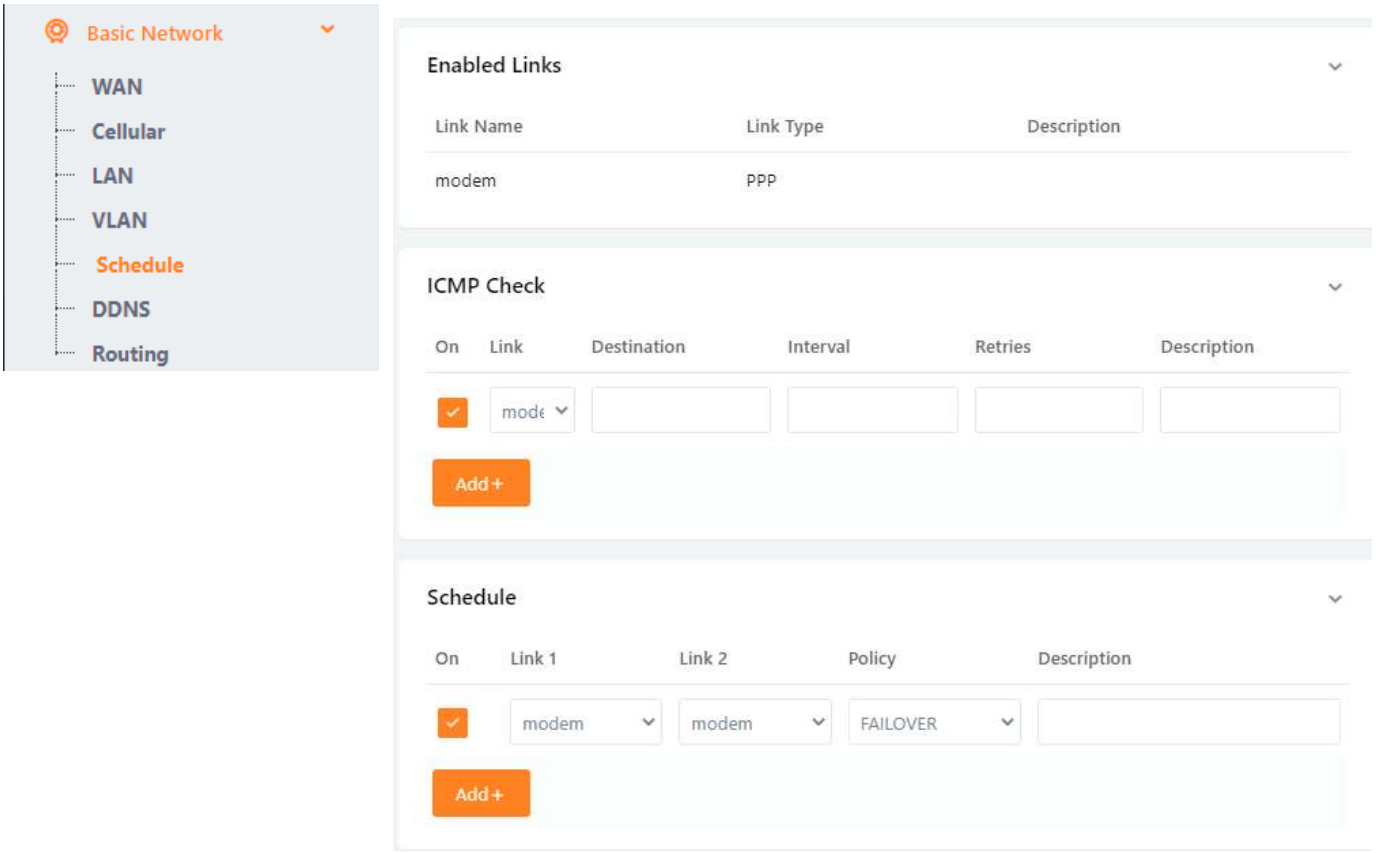


VLAN

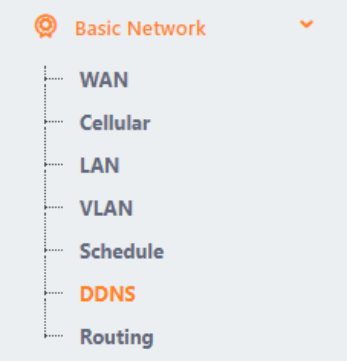
This setting allows you to edit the functionality of the ethernet ports on your router.



Schedule

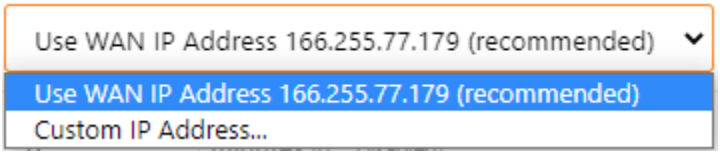

Basic Network
WAN
Cellular
LAN
VLAN
Schedule
DDNS
Routing
Enabled Links
Link Name
Link Type
Description
modem
PPP
ICMP Check
On
Link
Destination
Interval
Retries
Description
mode
Add +
Schedule
On
Link 1
Link 2
Policy
Description
modem
modem
FAILOVER
Add +

DDNS



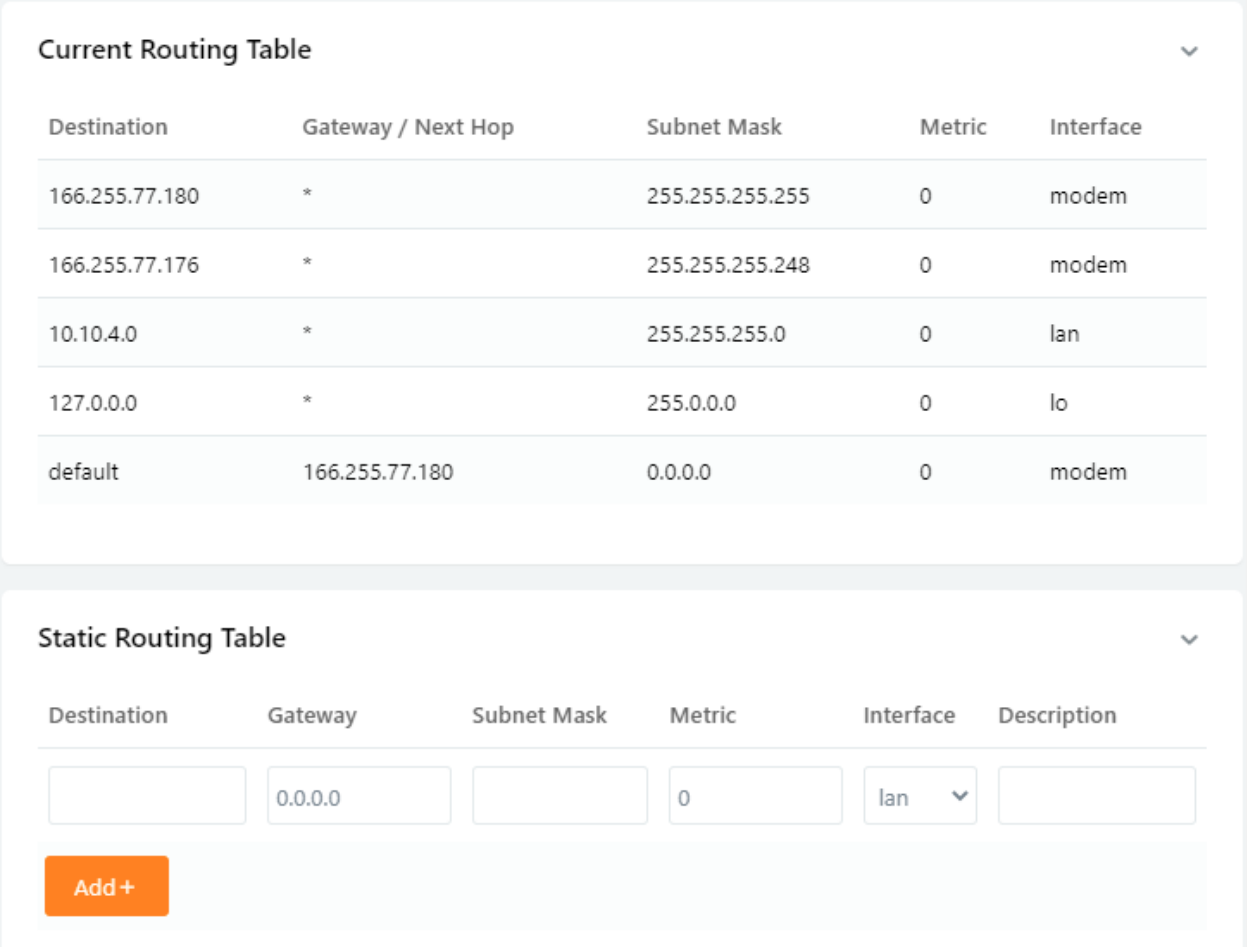
Allows you to set a Dynamic Domain Name Service (using WAN IP or custom)

IP Address: choose either to use WAN IP as DDNS or a custom one.



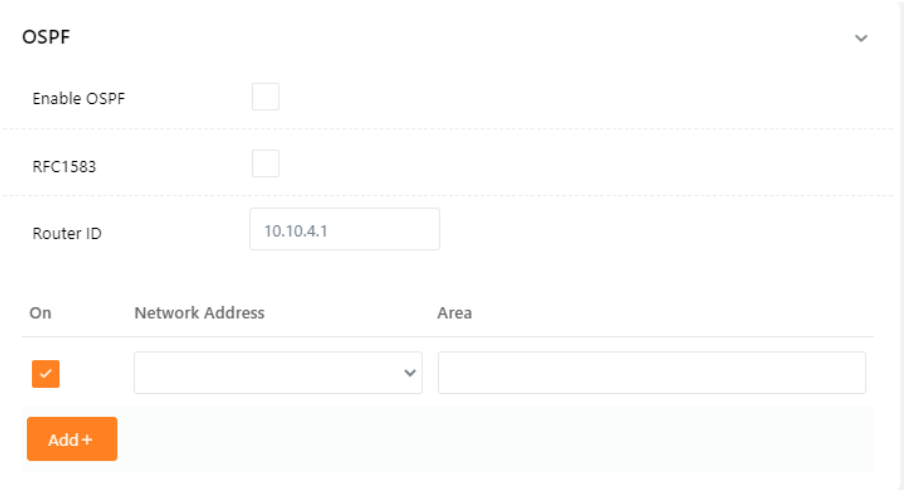
If using WAN IP address, you can use **Dynamic DNS 1** and **Dynamic DNS 2 services** to link to router.

Routing



Shows current routing table on the router and allows you to create a static routing table with your configurations.

You can toggle and specify Open Shortest Path First (OSPF):

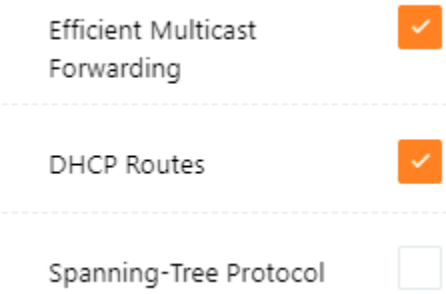


Miscellaneous Settings allow you to:

- Change routing mode to either Gateway or Router mode.



- Enable/Disable Efficient Multicast Forwarding
- Enable/Disable DHCP Routes
- Enable/Disable Spanning Tree Protocol (Loop Detection and Prevention)

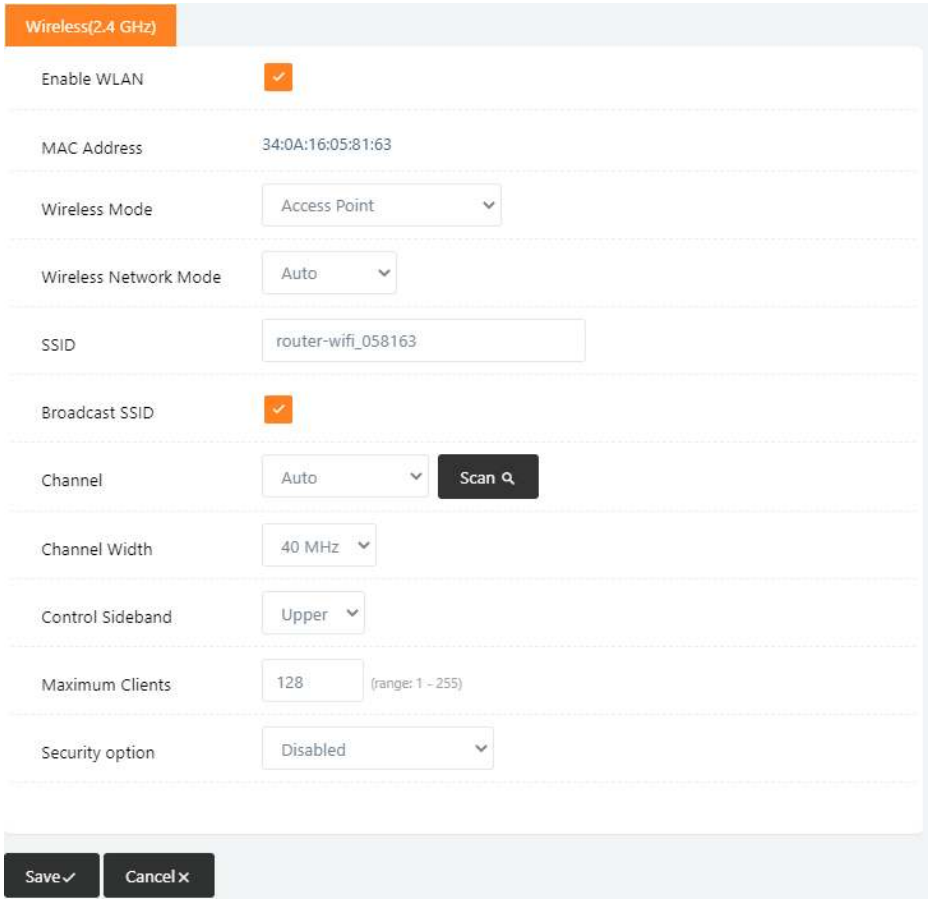


WLAN

Wi-fi access can be configured here to your preferences.

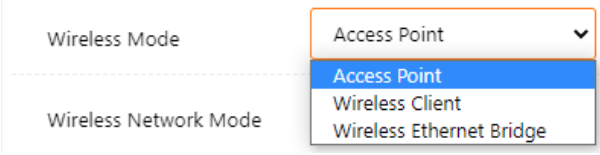
Basic Settings

Configure a single wireless access point from your router here.

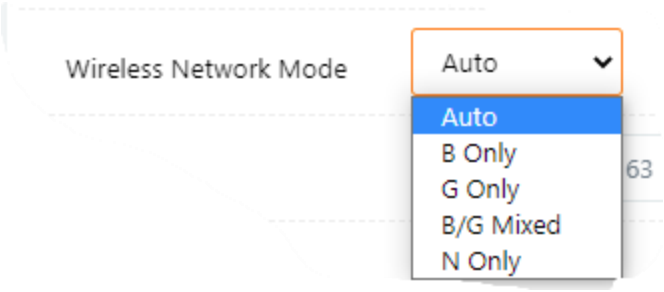


Click **Enable WLAN** to enable or disable wireless. The MAC address of the WLAN is shown below that option.

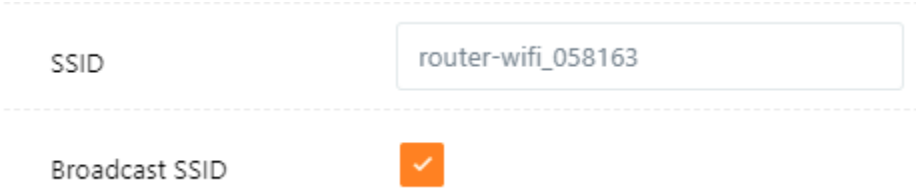
Choose your wireless mode from either **Access Point** (Default)**, AP + WDS, Wireless Client, Wireless Ethernet Bridge,** or **WDS.**



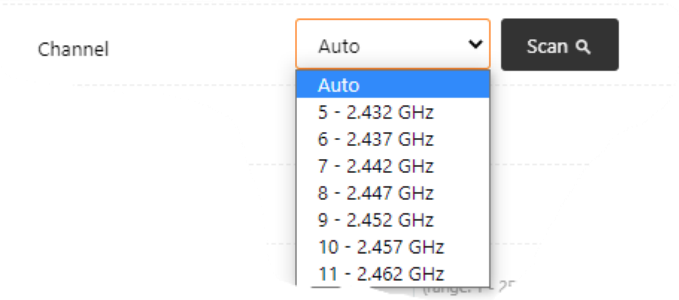
Choose your **Wireless mode** either **Auto (Default), B Only, G Only, B/G Mixed,** or **N Only.**



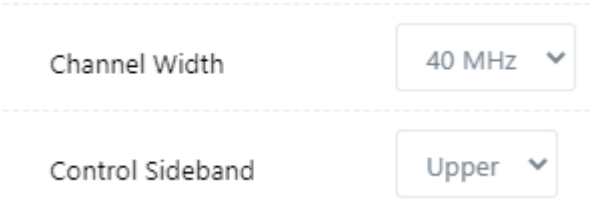
Your WLAN can be named to your liking in the **SSID** row. By default, the router name is "router-wifi-" and the last 4 digits of the wireless MAC address. Set to broadcast the wireless access point by checking **Broadcast SSID.**



Change the wireless channel by clicking on **Channel** and choose your preferred channel. By default, **Auto** is selected.

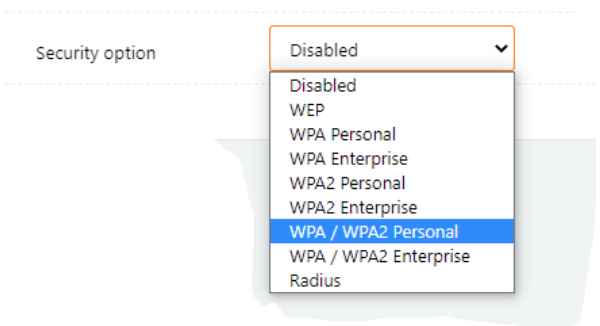


Choose your **Channel Width**. Default is 40 Mhz.



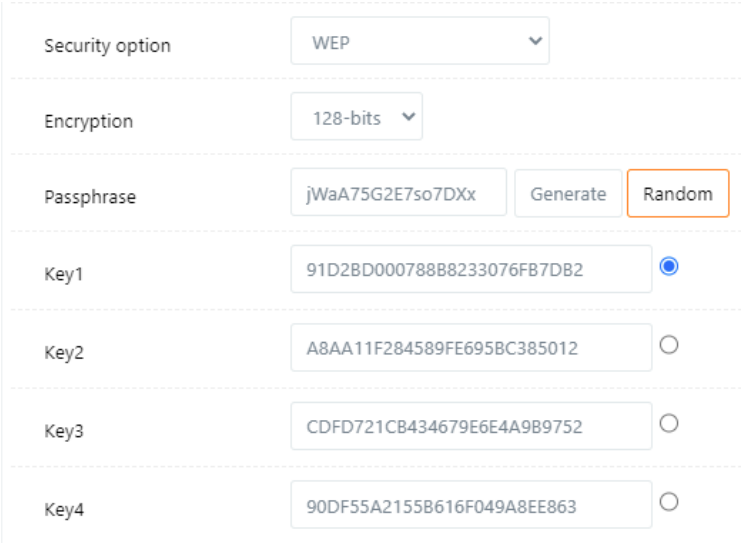
Choose your **Control Sideband** to either **Upper** or **Lower.** Default is **Upper**.

Security Option is disabled by default. To enable, choose your preferred security type.



For WEP encryption:

- Choose an **Encryption** either 128 or 64 bits.
- You can either create your passphrase and keys or click on **Random** to set an automatically created passphrase and keys.



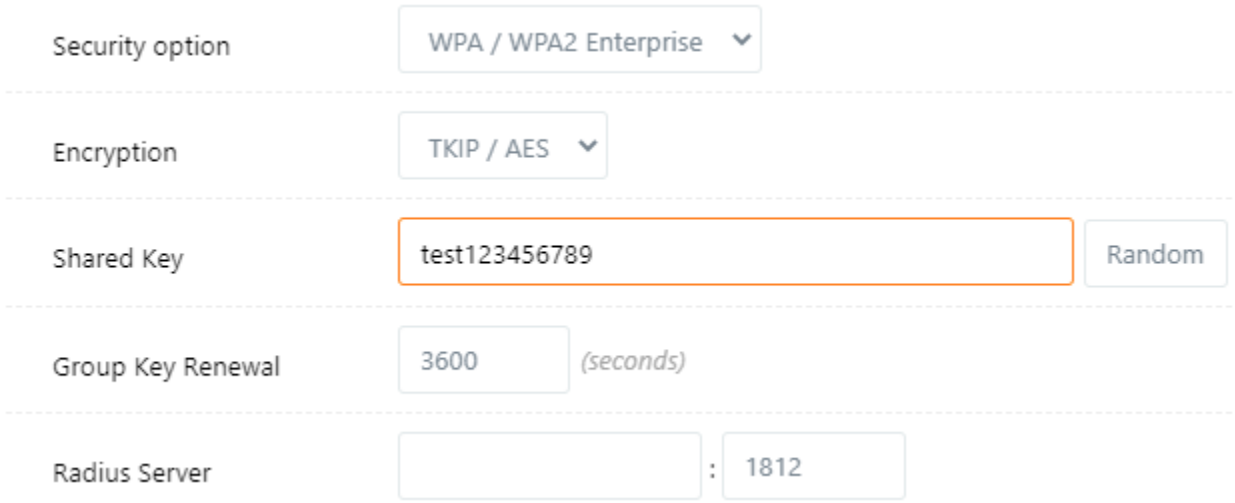
For WPA, WPA2, or WPA / WPA2 Personal:

- Choose **Encryption** to be either TKIP, AES (Default), or Both.
- You can either type your own key or have a random one generated for you.
- Set **Group Key Renewal** to any preferred time in seconds.



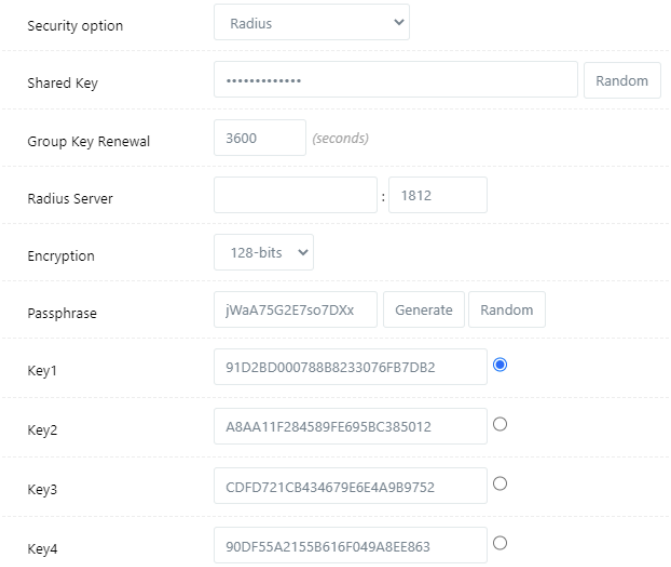
For WPA, WPA2, or WPA / WPA2 Enterprise:

- Choose **Encryption** to be either TKIP, AES (Default), or Both.
- You can either type your own key or have a random one generated for you.
- Set **Group Key Renewal** to any preferred time in seconds.
- Enter your Radius Server.



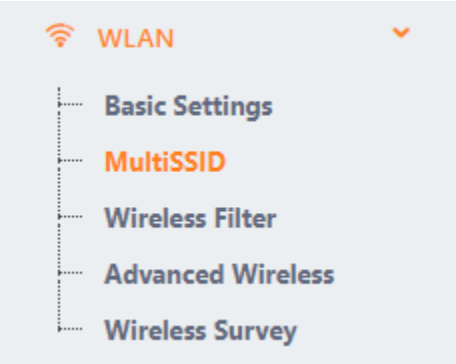
For Radius:

- Enter a shared key or randomly generate one.
- Set **Group Key Renewal** to any preferred time in seconds.
- Enter your Radius server
- Set encryption between 128 or 64 bits.
- Create your own passphrase and keys or randomly generate them.

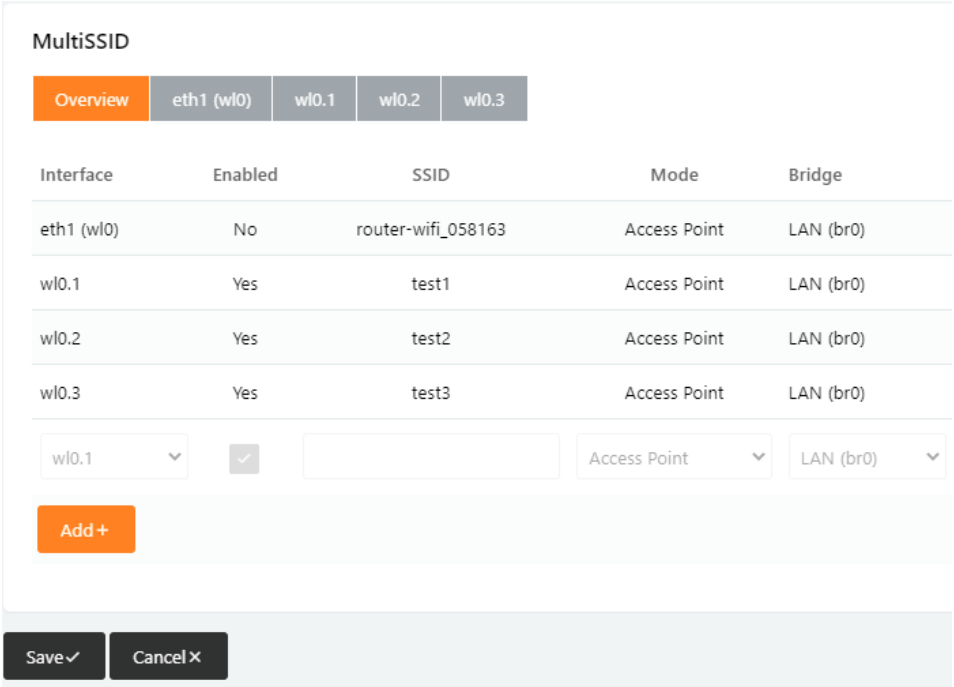


BE SURE TO HIT SAVE AFTER MAKING ANY CHANGES!

MultiSSID

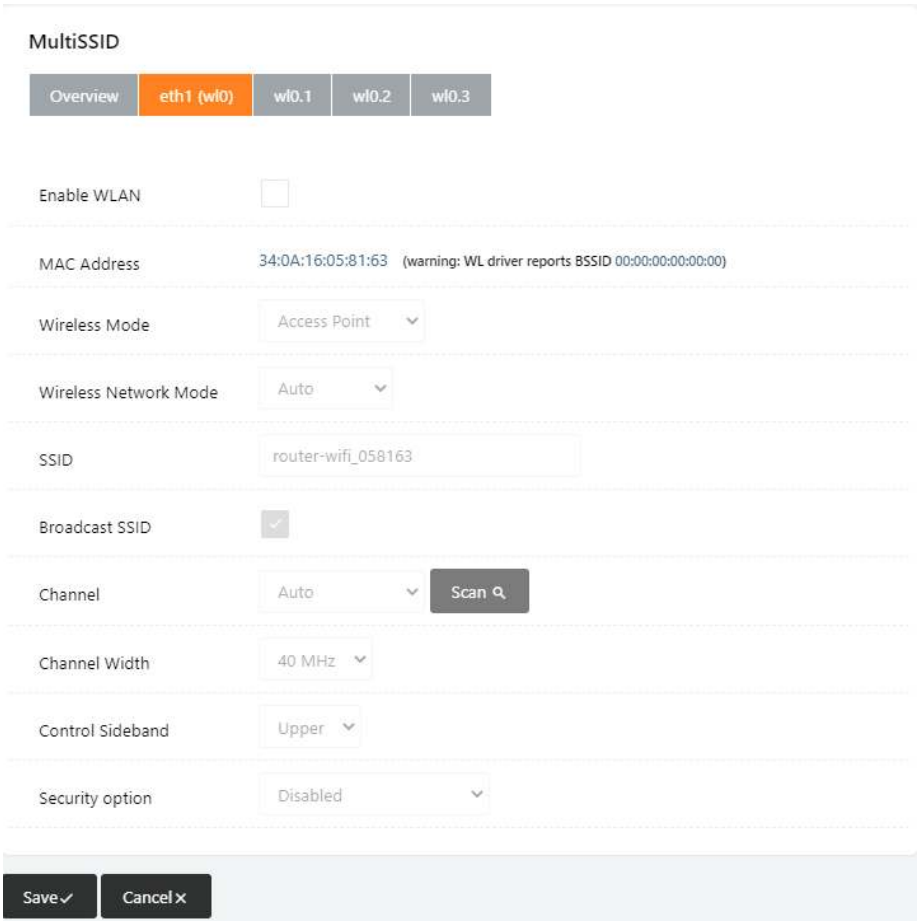


You have the option to activate multiple wireless access points (1 main WLAN and up to 3 additional ones). **MultiSSID** gives you the options to enable and configure them.

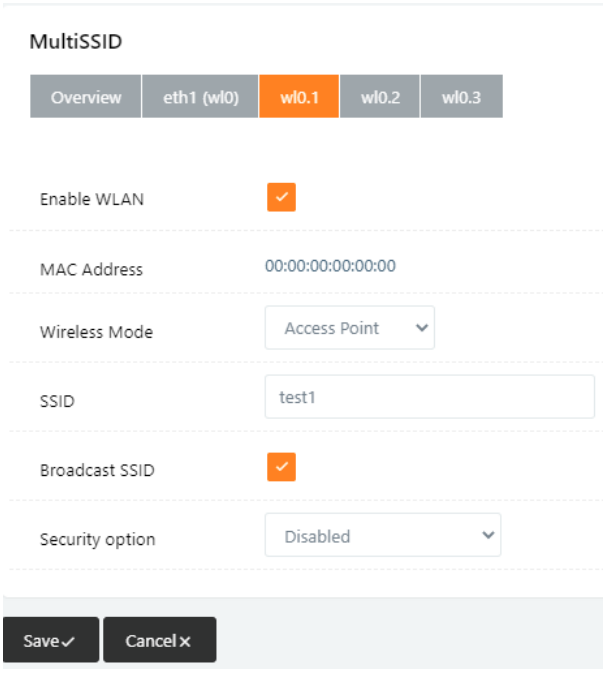


The **Overview** tab shows each access point's status, including the interface, whether it is enabled/disabled, the SSID of each point, what kind of mode it is on, and the bridge.

Eth1 (wl0) is your default WLAN connection. The settings for it here are the same in WLAN basic settings.



Wl0.1 through Wl0.3 are your additional access points. Simply enable any of them as desired. You also have the option to change your **Wireless Mode,** set and broadcast **SSID,** and set a **Security Option.**



To save, after making any changes in this section of the router UI, simply click on Overview (either the button below or the tab) and click **Save.**

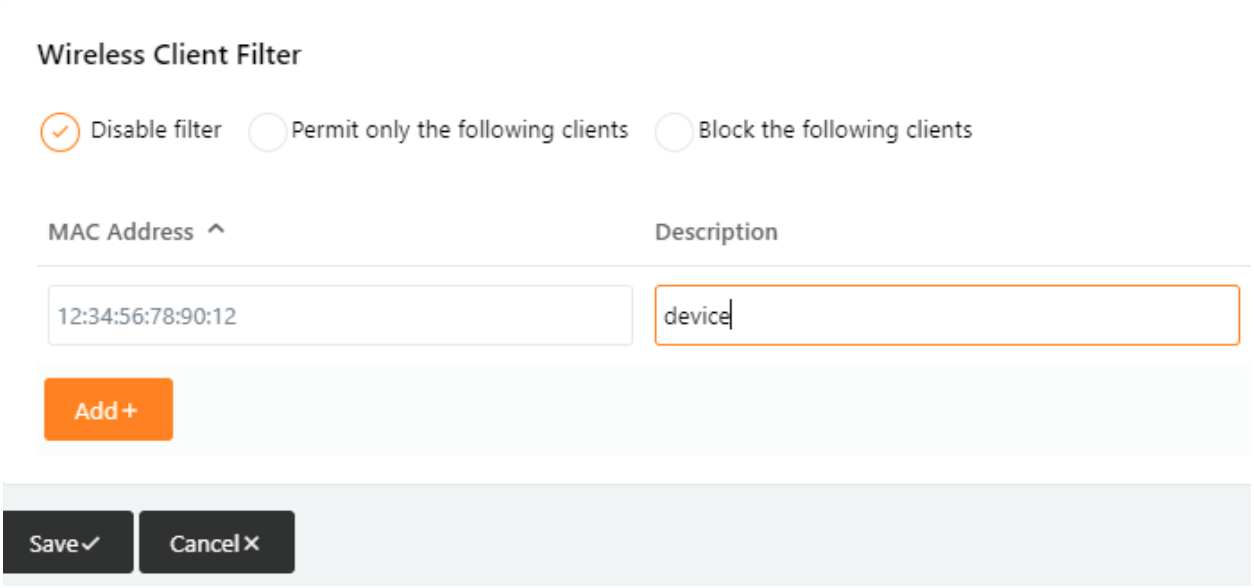


Wireless Filter



You have the option in your Bolton wireless router to filter devices that can connect to your router.

The filter allows you to either set a list of devices allowed to connect (whitelist), or you can set up access for any device except for a list a clients (blacklist).



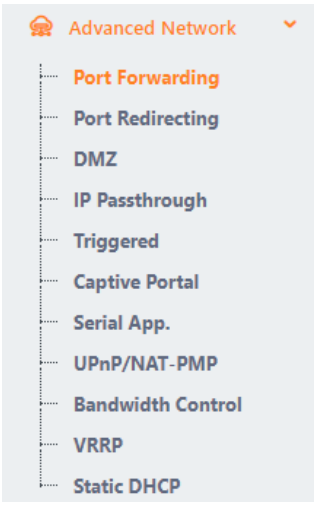
To set a list of allowed devices, simply select **"Permit only the following clients"**, and specify each device's MAC address and description. To set a list of blocked devices, simply select **"Block the following clients"** and specify the MAC addresses and descriptions.

When you are finished, hit **Save** at the bottom.



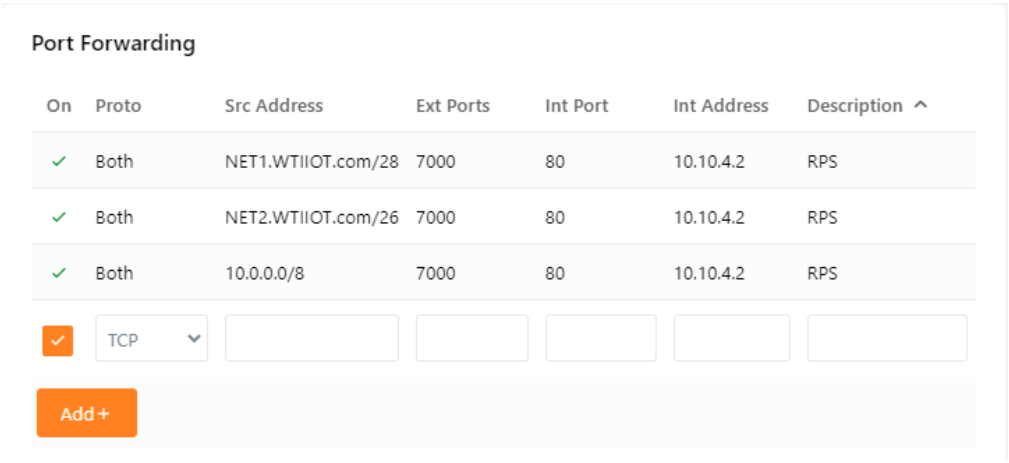
Advanced Network

Port Forwarding



This allows the ability to gain access to other devices connected to the router.

By default, Bolton router comes 2 preconfigured addresses in the port forwarding table as shown below:



To set up a port forward, simply enter your information in the open row in the port forwarding table. Then click **Add.** Your information will be saved to the table and a new blank row appears. Repeat the process as desired. When you are finished, click save to apply the changes.



DMZ

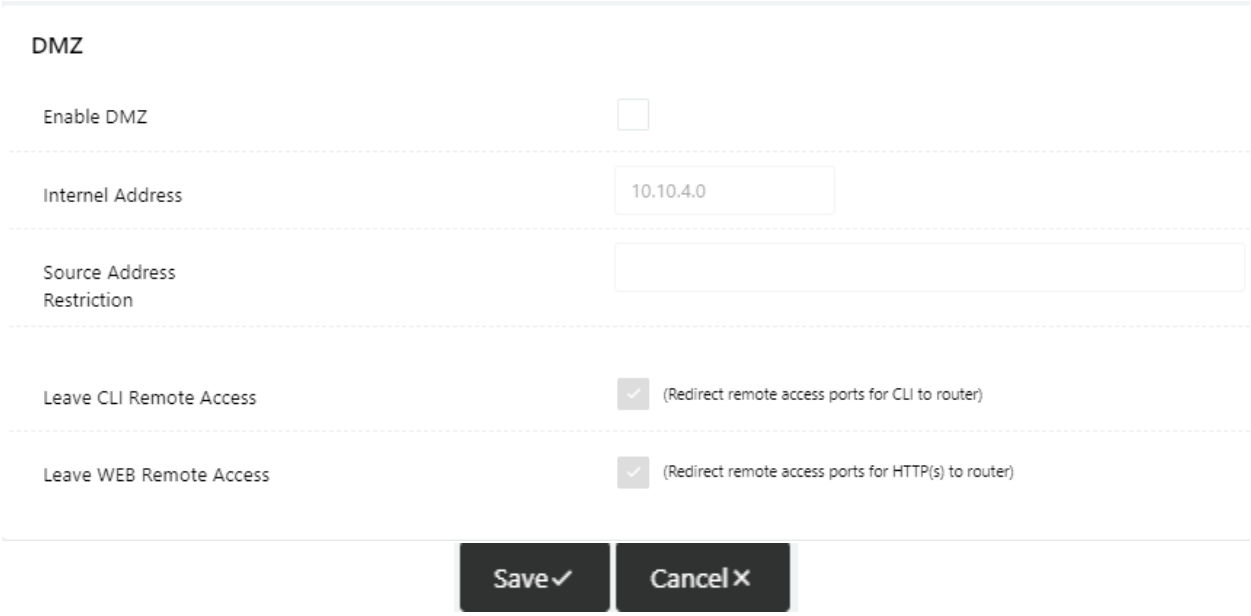


This allows you to set a range in the network that separates your router's LAN from other untrusted networks, such as the public internet. The addresses in the DMZ will be able to be accessed from the internet, but the rest of the router LAN is unreachable.

Check "**Enable DMZ"** to turn on this function.

You will need to set the DMZ internal address, specify the range for restriction with the DMZ, and choose to leave CLI remote access, WEB remote access, or both.

Hit **Save** to apply your changes.

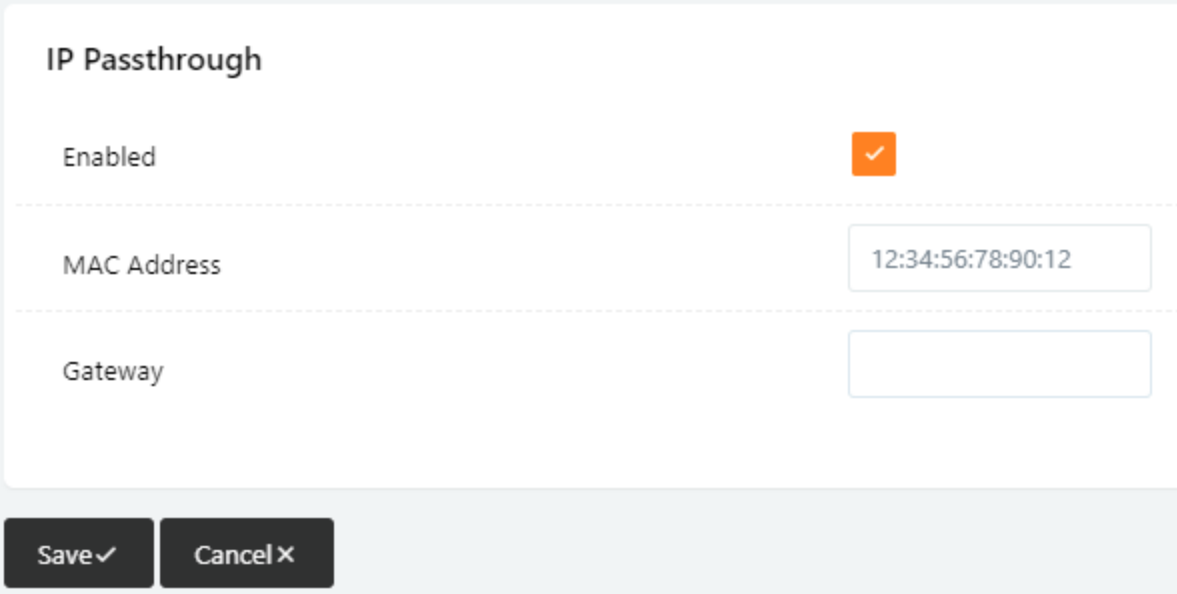


IP Passthrough

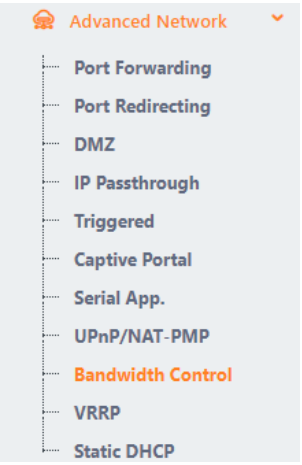


This option enables you to set a single device to obtain the router's public IP address.

You can enable this feature by checking on **"Enabled"**. You will then need to specify the MAC address and Gateway of the device you would like to passthrough to.



You are finished, hit **Save**, and reboot when prompted.



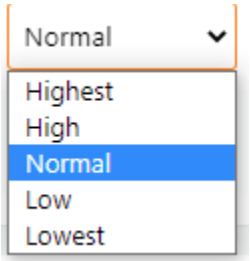
Bandwidth Control

This option enables you to control Download/Upload rates and ceilings, along with priority placement for a single IP address, MAC address, or an IP range.

Check **"Enable Control"** to turn on this feature.

You can set your maximum download and upload speed according to your preference.

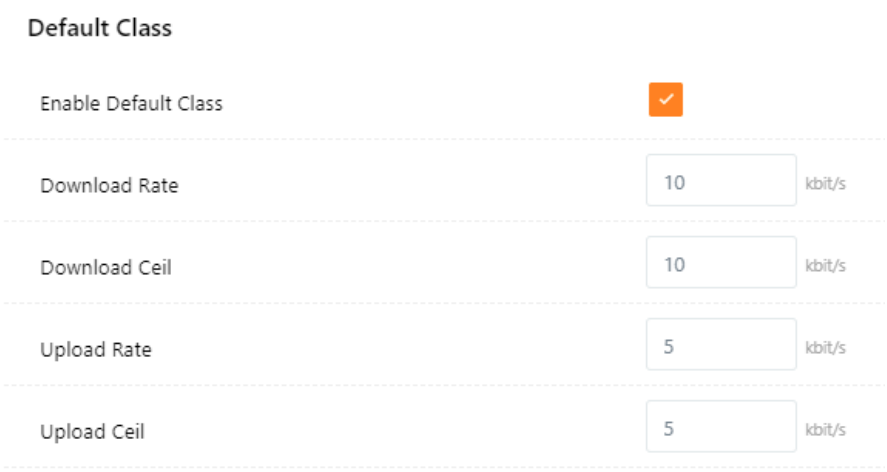
You will then be required to specify either an IP address, IP range, MAC address for bandwidth control.



Specify in Kbps, the rates and ceilings of both the download and upload speeds for your rows created.

Set priority for each row from Lowest to Highest. Click add when done for each row.

You can remove or modify a row by clicking on it. You can then either change your values or click on **Delete** to remove the row.



The default class allows you to set default speeds and ceilings for devices not listed in the bandwidth control list. To enable, simply check **"Enable Default Class"**, then set your rates and ceilings.

Remember to click on **Save** when you finished working on your configurations.

Static DCHP



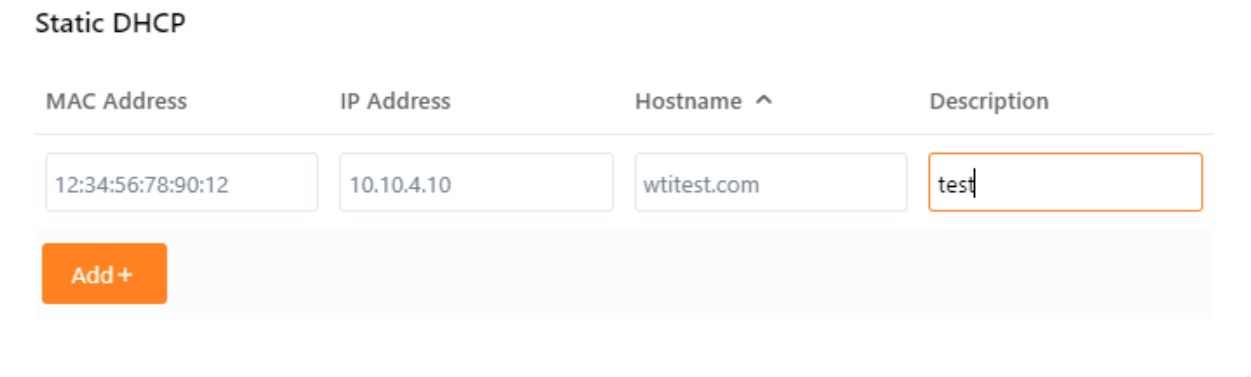
This option enables you to manually assign an IP address to a certain device connected.

Add a new device into a row on the list by entering the device's MAC address, the IP you would like to give it, a hostname (if needed), and a description. Then click **Add** to add the row to the list.

To modify or delete a row, click on the row you would like to make changes to. Modify your row as needed and click **OK** when done. To delete, just click on **Delete**.

To save all your changes, click on **Save.**

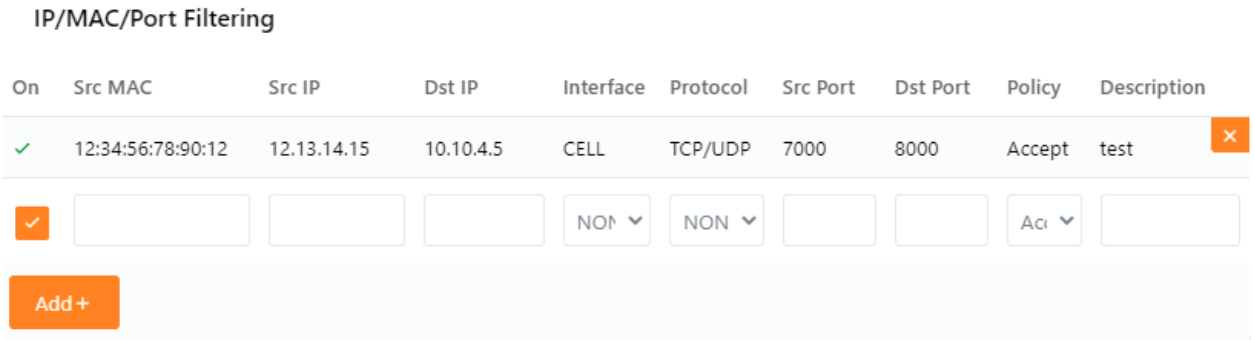




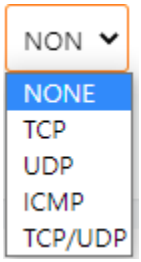
Firewall

IP/MAC/Port Filtering

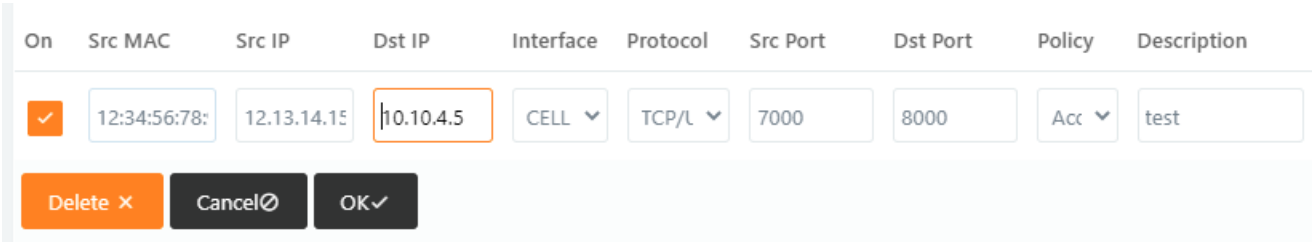
Use this feature to accept or drop connections to the router, using specified IP address or MAC address



Set your source's Mac address in **Src MAC**, the source IP in **Src IP**, and the destination IP in **Dst IP**. Set your **Interface** (cell or WAN [failover]). Set the **Protocol** to what you need. Set your source port in **Src Port** and destination Port in **Dst Port.** You can select the **Policy** of the filter to either accept or drop the source connection to the destination. You can add a description if desired. After you are finished, click add to confirm it to the list.



Click on any existing filter to make changes or delete.





Domain Filtering

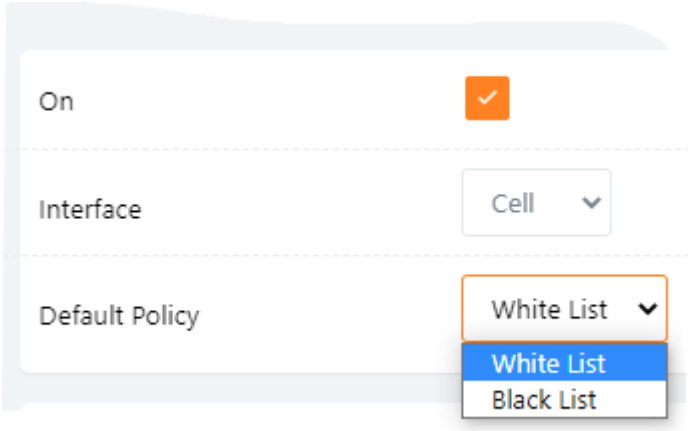
This option allows you to either set certain domains to block (blacklist) or certain domains to allow (whitelist).

Blacklist allows access to any domain except those that you list.

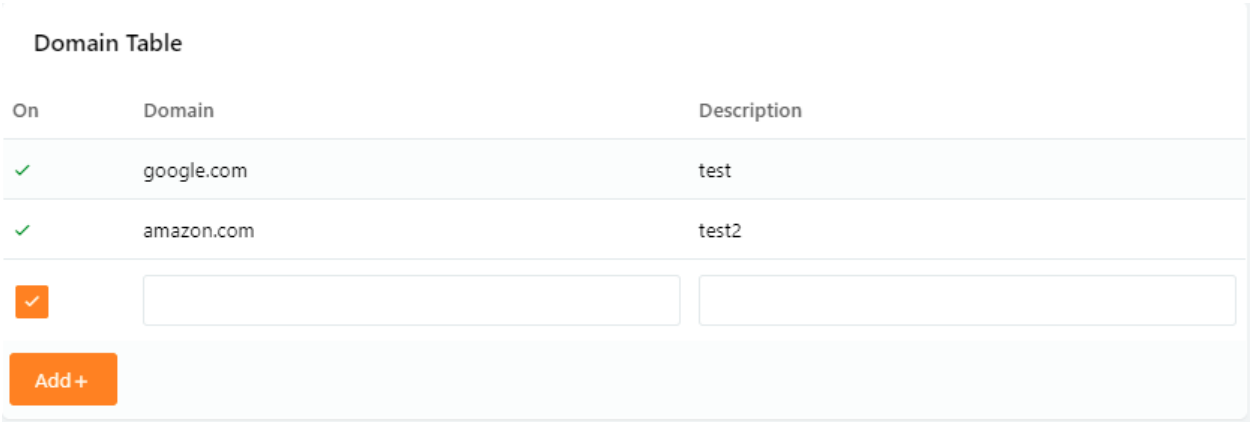
Whitelist blocks every domain except those that you specify.

To enable the feature, first check the **ON** checkbox.

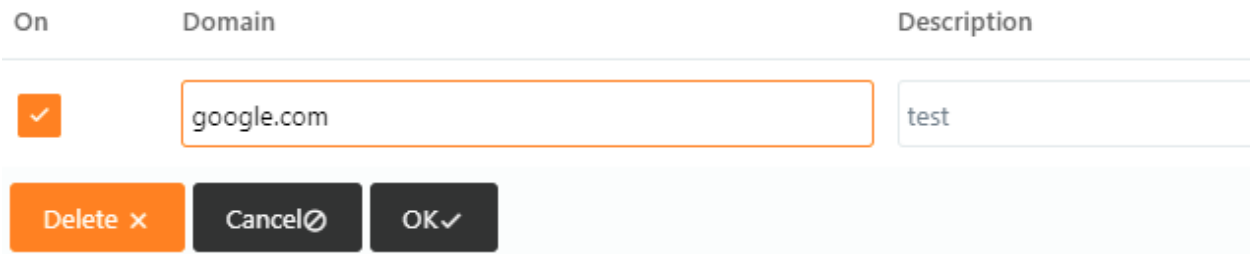
Next, choose the policy that fits your needs, either whitelist or blacklist.



Then type down the domain or domains you like to be listed and descriptions for each (optional). Click add when done for each domain.



To edit or delete simply click on the row you would like to make changes to.



When you are done with configurations to your domain filtering settings, click on Save to apply your domain filters.



VPN Tunnel



OpenVPN Client

Set up a VPN on the router with this option.

There are only 2 clients on the router. Only set configurations for Client 1. Do not modify contents of Client 2 (for Bolton troubleshooting only)!





Basic Settings

To set your VPN to automatically turn on at startup, check **Start with WAN.**



Make your choice between interface types of **TUN** or **TAP.**



Choose your protocol of **UDP** or **TCP**.



Set your VPN Server Address.



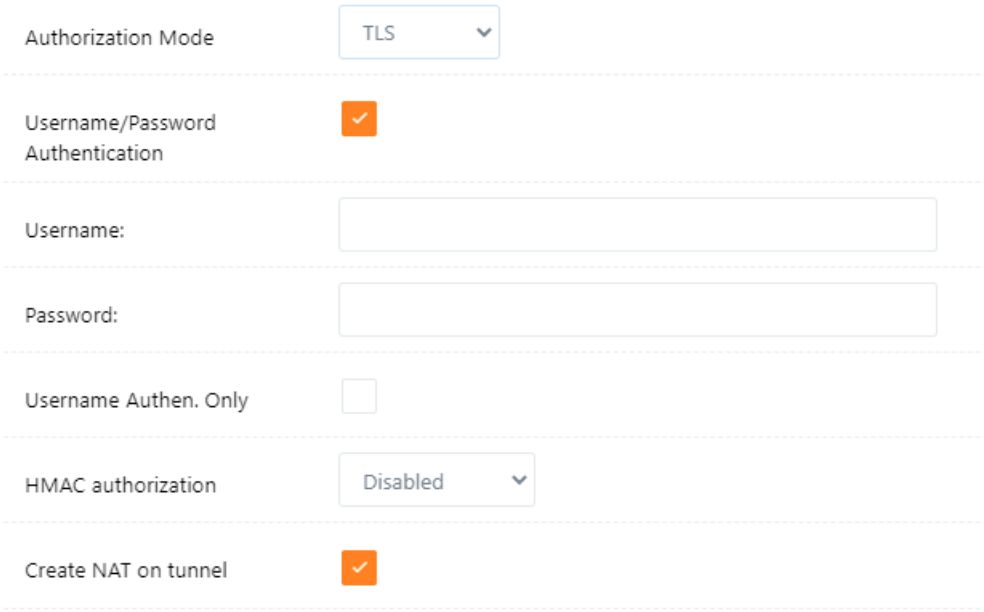
Set firewall to either **Automatic** or **Custom.**



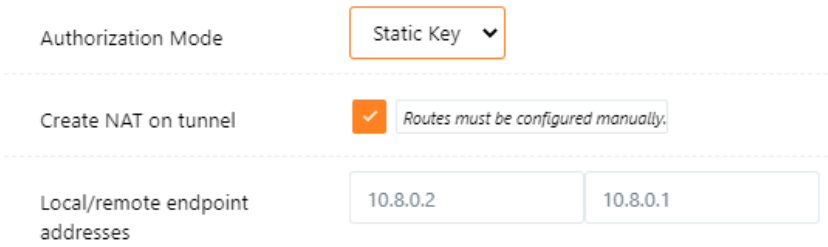
Authorization Mode:

Modes of authorization are explained below

- If set to TLS
  - Check **Username/Password Authentication** and enter credentials for username and password.
  - If needed, check **Username Authen. Only.** (You must have Certificate Authority defined)
  - Set **HMAC authorization** of your choice (Bidirectional, Incoming, or Outgoing)
  - If needed, check **Create NAT on Tunnel.**



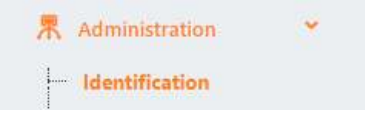
- If set to Static Key
  - Check **Create NAT on tunnel** if needed.
  - Set your local and remote endpoint addresses



- If set to Custom
  - Check **Create NAT on tunnel** if needed.

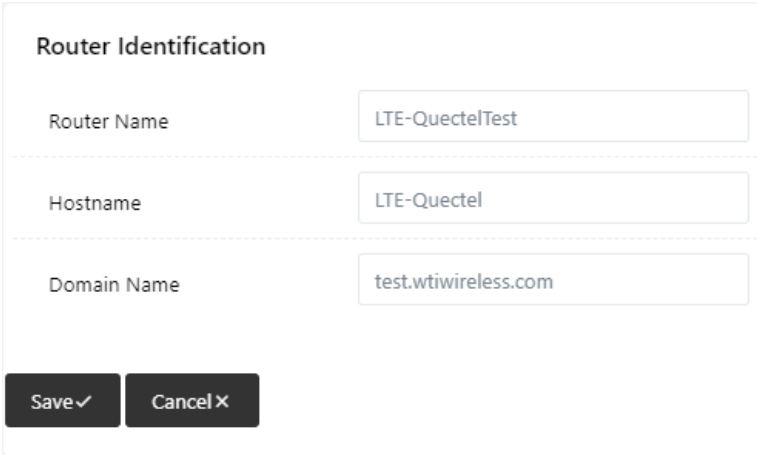
Administration

Identification

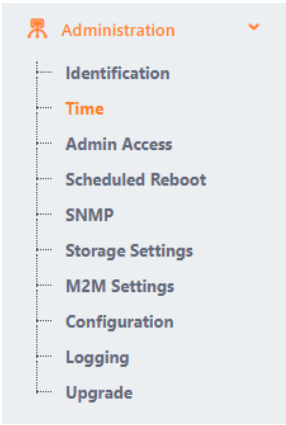


This page allows you to change your **Router Name, Hostname,** and **Domain Name** for your router.

Once you have set everything you need, click on save to apply all your configurations. Reboot your router when prompted.



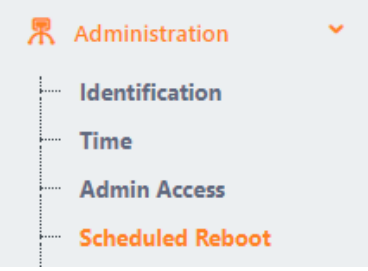
Time



These settings allow router time specific settings. To sync the router time with the local area, click on **Clock Sync.**

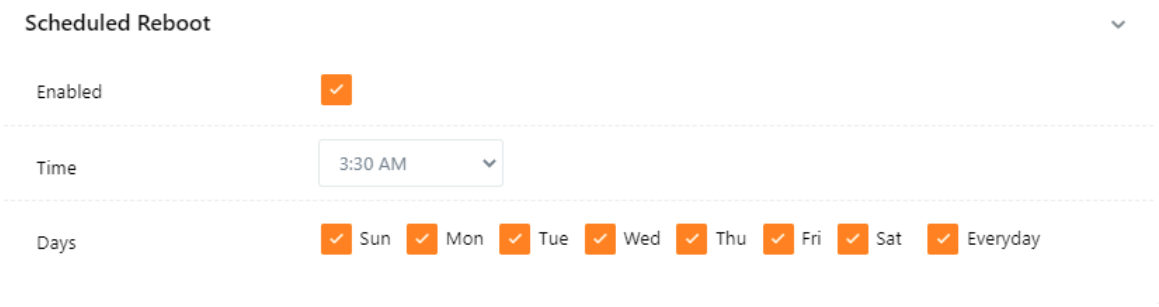
Check on **Auto time Zone** to automatically set your time zone.

Scheduled Reboot

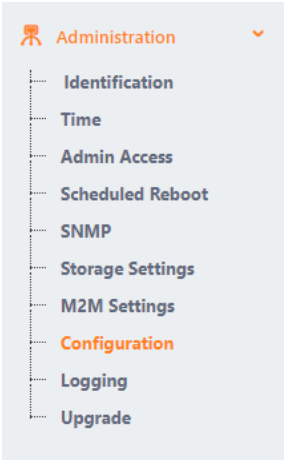


By default, WTIwireless routers are set to reboot daily at 3:30AM.

These settings allow the configuring the scheduling of automatic reboots of the router. To enable, check on **Enabled.** Choose the time of your choice in the dropdown menu below. Then choose which days of the week you would like the router to auto reboot.



Configuration



Use this menu to backup or restore your configurations for your router.

Backup Configuration

To back up the router, simply name the config file to what you would like and click on **Backup.** By default, your browser will download and save the file to your downloads folder, unless specified otherwise.



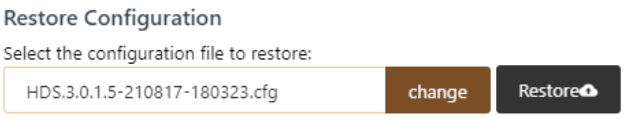
Save As Default Configuration



Use this setting to save all your settings on your router into internal memory to restore later.

Restore Configuration

To restore a saved configuration:



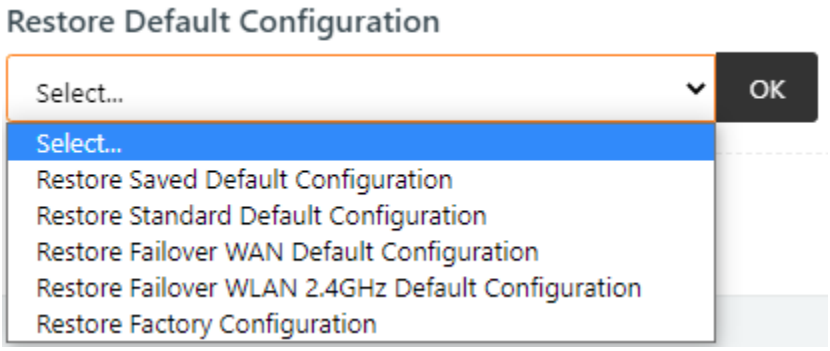
- Click on **Choose File** to point to a saved configuration profile.
- Select the file and click **Open.**
- Click **Restore** to initiate the config restoration. Hit **OK** when prompted. Allow the system to reboot.



Restore Default Configuration

You can restore your router to Factory Configurations or any included presets in the firmware.

- *Restore Saved Default Configuration* – Restores your manual saved configuration that you have in memory (if you have one)(refer to page 36)
- *Restore Standard Default Configuration* – Restores router to a default standard router.
- *Restore Failover WAN Default Configuration* – Restores router to a default failover router.
- *Restore Failover WLAN 2.4 GHz Default Configuration* – Restores router to a wireless failover router.
- ***Restore Factory Configuration*** **–** Clears all memory, and restores router to factory settings. **(THIS WILL ALSO WIPE OUT SAVED DEFAULT CONFIGURATIONS).**



Click **OK** when your selection is made, and allow time for router to reboot.

Tools

Access tools from the upper right menu.



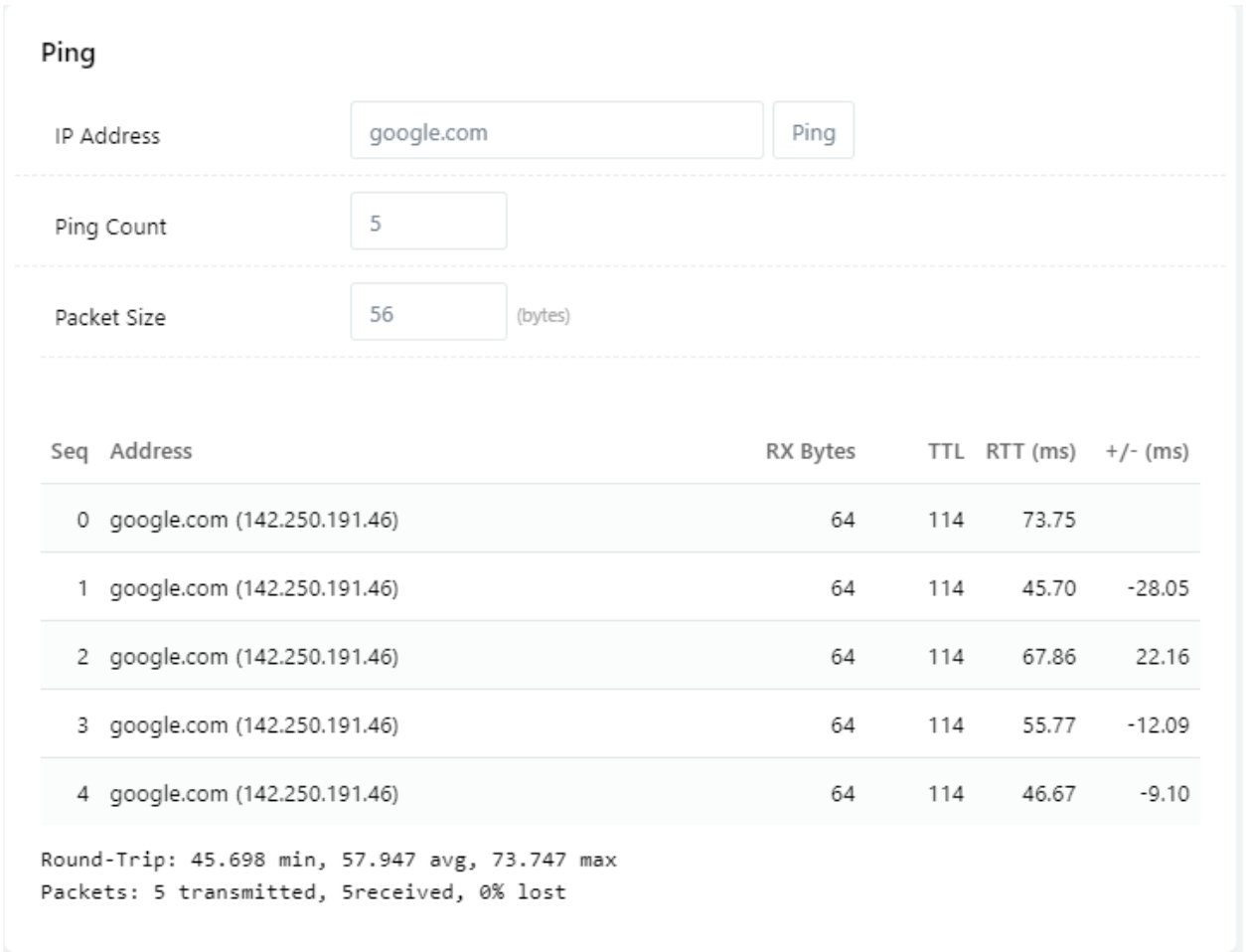
Ping

Use this feature to check communications within the router or from the router to the outside.



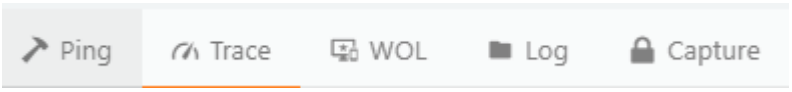
Simply enter the domain or IP address you like to ping the router to, set how many pings to send, and the packet size for each ping. Once set click on **Ping.**

All ping results will be displayed in the chart below along with statistics of the transmission:

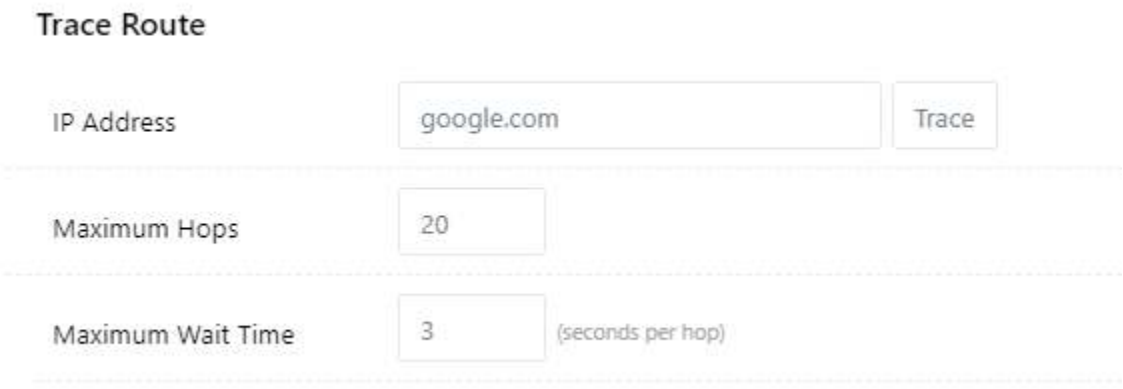


Trace

Use this feature to trace the connection from the router to another destination, along with statistics of transmission (in milliseconds).



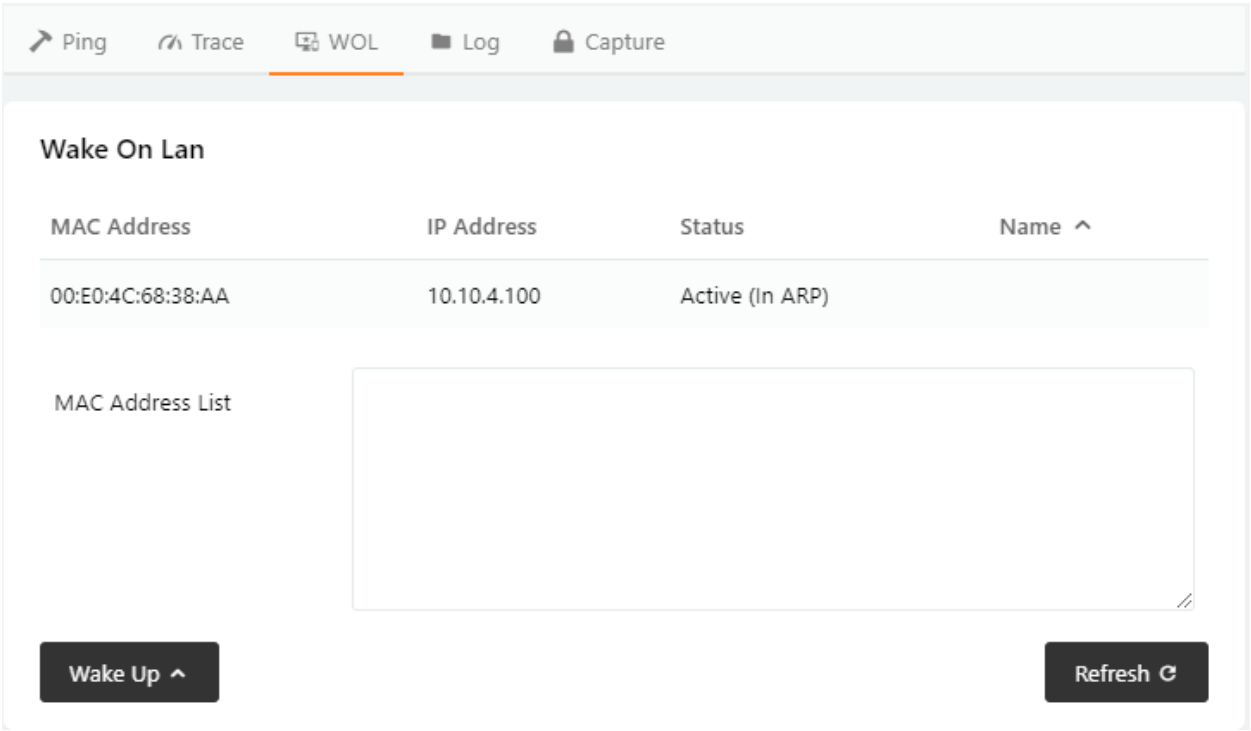
Simply enter the domain or IP address you like to reach, set how many hops to record, and the maximum wait time for each hop in seconds. Once set click on **Trace.**



All trace results will be displayed in the chart below along with statistics of the transmission:

Hop	Address	min (ms)	max (ms)	avg (ms)	+/- (ms)
1	225.sub-66-174-219.myvzw.com (66.174.219.225)	45.61	242.63	112.17	
2	*				
3	*				
4	146.sub-69-83-165.myvzw.com (69.83.165.146)	57.84	94.81	72.47	
5	*				
6	234.sub-69-83-160.myvzw.com (69.83.160.234)	47.65	79.17	60.56	
7	132.sub-69-83-161.myvzw.com (69.83.161.132)	46.75	51.81	48.75	-11.81
8	0.csi1.SNVACANX-MSE01-BB-SU1.ALTER.NET (140.222.6.94)	50.81	55.73	52.71	3.95
9	*				
10	*				
11	0.ae2.GW8.SJC7.ALTER.NET (140.222.2.25)	47.73	75.10	61.52	
12	72.14.204.132	43.67	59.79	50.43	-11.09
13	216.239.40.18	48.81	49.78	49.40	-1.03
14	142.251.65.129	43.56	49.65	47.34	-2.06
15	nuq04s42-in-f14.1e100.net (142.250.191.46)	49.83	55.31	52.57	5.23

WOL (Wake On Lan)



Logs

You can view your router logs from here.

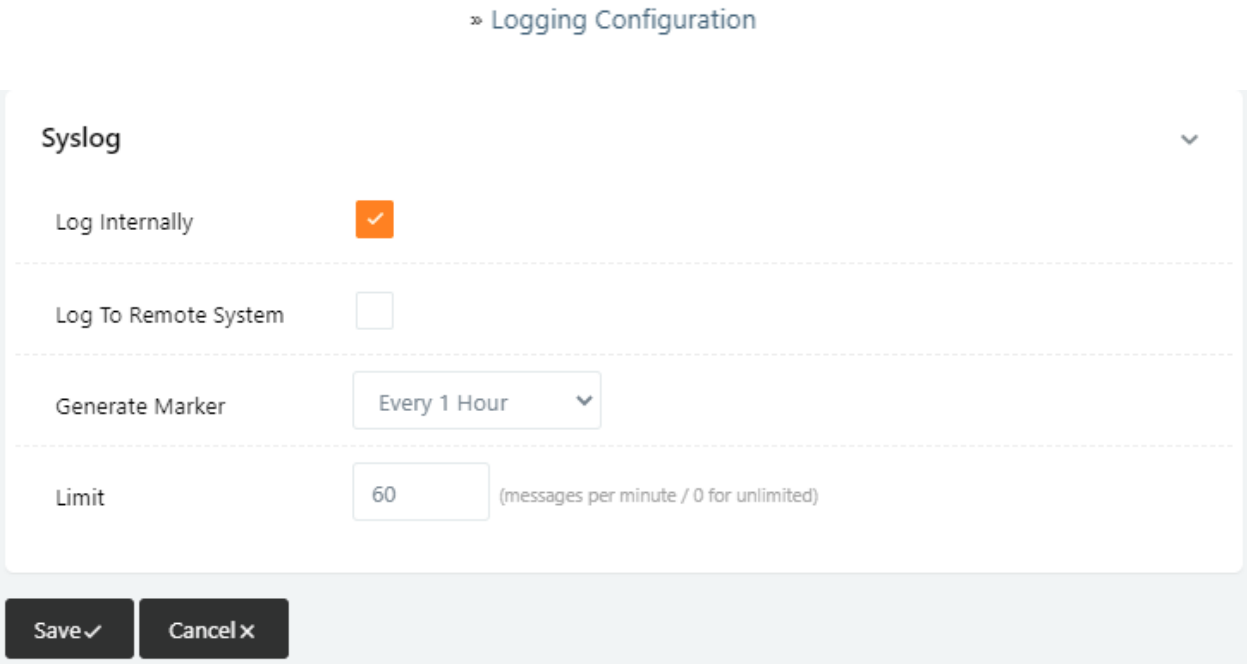


Click on **View** to see the most current log in a new browser tab.

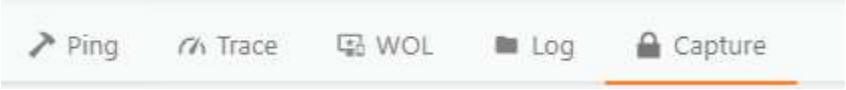
```
Sep 17 08:43:31 LTE-Quectel user.info modem_checkdial[623]: --->Cellular Statu
3,6,we01.VZWSTATIC,166.144.198.228,38.0.16.16.176.47.243.255.0.0.0.40.225.118.
"20/09/17,15:43:49-28"^M ^M OK^M ^M +COPS: 0,0,"Verizon Wireless",7^M ^M OK^M
Sep 17 08:43:31 LTE-Quectel user.info modem_checkdial[623]: --->Cellular Statu
Sep 17 08:43:31 LTE-Quectel user.notice modem_checkdial[623]: Search Cellular
3,6,we01.VZWSTATIC,166.144.198.228,38.0.16.16.176.47.243.255.0.0.0.40.225.118.
"20/09/17,15:43:49-28"^M ^M OK^M ^M +COPS: 0,0,"Verizon Wireless",7^M
Sep 17 08:43:31 LTE-Quectel user.notice modem_checkdial[623]: tick 749-----
Sep 17 08:43:33 LTE-Quectel user.notice modem_checkdial[623]: Modem Control Po
3,6,we01.VZWSTATIC,166.144.198.228,38.0.16.16.176.47.243.255.0.0.0.40.225.118.
Sep 17 08:43:33 LTE-Quectel user.info modem_checkdial[623]: --->Cellular Statu
3,6,we01.VZWSTATIC,166.144.198.228,38.0.16.16.176.47.243.255.0.0.0.40.225.118.
```

You can also download the most current log to a local directory in your computer. Click on **Download Log File.** By default, it should save to your **Downloads** folder.

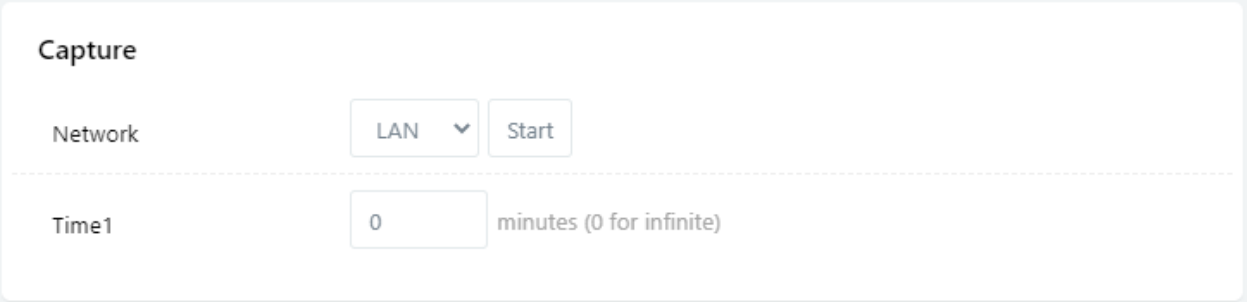
Clicking on logging configuration will take you back to **Logging** settings in administration.



Capture



Use this feature to obtain a network capture in the router.

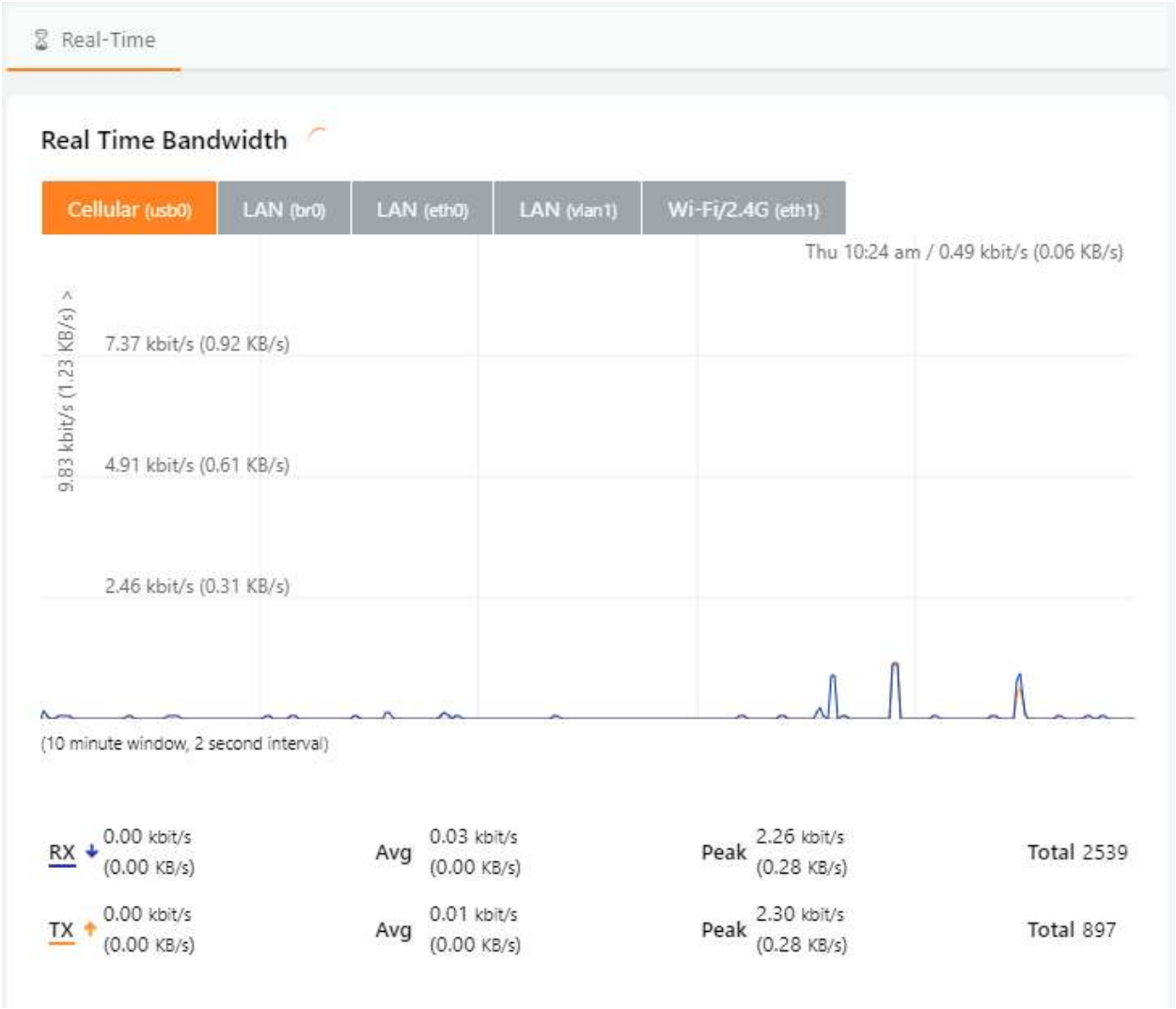


Choose to either capture between the LAN and WAN ports, set how long to capture the network, and click on **Start.** A live capture of a pcap file is saved to your specified save directory until you either reach the time limit or manually stop the capture. You can view your captures with a network tool that opens pcap files, like Wireshark.

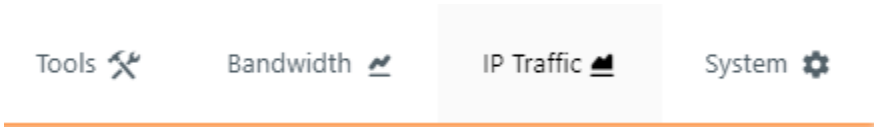
Bandwidth



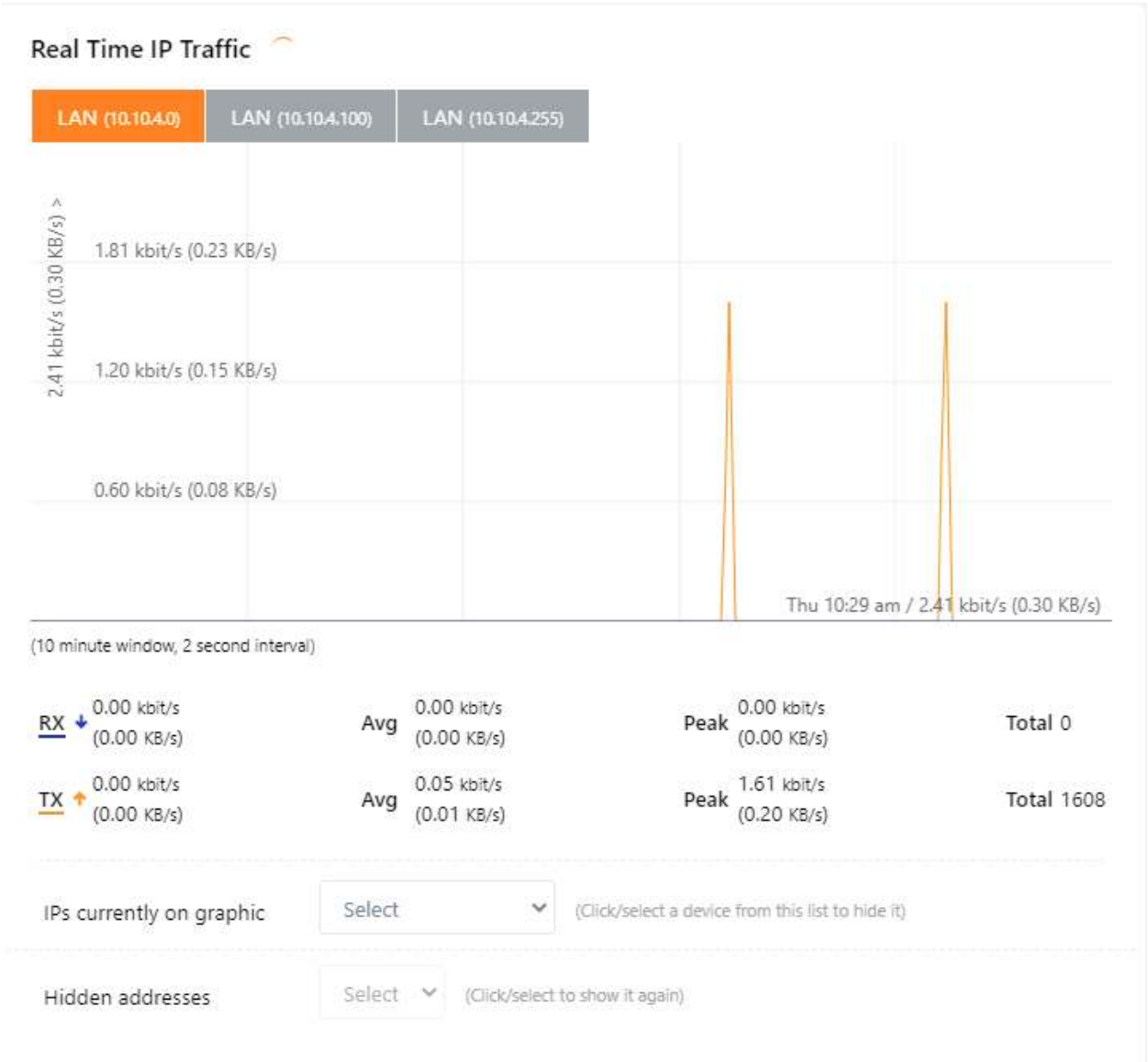
You can view bandwidth information real time of Cellular, LAN devices, and Wi-Fi.



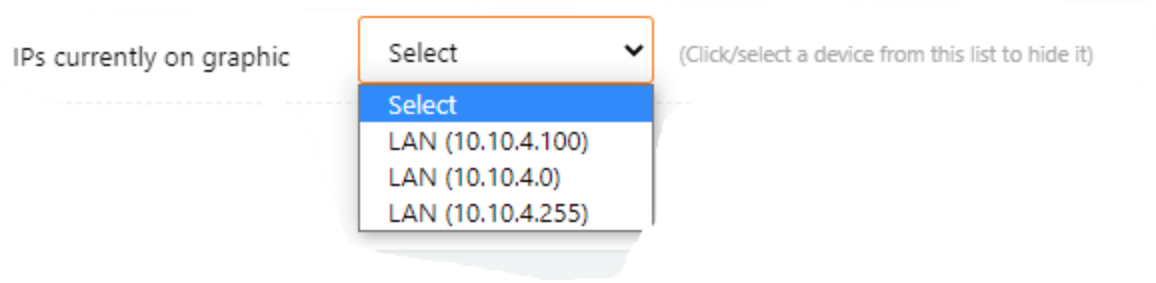
IP Traffic



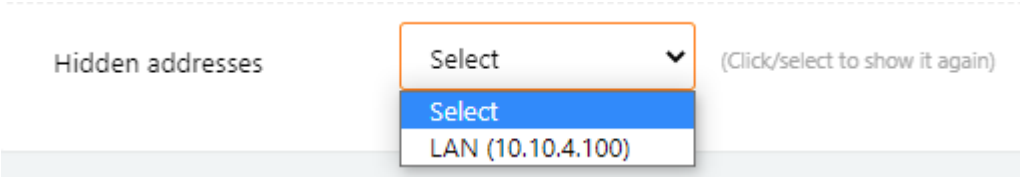
You are able to take a look at the information of real-time IP traffic occurring with LAN devices with real time charting.



By default, all LAN devices will be shown in the chart. Select a LAN interface in *IP's currently on graphic* to hide any of them.



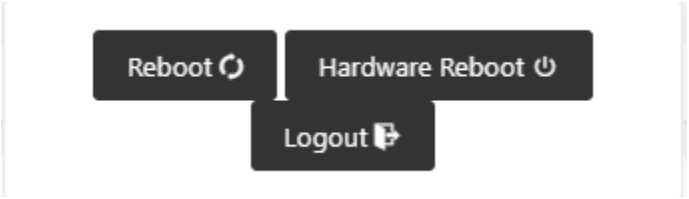
To restore a device to the list, select from *Hidden Addresses.*



System



Clicking on System allows you to choose your logout or reboot options.



To logout of the interface, simply click on *Logout.*

For both *Reboot and Hardware Reboot,* once clicked, you will need to Click OK when prompted to reboot.



You will see a reboot screen.

