



**User Guide**

# **Verizon Internet Gateway**



# Revision History

Date (yyyy/mm/dd)	Ver.	Revised Sections	Descriptions
2022/05/11	0.1	Preliminary draft	Preliminary release
2022/05/16	0.2	Chapter 1 and 2	Enhanced graphics and updated contents
2022/05/20	0.3	Cover page	Modified product name and added model number
2022/06/07	0.4	Chapter 5	Added Chapter 5 to provide Web GUI walkthrough

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# 1. Inside the box

Thank you for choosing Verizon Internet Gateway (Model Num. FSNO21VA). Once you open the product package, you should find the following items inside:

## Verizon Internet Gateway



## Power Adapter



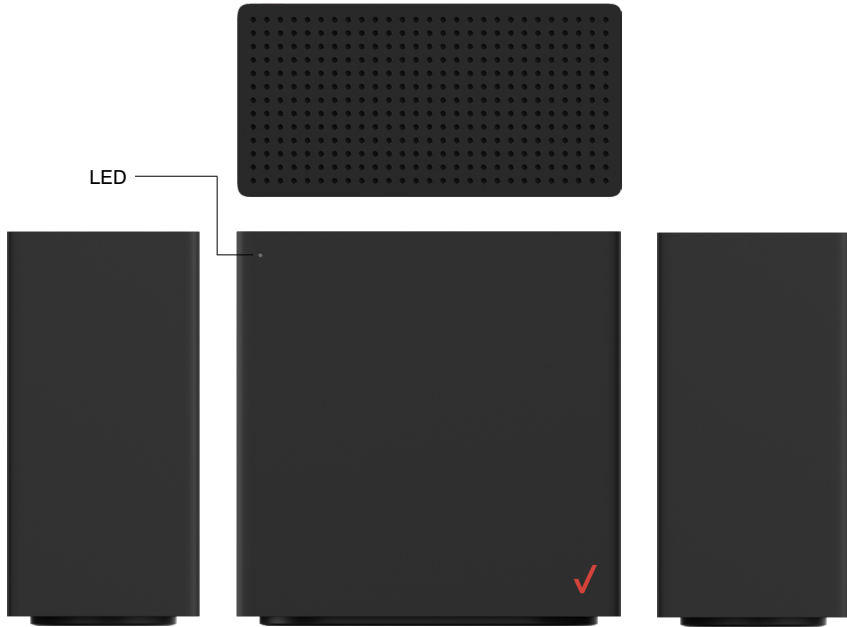
## Ethernet Cable

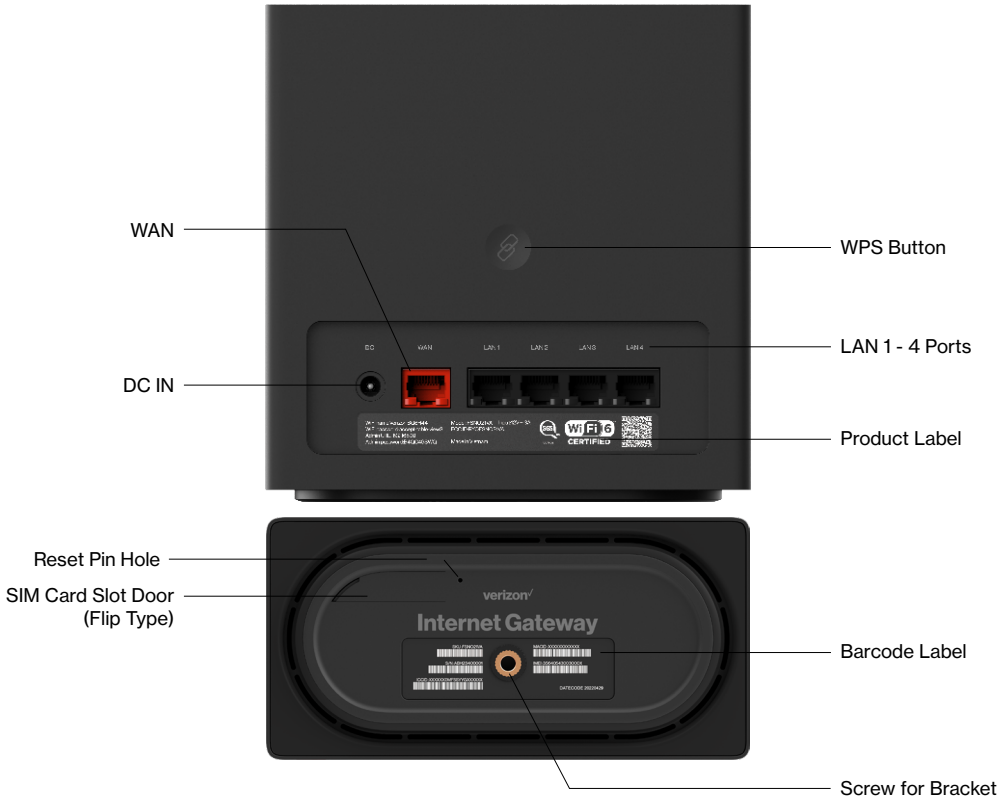


## 2. Introducing Your Verizon Internet Gateway

Your Verizon Internet Gateway supports multi-connectivity of 5G, 4G LTE, and Wi-Fi 6 to provide users with fast wireless networks, and offers connectivity up to 128 devices (64 devices for 2.4 GHz and 5.0 GHz each) within the range. This feature-rich router is also designed with various functions including band-steering, security, routing, and service improvements.

Take a quick tour of your device.
















## 2.1 Parts and Functions











Parts	Description
<b>LED</b>	Indicate the status of power and connectivity, as well as WPS connectivity.
<b>LAN 1 - 4 ports</b>	Four RJ-45 GbE LAN ports for connections with external devices through Ethernet cable(s).
<b>WAN</b>	The WAN port supports WAN connectivity using another CPE (customer premise equipment) or external modem.
<b>DC IN</b>	DC Power In - The DC power jack that connects the 5G Internet Router to a power outlet.
<b>WPS button</b>	Push this button to enable WPS (Wi-Fi Protected Setup). Use WPS to add supported Wi-Fi devices to your network. Remember to enable WPS on the Wi-Fi devices you wish to add.
<b>SIM card slot door</b>	Flip the door cover to locate the SIM card slot and insert/remove Nano SIM card.
<b>Reset pin hole</b>	Press the reset pin hole with pin to force a cold reset of your router. Your router will return to factory default setting. Only use the Reset when you experience issues with the router or have to revert all the settings you have configured for the router.
<b>Label</b>	The label provides default URL and password for you to connect to wireless network at the first time you set up this device. The label also provides information about the product's ID and regulatory standards.



## 2.2 LED Status and Indications

LED Mode	Status	LED Pattern
<b>Bootup</b>	System Off	Off 
	System Booting	Soft Blink White 
	Firmware Update (FOTA)	Fast Blink White 
<b>Cellular signal (or after single-clicking the pair button)</b>	Passing Signal	Solid White 
	No Signal, Cold SIM	Solid Red 
	No SIM Card	Hard Blink Red 
<b>Regular usage</b>	Setup Complete	50% Bright White 
	Wi-Fi Disabled by User	Solid Green 
<b>Paring</b>	WPS Pairing	Hard Blink Blue 
<b>Other</b>	Factory Reset	Fast Blink Yellow 
	FW Error	Soft Blink Red 

## 2.3 Ethernet Port LED Mode

Ethernet Port LED Mode	Status	Left LED	Right LED
<b>Wired LAN connection</b>	Ethernet > 100M* Link	Off 	Solid White 
	Ethernet > 100M* Activity	Off 	Blinking White 
	Ethernet < 100M* Link	Solid Yellow 	Off 
	Ethernet < 100M* Activity	Blinking Yellow 	Off 
	No Ethernet Connection	Off 	Off 

**Note about \*:** Threshold level can be determined based on port capability.

# 3. Setting Up Your Verizon Internet Gateway

Your Verizon Internet Gateway comes with a pre-installed SIM card and the following sections will help you connect and configure your device to the network.

**Note:** Before you start setting up your router, remove the protective film on the housing first to prevent overheating.

## 3.1 Positioning Your Router

Before setting up the router, it is recommended to take the following into considerations for optimal signal strength:

- Near a window where the signal is mostly uninterrupted
- On a flat surface
- In an open space with as few blocking objects or obstructions as possible
- Elevated surface
- Keep the router away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, heavy-duty motors, fluorescent lights, and some industrial equipments that may generate signal interferences with your router.
- Avoid positioning it
  - next to a wall that may obstruct the signal
  - near heavy-duty appliances
  - close to metal fixtures, enclosures, cabinets, or thick concrete.
  - in a basement

**Note:** Try not to reposition the router if the signal is good. If the position of the installation changes, the signal strength may be affected.

## 3.2 Setup Requirements

To configure wireless network with a PC, your computer shall meet the following requirements:

- For Wired Connection --> Ethernet RJ 45 (LAN) port (10Base T/100Base TX/1000BaseTX)
- For Wi-Fi Connection --> IEEE 802.11a/b/g/n/ac /ax wireless capability
- TCP/IP protocol support
- Web browser such as Microsoft Edge , Firefox, Safari, or Google Chrome

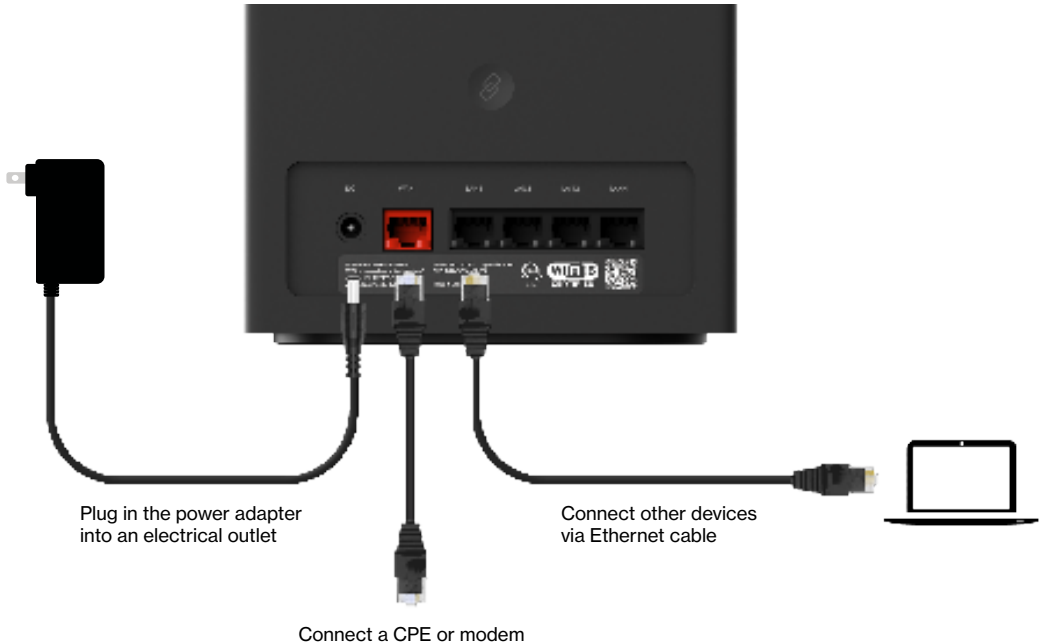
## 3.3 Setting Up

1. Connect the included Power Adapter to the DC IN power port of the router.
2. Plug the Power Adapter to an electrical outlet.
3. Wait for a short moment for the router to power up and connect to 4G LTE/5G network.
4. The LED shall display ON (White) after powering up.
5. Your Internet device shall be able to connect to the Wi-Fi network of your router named **Verizon\_<your network>**.

For information about the default name and password of the router's Wi-Fi network, check the product label on the back side of your router.

### Connecting via Ethernet

- The router can connect to other devices via Ethernet connections. Use the supplied Ethernet cable and plug one end into one of the LAN ports of the router (as shown below), and plug another end of the cable into an available LAN port of the other device.
- The router can also connect to a CPE or an external modem via WAN port by using the supplied Ethernet cable.



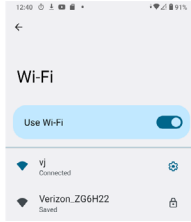
# 4. Log in Your Verizon Internet Gateway

Once you have connected your device to your router, you can log in to your router's Web User Interface (Web UI) to access network information such as connected devices and data usage, and to configure the setting and functions, such as Wi-Fi security. You may log to the Web UI through a computer or a mobile device.

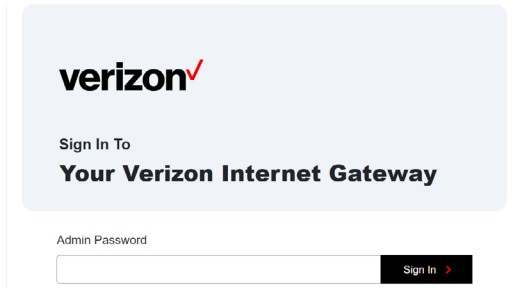
The following sections will describe how to access the Web UI and perform your configurations.

## 4.1 Connect and Log in via Wi-Fi

1. You can automatically connect your device by scanning the QR code on the product label. To connect manually, move to step 2.
2. Scan available Wi-Fi networks with your mobile device (the image below is a sample screenshot from a mobile phone).



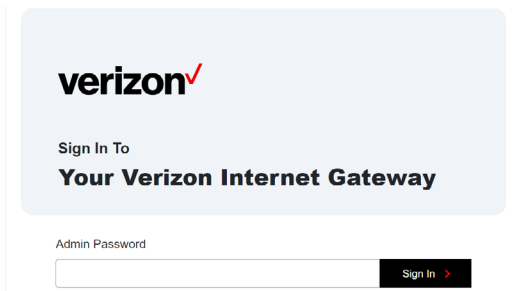
3. Select the Wi-Fi network named **Verizon\_<your network>** (check your router's product label on the back side for your unique Wi-Fi network name).
4. Enter your Wi-Fi password , which can also be found on your router 's product label on the back side of the unit.
5. Open a web browser and enter the router's default address **http://192.168.0.1** in the address bar.



6. Log in using the default password (the default address and password are displayed on the product label on the back side of the router, labeled **Admin URL and Admin password**).

## 4.2 Connect and Log in via Ethernet

1. You can use an Ethernet cable to connect your computer to the router 's LAN port for configuration (instead of Wi-Fi). Simply connect to one of the four LAN ports by using the supplied Ethernet cable.
2. Open a web browser and enter the router 's default address **http://192.168.0.1** in the address bar.
3. Log in default password (the default address and password are displayed on the product label on the back side of the router, labeled **Admin URL and Admin password**).



**verizon**<sup>✓</sup>

Sign In To  
**Your Verizon Internet Gateway**

Admin Password

Sign In >

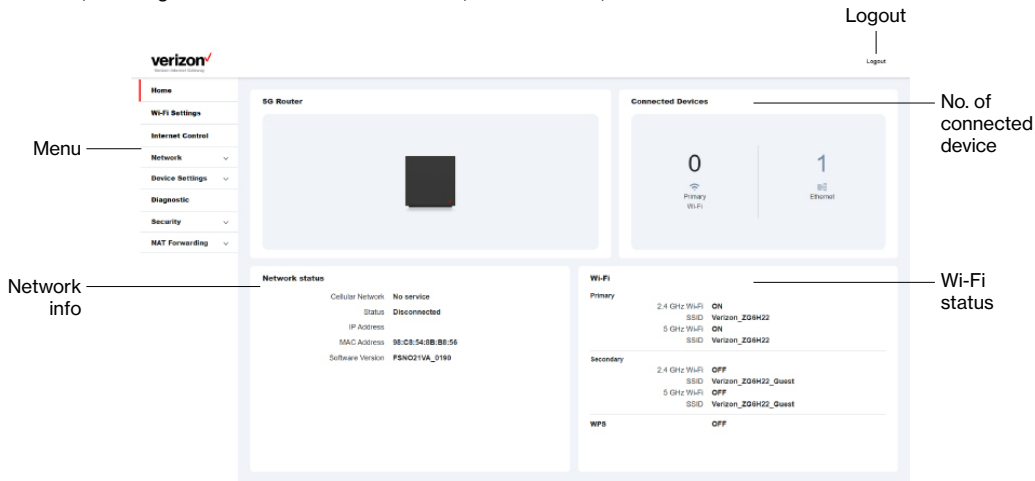
# 5. Configuring with Your Router with Web GUI

You can configure functions of your router on the Web GUI. To access the Web GUI, open a web browser and enter the gateway's admin address <http://192.168.0.1> in the address bar. Then, enter the default admin password (check the product label of your gateway for your default admin password).

## 5.1 Home

> Home

The **Home** page features the Menu at the left side to navigate the functions, and shows the general system information of your router, including the number of connected devices, network status, and Wi-Fi status.



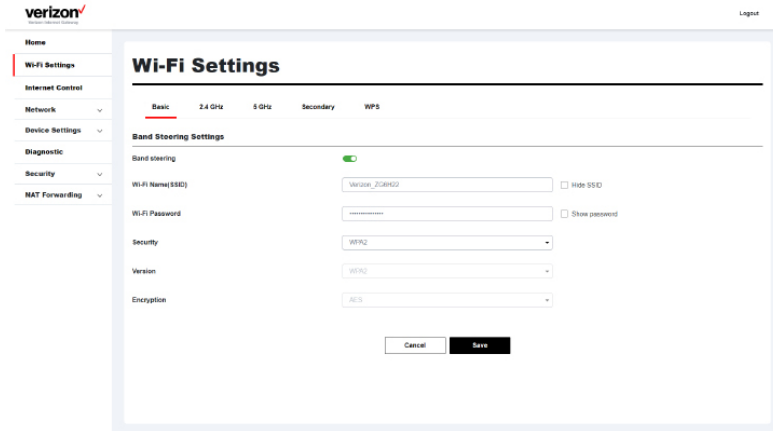
<b>Menu</b>	Use the Menu at the left side to navigate functions of your router, such as Wi-Fi Settings, Internet Control, Device Settings, Network, Diagnostic, Security, and NAT Forwarding.
<b>Logout</b>	Click it to log out. You will be asked if you want to continue to log out.
<b>No. of connected device</b>	Shows the number of connected devices via Wi-Fi (Primary) and Ethernet.
<b>Network info</b>	Displays general network information, including Cellular Network, Status, IP Address, MAC Address, and Software version
<b>Wi-Fi status</b>	Shows the general status of the Wi-Fi connections of your router.

**Note:** the images in this chapter serve as reference only and are subject to change due to future updates without prior notices.

# 5.2 Wi-Fi Settings

## > Wi-Fi settings

From the Wi-Fi Settings screen, you can set your bandsteering preferences, Wi-Fi name (SSID) and password, security level, and encryption types. Your router supports dual-band Wi-Fi frequencies (2.4GHz and 5GHz) for enhanced wireless network performance.



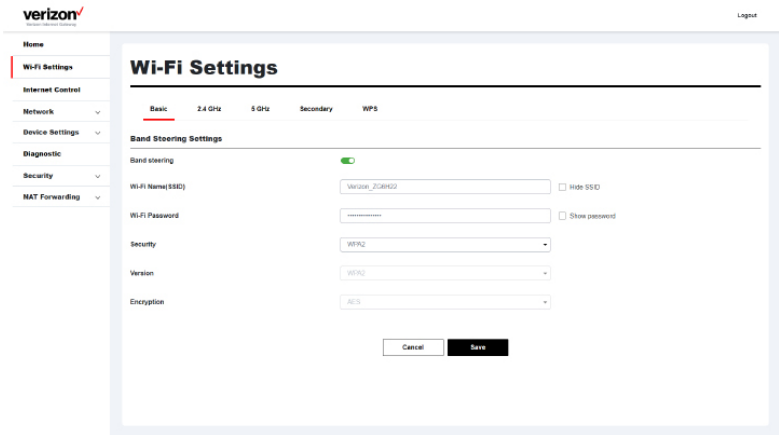
## 5.2.1 Basic

### > Wi-Fi settings > Basic

From the Basic page, you can configure your basic Wi-Fi settings.

Band Steering enables your router to dynamically assign wireless devices (smartphones, laptops, or tablets) to their capable frequency (2.4GHz or 5GHz). For example, if your device supports 5GHz band, it will be steered to that frequency while legacy connected devices are assigned to 2.4GHz. When Band Steering is enabled, your dual-band router will have one Wi-Fi name (SSID).

To save changes, click **Save**.



## Bandsteering settings

<b>Band steering</b>	<p>Use the toggle switch to enable or disable it. When Band Steering is enabled, your dual-band router will show one Wi-Fi name (SSID), and your wireless devices will be assigned to their capable frequencies (2.4GHz or 5GHz) automatically. When enabled, all the settings in this tab can be configured.</p> <p><b>Note:</b> Information under Basic Tab is automatically filled on 2.4 GHz and 5 GHz Tabs. It should not be updatable in 2.4 GHz and 5 GHz Tab</p>
<b>Wi-Fi Name (SSID)</b>	This is the name of your Wi-Fi network for identification, which is also known as “SSID”.
<b>Wi-Fi Password</b>	Enter the password for your Wi-Fi network. A complex, strong password is highly recommended.
<b>Security</b>	Select a Wi-Fi security type from the drop down menu, which includes None, Mix WPA/WPA2, WPA2, and WPA3.
<b>Version</b>	Shows which version of security type is in use. The version corresponds to the selected Wi-Fi security type.
<b>Encryption</b>	Displays encryption type according to the selected version. AES encryption is the default encryption type for WPA standards.



## 5.2.2 2.4GHz/5.0GHz

> Wi-Fi settings > 2.4GHz / 5GHz

If you disable Band Steering, you will have to configure 2.4GHz or 5GHz separately in their respective tab(s).

The screenshot shows the Verizon Business Gateway web interface. The left sidebar contains navigation options: Home, Wi-Fi Settings (selected), Internet Control, Network, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Wi-Fi Settings" and has tabs for Basic, 2.4 GHz (selected), 5 GHz, Secondary, and WPS. Under the "2.4 GHz Wi-Fi Settings (Band Steering ON)" section, there are fields for: Wi-Fi 2.4G (toggle), Wi-Fi Name (SSID) (text input with "Hide SSID" checkbox), Wi-Fi Password (password input with "Show password" checkbox), Security (dropdown menu set to WPA2), Version (dropdown menu set to WPA2), Encryption (dropdown menu set to AES), Channel Settings (Mode: 802.11n mixed, Channel: Auto, Channel Bandwidth: 20/40 MHz).

The screenshot shows the Verizon Business Gateway web interface. The left sidebar contains navigation options: Home, Wi-Fi Settings (selected), Internet Control, Network, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Wi-Fi Settings" and has tabs for Basic, 2.4 GHz, 5 GHz (selected), Secondary, and WPS. Under the "5 GHz Wi-Fi Settings (Band Steering ON)" section, there are fields for: Wi-Fi 5G (toggle), Wi-Fi Name (SSID) (text input with "Hide SSID" checkbox), Wi-Fi Password (password input with "Show password" checkbox), Security (dropdown menu set to WPA2), Version (dropdown menu set to WPA2), Encryption (dropdown menu set to AES), Channel Settings (Mode: 802.11ac, Channel: Auto, Channel Bandwidth: 20/40 MHz).

## 2.4GHz / 5GHz Wi-Fi settings

<b>Wi-Fi 2.4G/5G</b>	Use the toggle switch to enable or disable this Wi-Fi frequency.
<b>Wi-Fi Name (SSID)</b>	This is the name of this Wi-Fi network for identification
<b>Hide SSID</b>	Check the box to hide your SSID. When hidden, the SSID will not be visible as an available Wi-Fi network to clients. Clients must manually enter the SSID in order to connect. A hidden SSID is more secure.
<b>Wi-Fi Password</b>	Enter the password for this Wi-Fi network. A complex, strong password is highly recommended.
<b>Security</b>	Select a Wi-Fi security type from the drop down menu, which includes None, Mix WPA/WPA2, WPA2, and WPA3.
<b>Version</b>	Shows which version of security type is in use. The version corresponds to the selected Wi-Fi security type.
<b>Encryption</b>	Displays encryption type according to the selected version. AES encryption is the default encryption type for WPA standards.

## 2.4GHz / 5GHz Channel settings

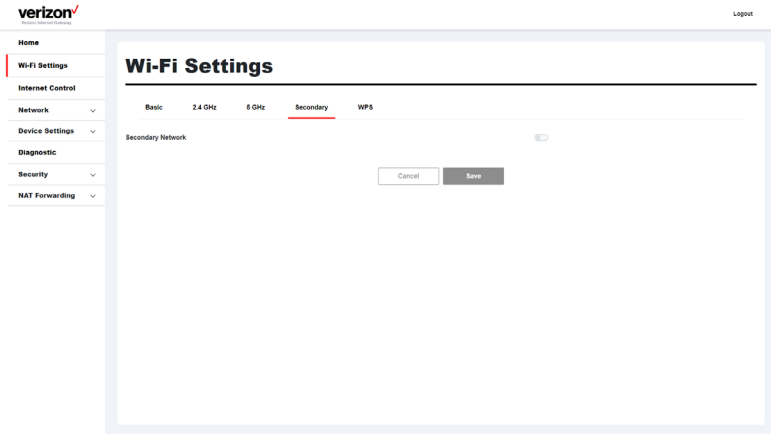
<b>Mode</b>	Select the wireless standard for the router's Wi-Fi network. The supported standards for 2.4 GHz include 802.11b only, 802.11b/g mixed, 802.11g/n mixed, and 802.11ax. The supported standards for 5 GHz include 802.11a only, 802.11a/n mixed, 802.11ac only, 802.11a/ac/n mixed, and 802.11ax.
<b>Channel</b>	Select a wireless radio channel from the drop-down menu. The default is <b>Auto</b> . Changing the radio channel may positively or negatively influence the signal depending on how crowded the channel is with other radio signals and interference.
<b>Channel Bandwidth</b>	Set the channel bandwidth: <ul style="list-style-type: none"><li>• 20 MHz (lower performance but less interference)</li><li>• 20/40 MHz (40 MHz offers higher throughputs and better performance, but higher interferences)</li><li>• 20/40/80 MHz (for 5 GHz)</li><li>• 20/40/80/160 MHz (for 5 GHz)</li></ul>

To save changes, click **Save**.

## 5.2.3 Secondary

> **Wi-Fi settings** > **Secondary**

If you enable this setting, you can add a 2.4 GHz / 5 GHz Secondary Network for better channel utilization and preventing guest(s) from accessing your primary Wi-Fi network. Once enabled with the toggle switch, you can set the SSID, password, and security type for the secondary network.



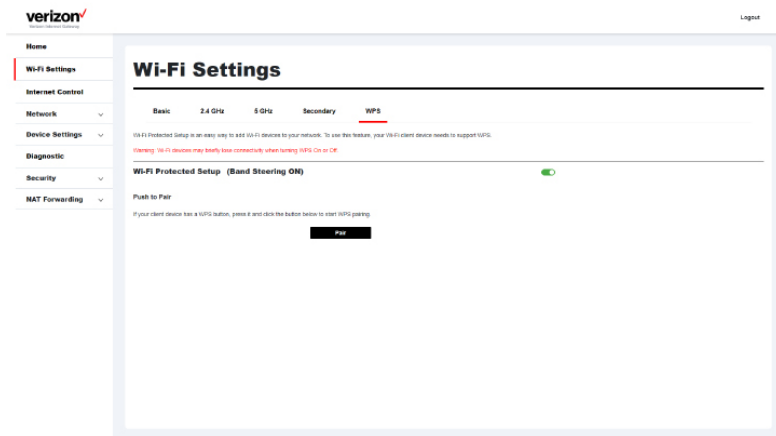
To save changes, click **Save**.

## 5.2.4 WPS

> **Wi-Fi settings** > **WPS**

Wi-Fi Protected Setup (WPS) is a simple way to add Wi-Fi devices to your network. To use this function, your Wi-Fi client device(s) must be WPS compatible.

If your client device has a WPS button, push it and click the **Pair** button below to start WPS pairing.



The screenshot shows the Verizon Business Internet Gateway setup page. On the left is a navigation menu with options: Home, Wi-Fi Settings (selected), Internet Control, Network, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Wi-Fi Settings" and has tabs for Basic, 2.4 GHz, 5 GHz, Secondary, and WPS (selected). Below the tabs, there is a note: "Wi-Fi Protected Setup is an easy way to add Wi-Fi devices to your network. To use this feature, your Wi-Fi client device needs to support WPS." A warning message follows: "Warning: Wi-Fi devices may briefly lose connectivity when turning WPS On or Off." Below this, the "Wi-Fi Protected Setup (Band Steering ON)" toggle is turned on, indicated by a green slider. Underneath, the "Push to Pair" section contains the instruction: "If your client device has a WPS button, press it and click the button below to start WPS pairing." A black button labeled "Pair" is positioned at the bottom of this section.

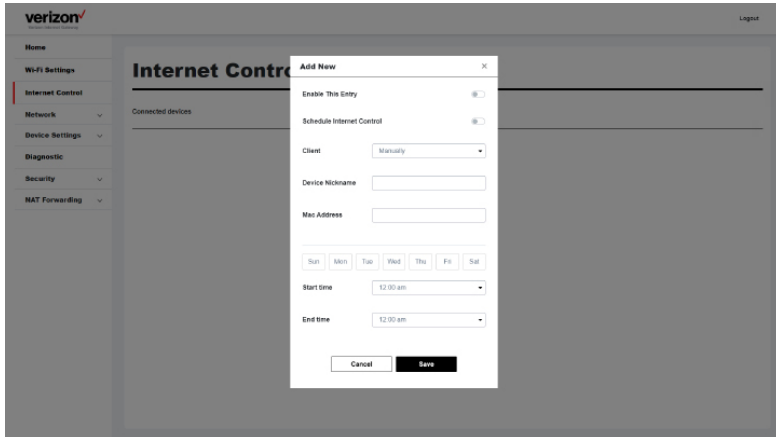
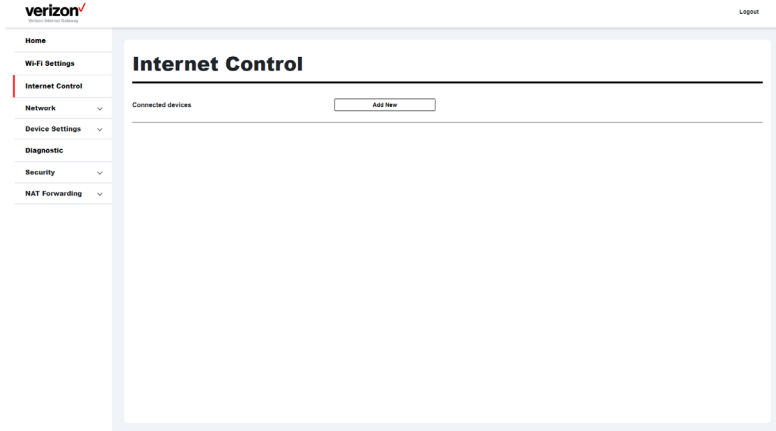
**Warning:** Wi-Fi devices may briefly lose connectivity when turning WPS On/Off.

# 5.3 Internet Control

## > Internet Control

The **Internet Control** feature allows you to restrict selected devices to access Internet on your network at specified times.

To start using this feature, click **Add New** to set the connected device with Internet access controls.



## Internet Control settings

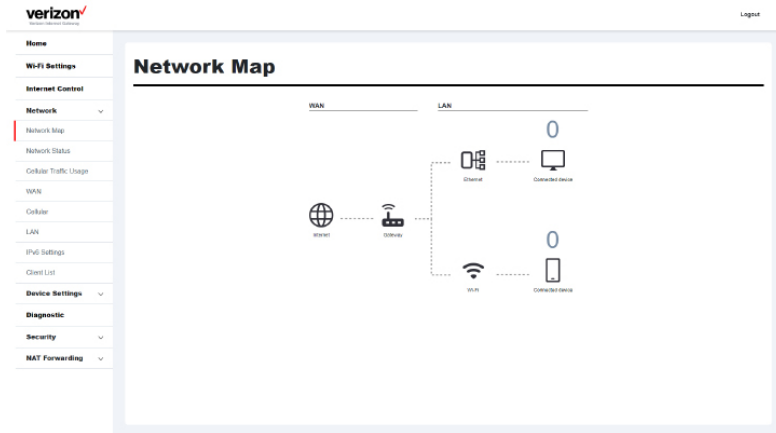
<b>Enable this entry</b>	Use the toggle switch to enable this entry of the connected device to be restricted or controlled.
<b>Schedule Internet Control</b>	Use the toggle switch to enable Schedule Internet Control.
<b>Client (Device Nickname and Mac Address)</b>	Use the drop-down arrow to select a device from a list of connected devices (via Wi-Fi/Ethernet). Once you select a device, the Device Nickname and Mac Address of the selected device will be auto-filled.  You may choose <u>Manually</u> to fill out the Device Nickname and Mac Address manually.
<b>Sun - Sat</b>	Select the day(s) from Sunday to Saturday
<b>Start time</b>	Set the start time for the scheduled Internet Control
<b>End time</b>	Set the end time for the scheduled Internet Control

To save settings, click **Save**.

## 5.4 Network

### > Network

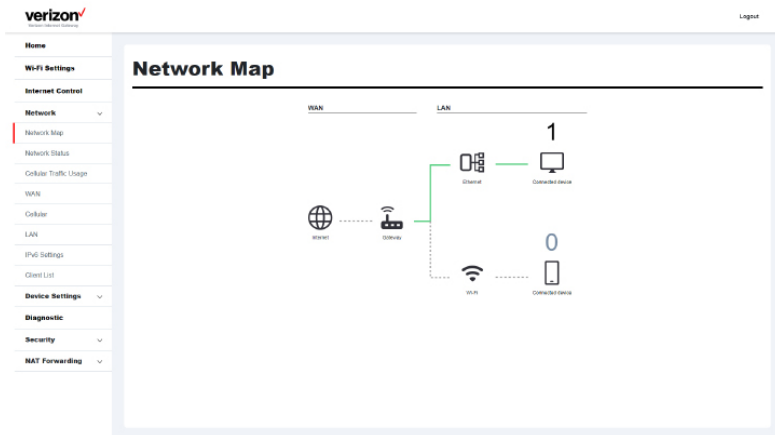
The **Network** menu shows available options to set the networking functions of your router.



## 5.4.1 Network Map

### > Network > Network Map

When you click **Network Map**, you will see a visual overview and status information of the network and devices on your wireless network. You may click on **Connected devices** to view information of your connected client devices, for example, Mac Address, IP address, and IPv6 address for devices connected through Ethernet, as well as devices under Primary/Secondary network of your Wi-Fi. Green lines indicate the connection has been established.



## 5.4.2 Network Status

> **Network** > **Network Status**

**Network Status** displays the status of the network in Internet, Cellular, LAN, Wi-Fi, and System Information.

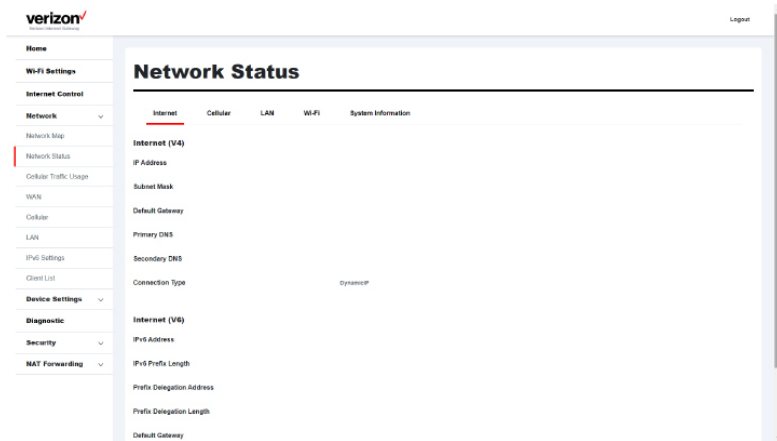
> **Network** > **Network Status** > **Internet**

### Internet v4

Displays IPv4 parameter information about your router's Internet connection. IPv4 is the default Internet protocol on the Internet.

### Internet v6

Displays IPv6 parameter information about your router's Internet connection. IPv6 is the next-generation Internet protocol which will replace IPv4 to deal with the anticipated address exhaustion. To set up IPv6, go to **Network > IPv6 Settings**.



The screenshot shows the Verizon Business Gateway Network Status page. The left sidebar contains navigation options: Home, Wi-Fi Settings, Internet Control (with a sub-menu for Network), Network Map, Network Status, Cellular Traffic Usage, WAN, Cellular, LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Network Status" and has tabs for Internet, Cellular, LAN, Wi-Fi, and System Information. The "Internet" tab is selected, showing "Internet (V4)" settings. The settings listed are: IP Address, Subnet Mask, Default Gateway, Primary DNS, Secondary DNS, Connection Type (DynamicIP), Internet (V6), IPv6 Address, IPv6 Prefix Length, Profile Delegation Address, Profile Delegation Length, and Default Gateway.



## > Network > Network Status > Cellular

Displays cellular network information including Operator name, SIM status, Roaming status and TECH status.

The screenshot shows the Verizon Business Gateway interface. The left sidebar contains navigation options: Home, Wi-Fi Settings, Internet Control, Network (selected), Network Map, Network Status, Cellular Traffic Usage, WAN, Cellular, LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Network Status" and has tabs for Internet, Cellular (selected), LAN, Wi-Fi, and System Information. The Cellular tab displays the following information:

Operator Name	
SIM Status	ABSENT
Roaming Status	
TECH Status	

## > Network > Network Status > LAN

Displays the router's Local Area Network (LAN) information including MAC Address, IP Address, Subnet Mask, and DHCP Server status. To edit LAN settings, go to **Network > LAN**.

The screenshot shows the Verizon Business Gateway interface. The left sidebar contains navigation options: Home, Wi-Fi Settings, Internet Control, Network (selected), Network Map, Network Status, Cellular Traffic Usage, WAN, Cellular, LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Network Status" and has tabs for Internet, Cellular, LAN (selected), Wi-Fi, and System Information. The LAN tab displays the following information:

MAC Address	98:09:04:8D:03:05
IP Address	192.168.0.1
Subnet Mask	255.255.255.0
DHCP Server	On

## > Network > Network Status > Wi-Fi 2.4GHz & 5GHz

Displays your router's Wi-Fi information for both 2.4GHz & 5GHz frequencies, including network name (SSID), radio, mode, channel bandwidth and other parameter information. To edit these Wi-Fi settings, go to **Wi-Fi Settings**.

The screenshot shows the Verizon Network Status page. The left sidebar contains navigation options: Home, Wi-Fi Settings, Internet Control, Network, Network Map, Network Status, Cellular Traffic Usage, WAN, Cellular, LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Network Status" and has a tabbed interface with "Wi-Fi" selected. It displays two sections: "Wi-Fi 2.4G" and "Wi-Fi 5G".

Internet	Cellular	LAN	Wi-Fi	System Information
<b>Wi-Fi 2.4G</b>				
Wi-Fi Name (SSID)		Verizon_2584022		
Wi-Fi Radio		2.4G		
Mode		802.11g/n mixed		
Channel		Auto		
Channel Bandwidth		20/40 MHz		
MAC Address		98:CE:84:0B:8B:8A		
Secondary SSID		Verizon_2584022_Saved		
Secondary Wi-Fi Radio		2.4G		
<b>Wi-Fi 5G</b>				
Wi-Fi Name (SSID)		Verizon_2584022		
Wi-Fi Radio		5G		
Mode		802.11a		

## > Network > Network Status > System Information

Displays system identifiers unique to your hardware.

The screenshot shows the Verizon Network Status page with the "System Information" tab selected. The left sidebar is the same as in the previous screenshot. The main content area displays system identifiers.

Internet	Cellular	LAN	Wi-Fi	System Information
IMEI		186408430007126		
ICCID				
MSI				
MDN				

## 5.4.3 Cellular Traffic Usage

> Network > Cellular Traffic Usage

**Cellular Traffic Usage** displays your network data usage, with upload and download data displayed in MB/KB for monthly and current periods.

Ensure that your router's date and time settings are correct for accurate Monthly usage information. To check date and time settings, go to **Device Settings > Date / Time**.

The screenshot shows the Verizon Business Internet Gateway interface. On the left is a navigation menu with the Verizon logo at the top. The menu items are: Home, Wi-Fi Settings, Internet Control, Network (expanded), Network Map, Network Status, Cellular Traffic Usage (highlighted with a red bar), WAN, Cellular, LAN, IPv6 Settings, Cloud List, Device Settings (expanded), Diagnostic, Security (expanded), and NAT Forwarding (expanded). The main content area is titled "Cellular Traffic Usage" and is divided into two sections: "Monthly Usage" and "Current Usage".

Monthly Usage	
Upload	842.16 KB
Download	0.00 KB

Current Usage	
Query Range	2022 May 25 12:00 am - 10:23 am
Upload	842.16 KB
Download	0.00 KB

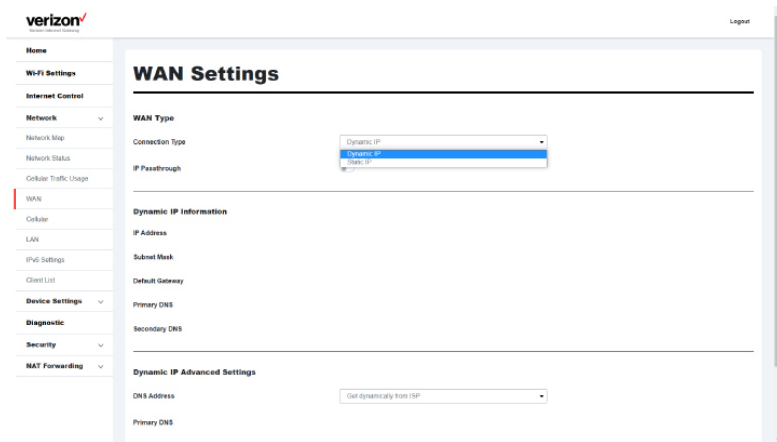
## 5.4.4 WAN Settings

> Network > WAN

**WAN Settings** allows you to assign Dynamic IP or Static IP for the connected WAN device. You may use the toggle switch to enable or disable IP Passthrough function. If IP Passthrough is enabled, Wi-Fi, IPv6, firewall and ALG will be off (the Wi-Fi, the IPv6, the firewall and the ALG setting pages will show IP Passthrough is on. To enable these functions again, IP Passthrough must be disabled).

Once the Dynamic IP is set, the page will display Dynamic IP information.

In advanced setting, you may choose to get DNS address dynamically from ISP (Internet Service Providers or manually input the Primary/Secondary DNS addresses if you choose Use the following Address.



The screenshot displays the Verizon Business Internet Gateway WAN Settings interface. On the left is a navigation sidebar with the Verizon logo at the top and a 'Login' link in the top right. The sidebar lists various settings categories: Home, Wi-Fi Settings, Internet Control, Network (with a dropdown arrow), WAN (highlighted with a red bar), LAN, IPv6 Settings, Client List, Device Settings (with a dropdown arrow), Diagnostic, Security (with a dropdown arrow), and NAT Forwarding (with a dropdown arrow). The main content area is titled 'WAN Settings' and is divided into several sections: 'WAN Type' with a 'Connection Type' dropdown menu currently showing 'Dynamic IP' and a list of options including 'Dynamic IP', 'Dynamic IP', and 'Static IP'; 'Dynamic IP Information' with fields for 'IP Address', 'Subnet Mask', and 'Default Gateway'; and 'Dynamic IP Advanced Settings' with a 'DNS Address' dropdown menu set to 'Get dynamically from ISP' and a 'Primary DNS' field.

To save settings, click **Save**.

## 5.4.5 Cellular Settings

> Network > Cellular

**Cellular Settings** displays your cellular status including Internet status, SIM status, cellular type (4G/5G) and other parameters.

You may click Refresh to refresh the displayed status, or click Connect/Disconnect if necessary.

In APN Settings, you may input or set your APN information.

The screenshot shows the Verizon Business Internet Gateway interface. On the left is a navigation menu with categories: Home, Wi-Fi Settings, Internet Control, Network (expanded), WAN, Cellular (selected), LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "Cellular Settings" and is divided into two sections: "Cellular Status" and "APN Settings".

**Cellular Status**

Internet Status	Disconnect	<input type="button" value="Connect"/>	<input type="button" value="Refresh"/>
SIM Status	ABSENT		
Cellular Type	4G	5G	
RSCP	--	--	
SINR	--	--	
RSRQ	--	--	
RSSI	--	--	

**APN Settings**

APN	<input type="text" value="vzw"/>
-----	----------------------------------

At the bottom of the APN Settings section are two buttons: "Cancel" and "Save".

To save settings, click **Save**.

## 5.4.6 LAN Settings

> Network > LAN

**LAN Settings** page allows you to configure your router on your Local Area Network (LAN). You may assign an IP address and corresponding subnet mask for your router, and configure your router as a DHCP server to assign IP addresses and/or DNS to other devices on your LAN.

### Basic

- **IP Address:** enter an IP address for your router.
- **Subnet mask:** use the drop-down menu to select an available subnet mask.

### Advanced

- **DHCP:** use the toggle switch to enable/disable your router as a DHCP server.
- **IP Address Pool:** provides a sequential range of IP addresses within a certain network for you to assign to devices on your LAN network.
- **Address Lease Time (hours):** enter the address lease time
- **Primary/Secondary DNS (optional):** enter the primary/secondary DNS. This is optional.

The screenshot shows the Verizon Business Internet Gateway interface. On the left is a navigation menu with options like Home, Wi-Fi Settings, Internet Control, Network, Network Map, Network Status, Cellular Traffic Usage, WAN, Cellular, LAN, IPv6 Settings, Client List, Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled 'LAN Settings' and is split into two sections: 'Basic' and 'Advanced'. In the 'Basic' section, the 'Mac Address' is 90:CE:54:1B:88:56. The 'IP Address' is set to 192.168.0.1, and the 'Subnet Mask' is 255.255.255.0. The 'Advanced' section has the 'DHCP' toggle switch turned on. The 'IP Address Pool' is set to 192.168.0.2 to .254. The 'Address Lease Time (Hours)' is 12. There are empty fields for 'Primary DNS (Optional)' and 'Secondary DNS (Optional)'. At the bottom of the form are 'Cancel' and 'Save' buttons.

To save settings, click **Save**.

## 5.4.7 IPv6 Settings

> Network > IPv6 Settings

**IPv6 Settings** allows you to enable/disable IPv6 protocol and set the related features.

- **IPv6:** use the toggle switch to enable/disable IPv6 protocol.
- **WAN:** use the drop-down menu to select your preferred WAN connection (for instance, Ethernet or wireless mobile network)
- **Profile name:** use the drop-down menu to select your profile name.

### WAN DHCP Settings

- **DNS Address:** use the drop-down menu to choose Get dynamically from ISP or Use the following Address. If you choose Get dynamically from ISP, the Primary/Secondary DNS will be auto-filled. If you choose Use the following Address, you will have to manually input the addresses.
- **Primary/Secondary DNS:** these items will be auto-filled if you choose Get dynamically from ISP in the last parameter. If you choose Use the following Address, you will have to fill out these two items manually.

### LAN Settings:

- **IPv6 Address:** displays IPv6 address.
- **IPv6 Prefix Length:** displays IPv6 prefix length.
- **IPv6 Address type:** use the drop-down menu to select from SLAAC + RDNSS, SLAAC + DHCPv6, or DHCPv6.
- **Life time (Minutes):** input the life time.

The screenshot displays the Verizon IPv6 Settings interface. On the left is a navigation sidebar with categories: Home, Wi-Fi Settings, Internet Control, Network, WAN, LAN, IPv6 Settings (highlighted), Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled "IPv6 Settings" and is divided into several sections:

- IPv6:** A toggle switch is currently turned on.
- WAN:** A dropdown menu is set to "SD".
- Profile Name:** A dropdown menu is set to "Dynamic IP".
- WAN DHCP Settings:**
  - DNS Address:** A dropdown menu is set to "Get dynamically from ISP".
  - Primary DNS:** An empty input field.
  - Secondary DNS:** An empty input field.
- LAN Settings:**
  - IPv6 Address:** An empty input field.
  - IPv6 Prefix Length:** An empty input field.
  - IPv6 Address Type:** A dropdown menu is set to "SLAAC+RDNSS".
  - Life Time (Minutes):** An empty input field.

To save settings, click **Save**.

## 5.4.8 Client List

> Network > Client List

Client List displays general device information under your LAN and Wi-Fi networks.

The screenshot shows the Verizon Business Internet Gateway interface. The Verizon logo is in the top left, and a 'Logout' link is in the top right. A left-hand navigation menu includes: Home, Wi-Fi Settings, Internet Control, Network (expanded), Network Map, Network Status, Cellular Traffic Usage, WSN, Cellular, LAN, IPv6 Settings, Client List (highlighted with a red bar), Device Settings, Diagnostic, Security, and NAT Forwarding. The main content area is titled 'Client List' and features a table with two columns: 'LAN (1)' and 'Wi-Fi (0)'. Under the 'LAN (1)' column, a single device is listed: 'Jack3NHeu'. Below the device name, its details are shown: Mac Address: 7c:01:0a:90:77:71, IP Address: 192.168.0.104, and IPv6 Address: fe80::5a66:799f:7960.

LAN (1)	Wi-Fi (0)
<b>Jack3NHeu</b> Mac Address: 7c:01:0a:90:77:71 IP Address: 192.168.0.104 IPv6 Address: fe80::5a66:799f:7960	



# 5.5 Device Settings

## > Device Settings

From **Device Settings** menu, you can configure various administrative functions of your router, including the Web UI login password, router date & time settings, backup, and router firmware updates.

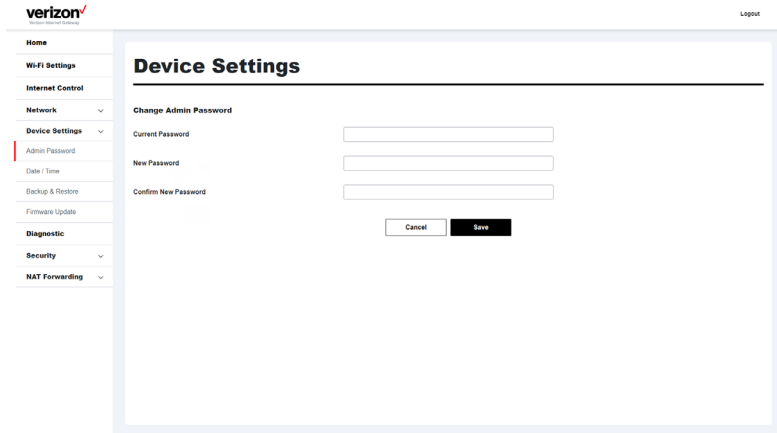
### 5.5.1 Change Admin Password

#### > Device Settings > Admin Password

From **Admin Password** page, you can change the login password for the router's Web UI. It is essential to change the password regularly for the security of your router. Use complex, strong password with a mixed combination of numbers, letters and symbols.

To change admin password for your router,

1. Enter the current password.
2. Enter your new password in the New Password field and again in Confirm New Password to confirm.
3. To save new password, click **Save**.

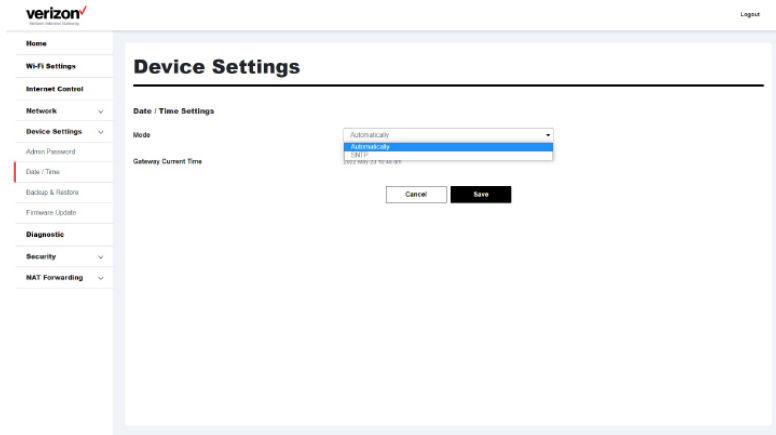


## 5.5.2 Date / Time

> **Device Settings** > **Date / Time**

The Date and Time for your router is configured automatically over the cellular network by default and is displayed in Gateway Current Time.

You may select SNTP mode to enter NTP server and time zone manually.



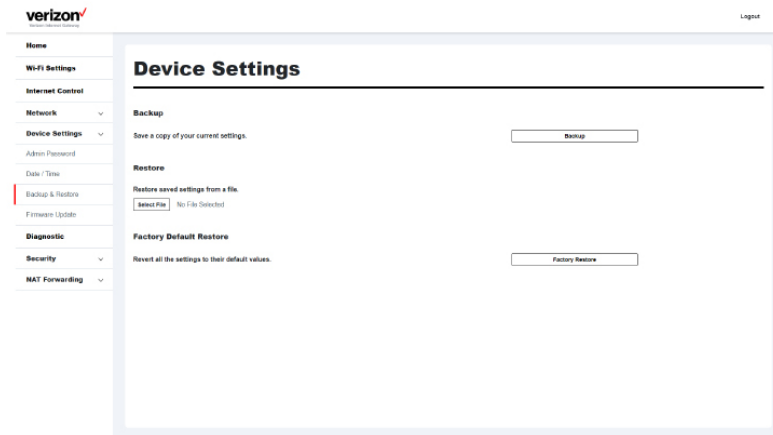
To save settings, click **Save**.

## 5.5.3 Backup and Restore

### > Device Settings > Backup & Restore

From the **Backup & Restore** page, you can save and backup your router's current settings as a file in your local device storage (e.g. a computer storage). You can then restore your router to the previously saved settings by loading this file. If necessary, you may also reset your router back to factory default settings.

If the router is not responding or experiences some issues, it is recommended that you first reboot the device. If the issue(s) remains, you may reset the device back to factory default settings. To perform a cold reset to factory default settings, use a pin to insert the Reset Hole on the front of the device for few seconds.

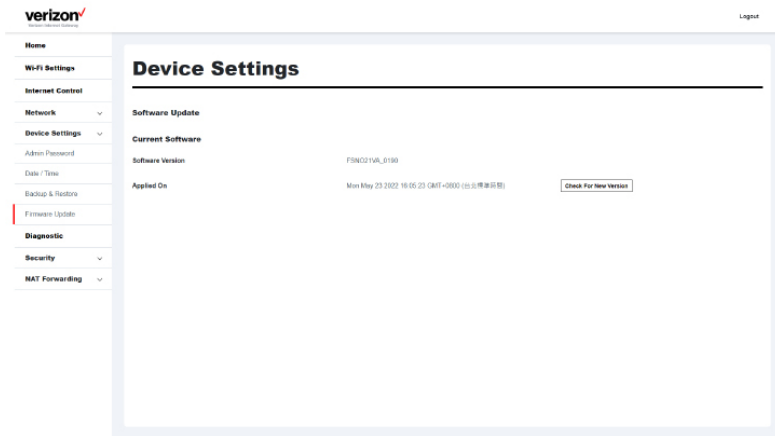


<b>Backup</b>	Save a copy of your current settings. To save current settings as a backup file, click or tap <b>Backup</b> .
<b>Restore</b>	Restore saved settings from a file. To restore saved settings, click or tap <b>Select File</b> to locate a file on your device storage (e.g. a computer storage).
<b>Factory Default Restore</b>	Reset the router to its factory default values. To perform a factory reset, click or tap <b>Factory Restore</b> .

## 5.5.4 Firmware Update

> **Device Settings** > **Firmware Update**

The **Firmware Update** page displays your router 's software version information. Firmware is the software that your router runs on. You can click or tap **Check for New Version** to manually check if new firmware version is available.



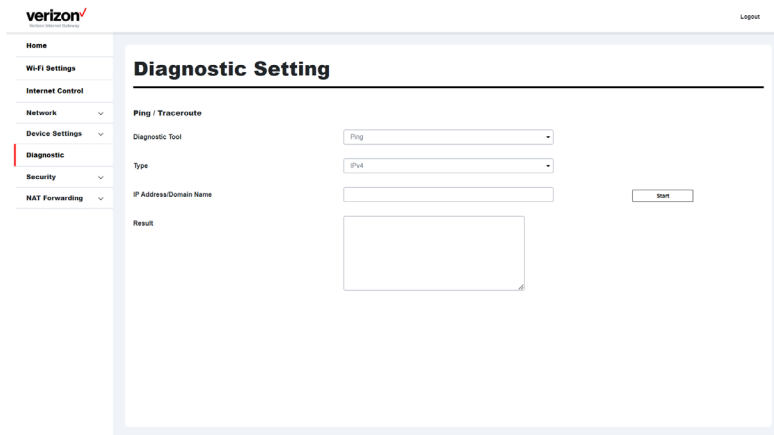
The screenshot shows the Verizon Business Gateway web interface. The top left features the Verizon logo and a navigation menu with options: Home, Wi-Fi Settings, Internet Control, Network, Device Settings (selected), Admin Password, Date / Time, Backup & Restore, Firmware Update, Diagnostic, Security, and NAT Forwarding. The top right has a 'Logout' link. The main content area is titled 'Device Settings' and contains the following information:

Software Update	
<b>Current Software</b>	
Software Version	F3M021VA_0190
Applied On	Mon May 23 2022 16:05:23 GMT+0800 (台北標準時間) <a href="#">Check For New Version</a>

# 5.6 Diagnostic Setting

## > Diagnostic

From **Diagnostic** menu, you can run **Ping / Traceroute** diagnostic tests with the router. Enter the IP address to use for the test and click **Start**. The results will be displayed in the **Result** box.



<b>Ping / Traceroute</b>	Use the drop-down menu to select Ping or Traceroute as the diagnostic tool.
<b>Type</b>	Use the drop-down menu to select IPv4 or IPv6 as the protocol type.
<b>IP Address / Domain Name</b>	Enter the IP address or domain name to run the diagnostic.

# 5.7 Security

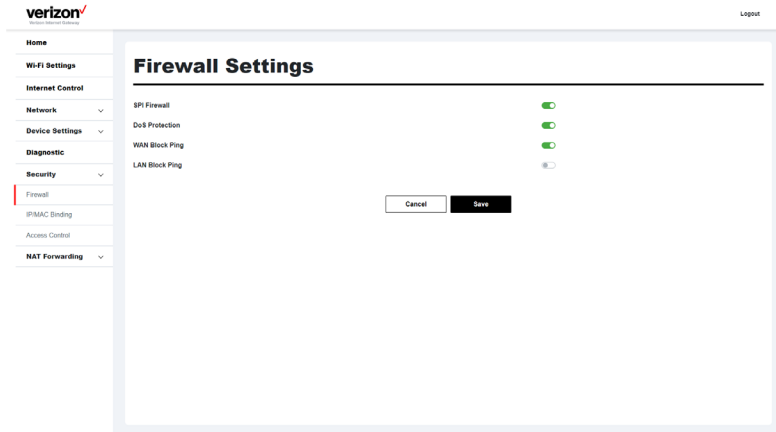
## > Security

Use the **Security** menu to configure various security functions if necessary, including Firewall, IP/MAC Binding and Access Control.

## 5.7.1 Firewall Settings

### > Security > Firewall

The router features a built-in firewall with four modules to give your network comprehensive protections from unauthorized intrusions from malicious attacks on the Internet. Use the toggle switches to enable or disable the four firewall modules.



<b>SPI Firewall</b>	SPI firewall protection means only packets matching a known active connection will be allowed by the firewall, and others will be rejected. An SPI firewall goes beyond stateless filtering and checks an entire packet's content rather than only packet headers. This is a security feature to help distinguish between legitimate packets of information and potentially harmful packets, and provides greater security for your network.
<b>DoS Protection</b>	Denial-of-Service (DoS) is a common form of malicious attack against a network. The router's firewall can protect against such attacks by filtering abnormal packets that could flood and disable a network with large amounts of traffic.
<b>WAN Block Ping</b>	When active, the router will not answer ping requests from the Internet . This can increase security as pinging is a common method used by hackers to test networks.
<b>LAN Block Ping</b>	When active, the router will not answer ping requests from the local network. This can increase security as pinging is a common method used by hackers to test networks.

To save settings, click **Save**.

## 5.7.2 IP/MAC Binding Settings

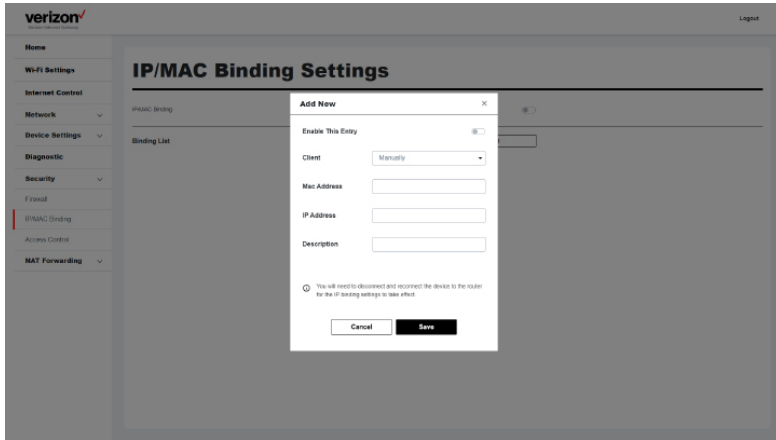
> Security > IP/MAC Binding

IP/MAC Binding allows you to reserve a static IP address for a device on the network, rather than being assigned a new dynamic IP address by the router 's DHCP Server every time the device connects to the router. Static IP addresses can be used to host various services on the local network. Every device is identified by a unique MAC address, and the IP address can be bound to the MAC address.

The screenshot displays the Verizon Business Internet Gateway configuration interface. On the left is a navigation sidebar with the Verizon logo at the top and a 'Logout' link in the top right. The sidebar menu includes: Home, Wi-Fi Settings, Internet Control, Network (with a dropdown arrow), Device Settings (with a dropdown arrow), Diagnostic, Security (with a dropdown arrow), Firewall, IP/MAC Binding (highlighted with a red bar), Access Control, and NAT Forwarding (with a dropdown arrow). The main content area is titled 'IP/MAC Binding Settings'. At the top of this area is the Verizon logo and the text 'IP/MAC Binding' followed by a toggle switch. Below this is a section labeled 'Binding List' containing two buttons: 'Add new' and 'Delete All'.

To set IP/ MAC binding,

1. Use the toggle switch to enable IP/MAC Binding.
2. Click or tap **Add New** to setup a new client for IP/MAC Binding.
3. Select a device from the Client menu or enter the MAC address manually.
4. Specify the IP Address the client will use, and enter a Description of the device for easy reference.



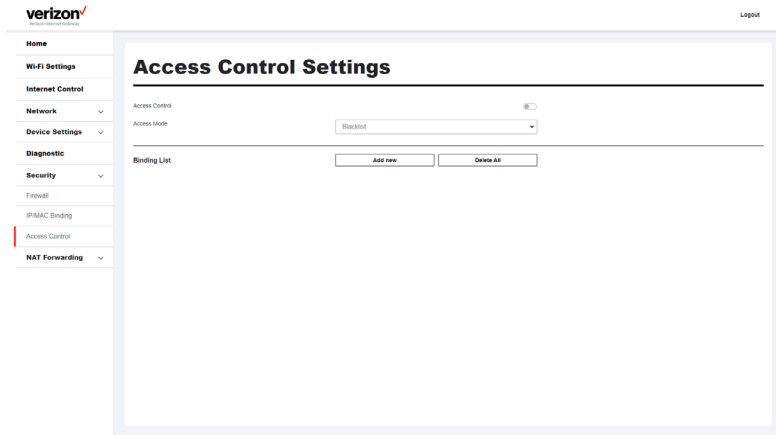
To save settings, click **Save**.



## 5.7.3 Access Control Settings

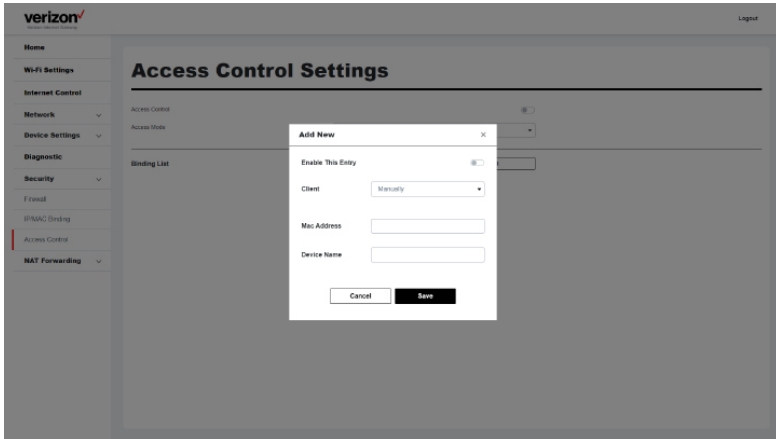
### > Security > Access Control

Access Control is a security feature that can help prevent unauthorized users from connecting to your router. You can set the access mode of network devices as permitted (Whitelist) or denied (Blacklist) to connect to the router. Each device is identified by its unique MAC address or IP address.



To set Access Control,

1. Use the toggle switch to enable Access Control
2. Select Blacklist (not permitted) or Whitelist (permitted), and click **Add New**.
3. Use the toggle switch to turn on Enable This Entry
4. Select a device from the Client menu or enter the MAC address manually.
5. Enter the Name of the device for easy reference.



To save settings, click **Save**.

# 5.8 NAT Forwarding

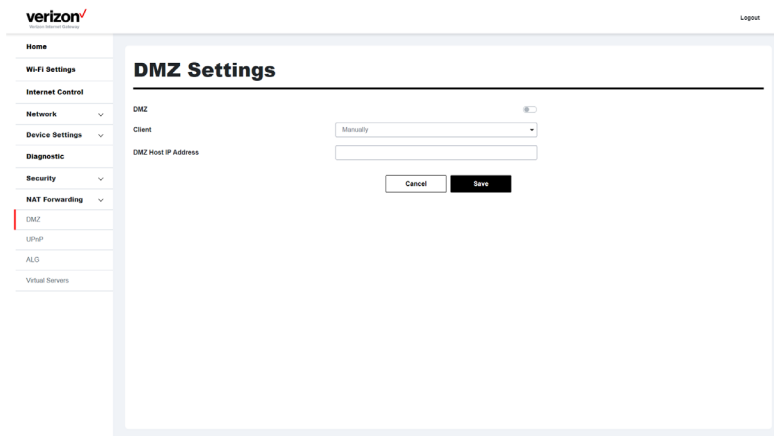
## > NAT Forwarding

The **Network Address Translation (NAT) Forwarding** menu provides functional configurations to improve network performance and security of your network.

### 5.8.1 DMZ Settings

#### > NAT Forwarding > DMZ

A Demilitarized Zone (DMZ) is an isolated area in your local network where a computer runs outside the firewall and receives/intercepts all incoming Internet traffic. This can provide an extra layer of security to the rest of the network, or can be useful if a network client PC cannot run an application properly from behind an NAT firewall . However since it opens the client up to unrestricted two-way access this computer is vulnerable. DMZ should be configured only by expert network users aware of the security risks.



To set DMZ,

1. Use the toggle switch to set DMZ to active.
2. Enter the IP Address of the computer to provide the DMZ service. Make sure this computer is using a Static IP Address.
3. To save settings, click **Save**.

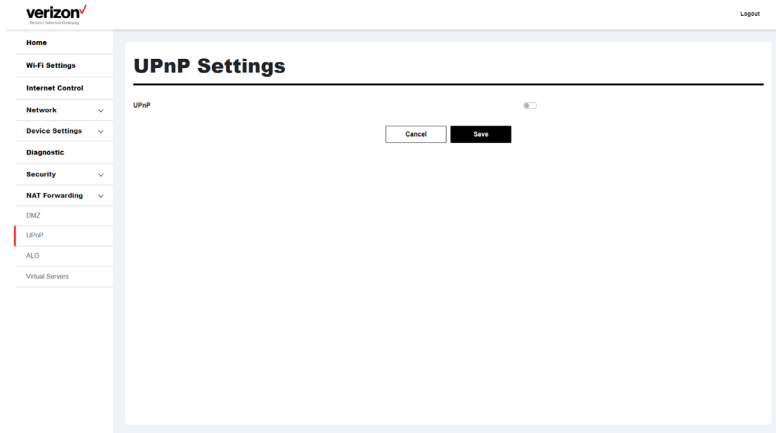
## 5.8.2 UPnP Settings

### > NAT Forwarding > UPnP

Universal plug-and-play (UPnP ) is a set of networking protocols which enables devices on the same network to automatically connect and communicate with each other, such as computers, printers, mobile devices, and etc.

Some devices may require UPnP to be enabled to function properly. Use the toggle switch to enable or disable UPnP, according to requirements by your device(s).

If there are security concerns, use the toggle switch to disable UPnP.



To save settings, click **Save**.

## 5.8.3 ALG Settings

### > NAT Forwarding > ALG

Application Level Gateway (ALG) settings are NAT functions to solve issues for services that are disrupted by the firewall. Each ALG module is a security component that reinforces the firewall. Services such as VPNs or Virtual Servers may require certain ALG modules enabled.

By default all ALG modules are active. Use the toggle switches to disable any ALG module if necessary. ALG Settings are recommended for expert users only.

SIP ALG may disrupt Wi-Fi calling for cellphones connected to the network.

The screenshot displays the Verizon Business Internet Gateway interface. On the left is a navigation menu with categories: Home, Wi-Fi Settings, Internet Control, Network, Device Settings, Diagnostic, Security, NAT Forwarding, DMZ, UPnP, ALG (highlighted), and Virtual Servers. The main content area is titled 'ALG Settings' and contains a list of seven ALG modules, each with a green toggle switch indicating it is turned on:

ALG Module	Status
PP/TP passthrough	On
L2TP passthrough	On
IPSec Passthrough	On
FTP ALG	On
TFTP ALG	On
RTSP ALG	On
SIP ALG	On

At the bottom of the settings area are two buttons: 'Cancel' and 'Save'.

## Manage ALG Settings

<b>PPTP Passthrough</b>	Point-to-Point Tunneling Protocol (PPTP) Passthrough allows PPTP to pass through NAT router, which enables VPN clients connected to the router to make PPTP connections.
<b>L2TP Passthrough</b>	Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol for point-to-point sessions via the Internet on layer 2. It is another passthrough protocol to transmit packets in VPNs.
<b>IPSec Passthrough</b>	Internet Protocol Security (IPsec) is a protocol suite for data packet encryptions and secure network connections. IPSec Passthrough allows IPSec tunnels to pass through the router.
<b>FTP ALG</b>	File Transfer Protocol is a widely and commonly used method of exchanging files over IP networks. The FTP ALG scans PORT and PASV commands, as well as 227 responses. It performs NAT on the IP and port, or both in the data transfer between client and server.
<b>TFTP ALG</b>	Trivial File Transfer Protocol (TFTP) is a simple protocol used for processing TFTP packets and sends requests to UDP destination port 69. Certain firewall and NAT services require TFTP ALG configurations.
<b>RTSP ALG</b>	The Real Time Streaming Protocol (RTSP) is a network control protocol that controls the delivery of real-time media data. This ALG is mostly used in servers that control streaming media.
<b>SIP ALG</b>	The Session Initiation Protocol (SIP) is a communications protocol for managing VoIP. The SIP ALG monitors VoIP traffic and modifies the data packets when needed. However, some interruptions may happen to VoIP due to firewall.

## 5.8.4 Virtual Servers Settings

### > NAT Forwarding > Virtual Servers

**Virtual Servers** allows you to set up a server in the local network to host online services, such as FTP, VoIP, printer, HTTP, or web servers. Meanwhile, the virtual server can keep the local network invisible to the public Internet. Internet traffic is directed to a specifically assigned port(s) of a router (or routers) on your local network. Different services can be redirected to certain ports. For instance, Port 80 is set for FTP service. You may establish various sets of port redirections to provide multiple Internet services on different local computers through a single Internet IP address.

To set up virtual servers,

1. Click **Add New** in the Binding List.
2. Use the toggle switch to turn on Enable This Entry.
3. Enter the parameters to set up a virtual server.

#### Parameters

<b>Service Type</b>	Specify the service type, for example, HTTP, FTP, etc.
<b>External Port</b>	Specify the external/public port to access the computer on your local network.
<b>Client</b>	Select a device from the menu or manually assign Internal (Private) IP & Port.
<b>Internal IP</b>	Enter the IP address of the computer on your local network. If you select a device from the drop-down menu, Internal IP will be auto-filled.
<b>Internal Port</b>	Specify the internal/private port you wish to use on the computer in your local network.
<b>Protocol</b>	Select the connection protocol: TCP, UDP or All.

- Home
- Wi-Fi Settings
- Internet Control
- Network
- Device Settings
- Diagnostic
- Security
- NAT Forwarding
- DMZ
- UPnP
- ALG
- Virtual Servers

## Virtual Servers Settings

Binding List

Add new

Delete All

- Home
- Wi-Fi Settings
- Internet Control
- Network
- Device Settings
- Diagnostic
- Security
- NAT Forwarding
- DMZ
- UPnP
- ALG
- Virtual Servers

## Virtual Servers Settings

Binding List

**Add New** [X]

Enable This Entry

Service Type

External Port  -

Client

Internal IP

Internal Port  -

Protocol

# 6. Technical Specifications

<b>Frequency bands</b>	5G NR: n2, n5, n48, n66, n77 4G LTE: B2, B5, B13, B48, B66
<b>Memory</b>	RAM: 1GB ROM: 8GB
<b>Wi-Fi</b>	Wi-Fi 6 (802.11 a/b/g/n/ac/ax) Support simultaneous 2.4Hz (2x2 MIMO) and 5GHz (4x4 MIMO), 4x SSID w/ band-steering (Single SSID on both 2.4/5GHz) WiFi coverage supports 64 simultaneous clients Downlink CA of LTE B5 with 4X4 MIMO and LTE B13 with 4X4 MIMO
<b>LED</b>	Front-facing dimmable tri-color LED x 1
<b>WPS</b>	WPS button x 1
<b>Max. connected devices</b>	Up to 128 devices (64 devices for 2.4 GHz and 5 GHz each)
<b>LAN</b>	RJ-45 Gigabit LAN ports x 4
<b>WAN</b>	WAN port x 1
<b>Reset</b>	Reset pin hole x 1
<b>Power</b>	DC power jack x 1
<b>SIM</b>	SIM card slot door x 1
<b>Dimensions</b>	164 x 160 x 80 mm
<b>Weight</b>	970g
<b>Accessories</b>	12V/3A AC Adapter Ethernet cable Optional Wall/Ceiling Mounting Brackets
<b>OS</b>	Linux
<b>Built-in features</b>	WebUI, TR-69, REST API, OMA-DM, IP Pass-through

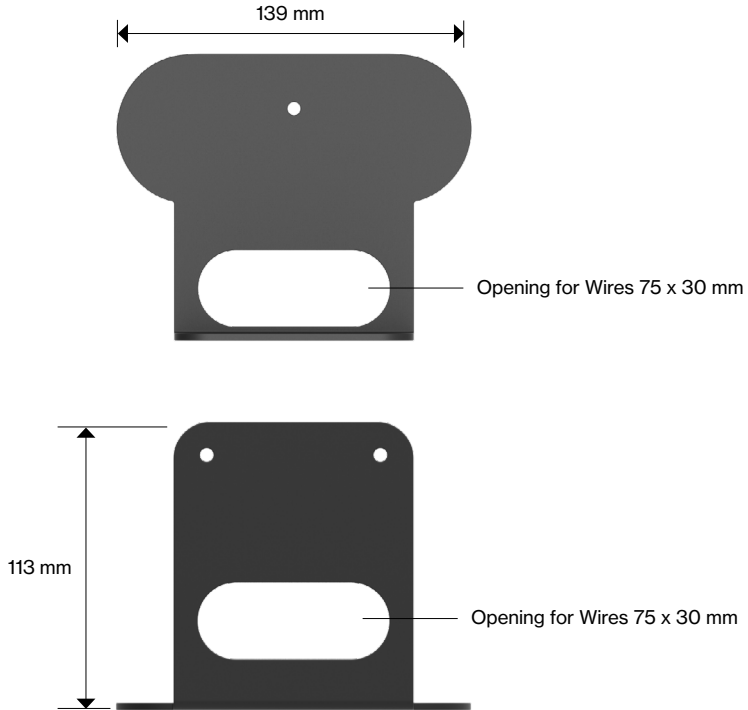


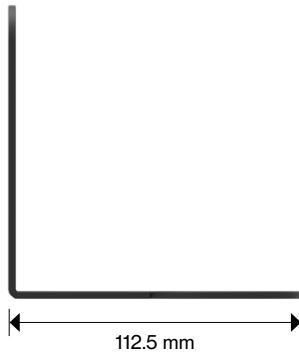
# 7. Troubleshooting

If you are experiencing some issues in using the router, try here first for some quick fixes to common problems.

<b>Dropped Wi-Fi connection</b>	Wi-Fi connections can occasionally drop for any number of reasons, such as interference or system updates. Try to ensure the space between your router and Wi-Fi devices is as clear as possible and make sure you're not moving too far away from your router. Check that your router has a good cellular connection and that your Wi-Fi device isn't trying to connect to any other saved Wi-Fi networks.
<b>Can't connect to Wi-Fi</b>	If your router's Wi-Fi doesn't appear when scanning available networks on your device, or if you can't make a connection, try switching both your router and Wi-Fi device off and back on again, and move closer to your router. If your router has a good cellular connection and you still can't establish a Wi-Fi connection, try a factory reset. To perform a factory reset and return the Verizon Internet Gateway to default settings, use a pin to insert the Reset Hole for a few seconds.
<b>Can't login to the Web UI</b>	If you can't access the Web UI, it might be an issue with your device or computer's proxy or IP address settings. Make sure that proxy settings are disabled and that your device or computer can be allocated an IP address on the network by the router's DHCP server. You'll need to check the support for your device or computer's operating system e.g. Windows or Mac OS, for detailed instructions how to do this.
<b>Where can I get more help?</b>	If you have any problem setting up your router, please visit <a href="https://setup.verizon.com/businessinternetgateway">setup.verizon.com/businessinternetgateway</a> for help. For further assistance, call the Verizon Technical Support Team at 1.800.922.0204. Please have your order confirmation email ready when you make the call.

## 8. Mounting Your Gateway onto the Wall (Optional)





# FCC Declaration of Conformance

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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

**Operations in the 5.850-5.895GHz band are restricted to indoor usage only.**

## FCC RF Radiation Exposure Statement (SAR)

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

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 35 centimeters between the radiator and your body.

## Safety Warnings

### Adapter

- Do not use any other power adaptor except the one that accompanies this unit or a power adaptor identified in the list below.
- Use of another adapter could result in damage to the unit.
- The following power adaptor is qualified for use with this Verizon 5G Internet Gateway: (specified the adapter specifications, brand, make, type and other restrictions)

### Caution

Ensure to connect the power cord of power adapter to a socket-outlet with grounding connection.

# Safety and Compliance

## Read before Use

We recommend you read the following sections thoroughly before use. Verizon is not liable for malfunctions or damages resulted from misuse of the handset.

## Safety Precaution

Pay full attention to the following safety precautions.

- Use the chargers, cables or accessories approved by the device manufacturer.
- Do NOT disassemble or modify the device. Doing so voids the warranty.
- Prevent wetness from penetrating internal parts. Using the device in wet or damp environment may result in malfunctions.
- Do NOT use this device near source of heat or fire, such as oven, microwave, stove, or heater.
- Keep your device away from cooking appliances.
- Do NOT place the device in places with heated atmosphere (dryer, sauna, hot water).
- Do NOT use the device and disconnect all cables at places with fire or explosion risks.
- Avoid strong physical impact (heavy objects or excessive force).
- Keep your device away from liquid or conductive materials.
- Do NOT charge the device when either the device, the adapter, or the cable is wet. It may cause short-circuit.
- Power off the device when near medical equipment or high-precision control systems to avoid potential interference.
- Charge with specified voltage only.
- Do NOT charge device in a wet environment (bathtub, sauna).
- Place the device on a flat, stable surface for optimal use.
- Keep the device and adapter away from children and pets.
- The device must be disposed of in accordance with the locally applicable environmental regulations.
- Keep the device away from magnetic items such as magnetic strip cards or items that generate strong electronic or magnetic fields, such as a microwave.
- Do NOT store the device in a wet or overheated environment.
- Do NOT use the device when it is overheated.
- Disconnect all the the cable connections when the device is not in use.
- Place the device in places with good signal strength.
- Make sure the adapter you use with the device meets the approved standards and specifications.

## Disposal and Recycling

Do not dispose of the phone in a household garbage bin.

Products with this label must be taken to specific collection points at the end of their life.



You can learn more about how to recycle your mobile device by visiting the CTIA website at

[www.ctia.org/news/how-to-recycle-your-mobile-device](http://www.ctia.org/news/how-to-recycle-your-mobile-device)

# Maintenance & Care

- Avoid extreme temperature or direct sunlight
- Clean handset with soft, dry cloth. Do NOT use alcohol solvent (color may fade)
- Warranty does not cover malfunctions caused by misuse.
- Stop all the applications and shut down the device before cleaning it.
- Keep the device and its accessories dry at all times.
- If anomaly occurs, contact Verizon service or authorized retail immediately.
- When storing the device, do NOT store it in a container with dampness or under extended heat.
- Avoid dropping the device or strong physical impact at all times.

# Warranty

Verizon warrants that this product is free from any defect in workmanship and material, under normal use and condition, for a period of one (1) year from the original date of purchase shown on your original invoice or receipt. If any such defects are found in this product within the applicable warranty period, Verizon shall, at its option during the applicable warranty period, carry out repair or replacement for the defected product or part. Such repair or replacement is subject to verification of the defect or malfunction and proof of purchase shall be confirmed by showing the model number on receipt of invoice with the original date of purchase.

The warranty does not apply if any of the following circumstances occurs:

- The warranty period has expired.
- Proof of purchase is absent.
- Normal wear or tear of the product due to natural ambient conditions or force majeure, such as humidity, oxidization, corrosion, penetration of liquids, and extreme temperatures.
- Damage caused by connection with accessories, equipment, or peripherals that are not specified by the manufacturer or not compatible with this product.
- Damage caused by disassembly, modification or repair performed by unauthorized technician or individual.
- Damage caused by non-compliance with the recommended device use instructed in the User's Manual.
- The IMEI label on this product has been modified, altered or removed.

The purchaser or user will be responsible for any cost regarding replacement of parts, reinstallation, transportation, and any other cost that may be incurred for the repair or replacement if any of the circumstances mentioned above is determined.

This warranty statement constitutes the entirely expressed warranty granted by Verizon. No other party, whether dealer, service center or agent, or employee(s) of such, is authorized to extend or transfer this warranty on behalf of Verizon. By law, Verizon disclaims any and all liability for direct or indirect damages or losses, or for any incidental or consequential damages of any nature whatsoever, including but not limiting to loss of commercial profit or data resulting from a defect in this product.

To the extent the law permits, the repair or replacement of this product does not, under any circumstances, extend the original warranty period. However, the repaired or the replaced parts are warranted in the same manner.

# Legal Notices

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## Limitations of Libability

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# Changes

The functions of the product and associated peripherals or accessories are described in this document are based on the current hardware, software and/or local network conditions at the time of writing, and thus may vary due to conditions set by local network service providers or carriers. Therefore, all information described herein is subject to change without prior notice.