



# 5G Internet Gateway User Guide





## **Federal Communication Commission Interference Statement**

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.

FCC Caution: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.



## **RF Exposure Statement**

To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20cm from all persons (indoor), at least 48cm from all persons (outdoor), and must not be co-located or operating in conjunction with any other antenna or transmitter.

## **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:

This unit must be powered by Delta Electronics, model ADP-120VH DD or equivalent UL listed power source rated @ output 20Vdc, Maximum 6A.

## **Caution**

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



## Chapter 1

### Introduction

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Verizon's 5G Internet Gateway provides Verizon customers with an improved solution for 5G home service. The innovative design of the 5G Internet Gateway allows customers to connect their favorite devices to Verizon's 5G Network.

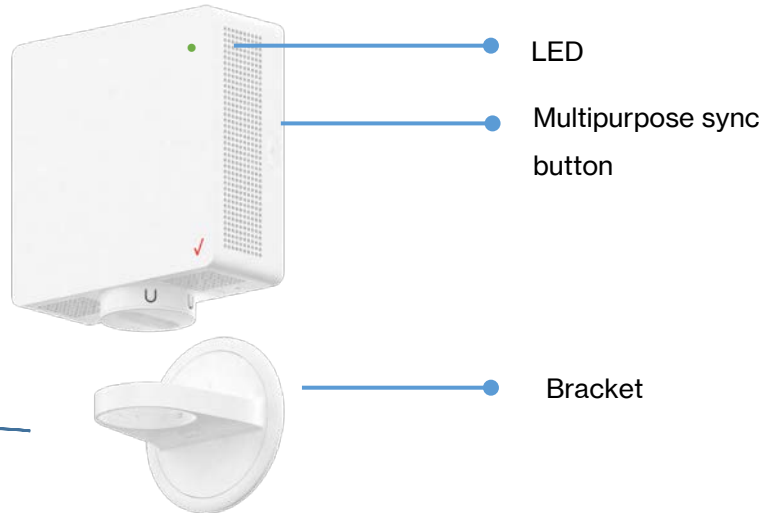
#### **1.1. Unboxing Information**

Inside the product package for the 5G Internet Gateway, you should find the following items:

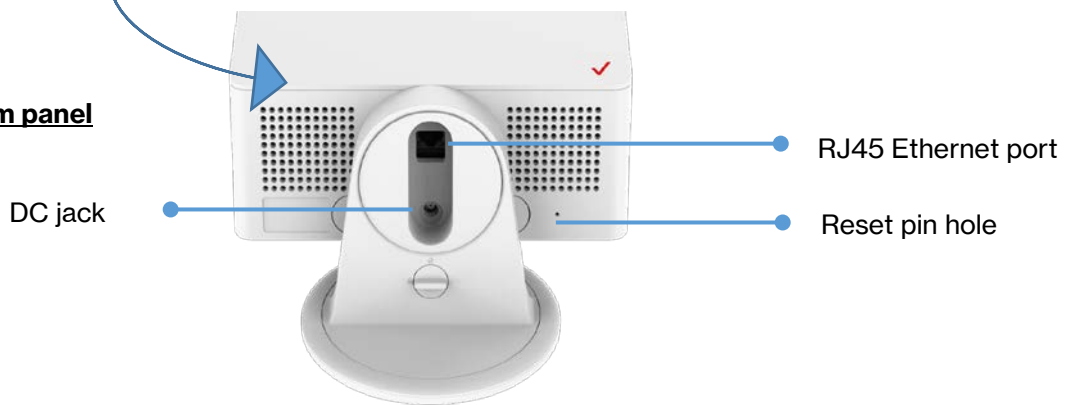
- 5G Internet Gateway × 1
- Bracket × 1
- Power adaptor × 1
- AC power cable × 1
- Cable clip (S) × 3
- Cable clip (L) × 1
- Cable tie × 1
- Window wedge × 1
- Window wipe × 2
- Screw bag × 1

## 1.2. Bottom and Side Panel

### Side panel



### Bottom panel



Part	Description
<b>LED</b>	The LED lights up in different ways to indicate the connectivity status of the 5G Internet Gateway.
<b>Multipurpose sync button</b>	Press this button once to connect the 5G Internet Gateway to Wi-Fi Extender or Wi-Fi Extender Mini devices via WPS or Bluetooth®. After the pairing is successful, the LED light will stop blinking blue.
<b>RJ45 port</b>	Connect the 5G Internet Gateway to PC or switch via an Ethernet cable.
<b>DC jack</b>	Connect the power adaptor to the DC jack to provide power to the 5G Internet Gateway from an electrical outlet.
<b>Reset pin hole</b>	Factor reset the device by pressing the pin hole for 5 seconds.

### 1.3. LED and Audio Behavior

Status	Front LED	Sound
<b>Device is booting up</b> Soft Fade in-out White		<b>Not Applicable</b>
<b>WPS and Bluetooth® pairing mode (Manual option)</b> Single press the multifunction sync button to establish connection		<b>Not Applicable</b>
<b>WPS/Bluetooth® is paired</b> Blue blinking ceases		<b>Click sound</b> Plays once immediately after establishing connection
<b>Activation completed</b> Device successfully connected to LTE, is activated and will start searching for 5G signal		<b>Click sound</b> Plays once immediately after activation
<b>No 5G signal</b> Device cannot detect 5G signal immediately after activation		<b>Error sound</b> Plays once immediately after switching to operational mode
<b>Poor 5G signal</b> 5G signal is detected after activation but signal strength is not strong enough.		<b>Error sound</b> Plays once immediately after switching to operational mode
<b>Passing 5G signal</b> Good 5G signal has been detected for installation.		<b>Good signal sound</b> Plays once immediately after

		switching to operational mode and finding passing signal
<b>Firmware update/Factory reset in progress</b>		<b>Not Applicable</b>
<b>Error (Fault)</b> Hardware or software issue		<b>Error sound</b> Plays once immediately after incident
<b>Working as advertised</b> Device setup is completed and Internet is active. Show solid white light and then dims to 50% brightness after 60 seconds.		<b>Not Applicable</b>
<b>Wi-Fi is disabled</b> Amber blinking ceases until Wi-Fi is enabled.		<b>Not Applicable</b>

## Chapter 2 Self-Setup and Activation

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### 2.1. Installation, Activation, and Setup

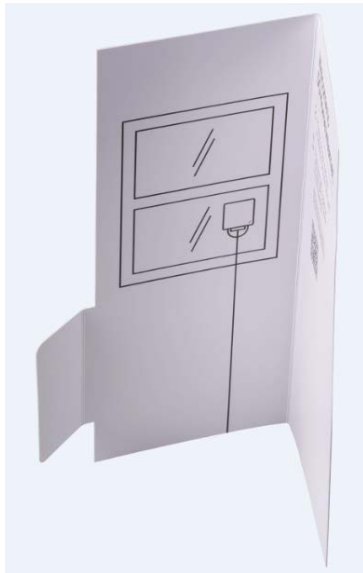
Please download the My Verizon Mobile app for installation, activation and setup of your 5G Internet Gateway. Take out the set up guide print from the gift box.

**Back side**

**Front side**

**This side should be printed with URL/QR code**

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Please do not remove anything from the box yet.

Scan the QR code to visit the URL on your mobile device or access  
<http://setup.verizon.com/5Ginternetgateway>







When installing the 5G Internet Gateway, make sure that the back side of the device faces towards the direction of the 5G signal.

**Back side:**

**This side should face the 5G signal**



**Front side:**

**This side should face inside the home.**





## **2.2. WPS Connection**

WPS can be used to pair your 5G Internet Gateway to the Wi-Fi Extender or Extender Mini by following these steps:

1. Short press the multipurpose sync button on your 5G Internet Gateway.
2. Short press the multipurpose sync button on the Wi-Fi Extender or Extender Mini, making sure the device is within range of the 5G Internet Gateway.
3. The 5G Internet Gateway will play a sound to indicate pairing success.

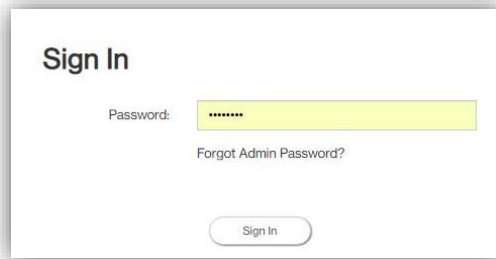
## Chapter 3

### Accessing the Web User Interface

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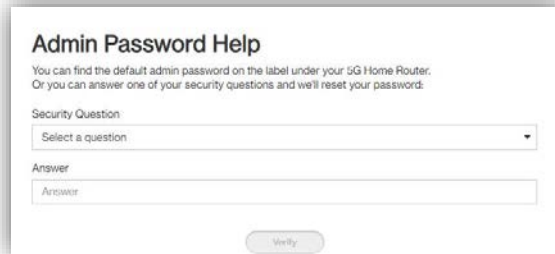
#### 3.1. Login

After connecting and turning on the 5G Internet Gateway, a **Sign In** screen will appear.

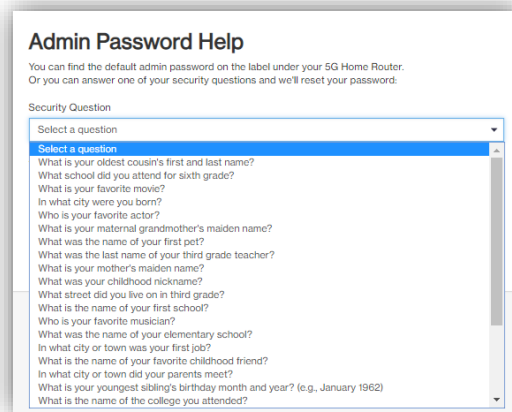


The image shows a 'Sign In' screen with a title 'Sign In'. Below the title, there is a 'Password:' label followed by a yellow input field containing seven asterisks. Below the password field is a link that says 'Forgot Admin Password?'. At the bottom of the screen is a rounded button labeled 'Sign In'.

Enter your admin password to log into the **Home Page** of the 5G Internet Gateway's Web GUI. If you forget your password, you can answer one of the security questions to reset the password to factory default settings.



The image shows an 'Admin Password Help' screen. It contains the following text: 'You can find the default admin password on the label under your 5G Home Router. Or you can answer one of your security questions and we'll reset your password:'. Below this is a 'Security Question' dropdown menu with 'Select a question' selected. Underneath is an 'Answer' input field with 'Answer' written inside. At the bottom is a rounded button labeled 'Verify'.



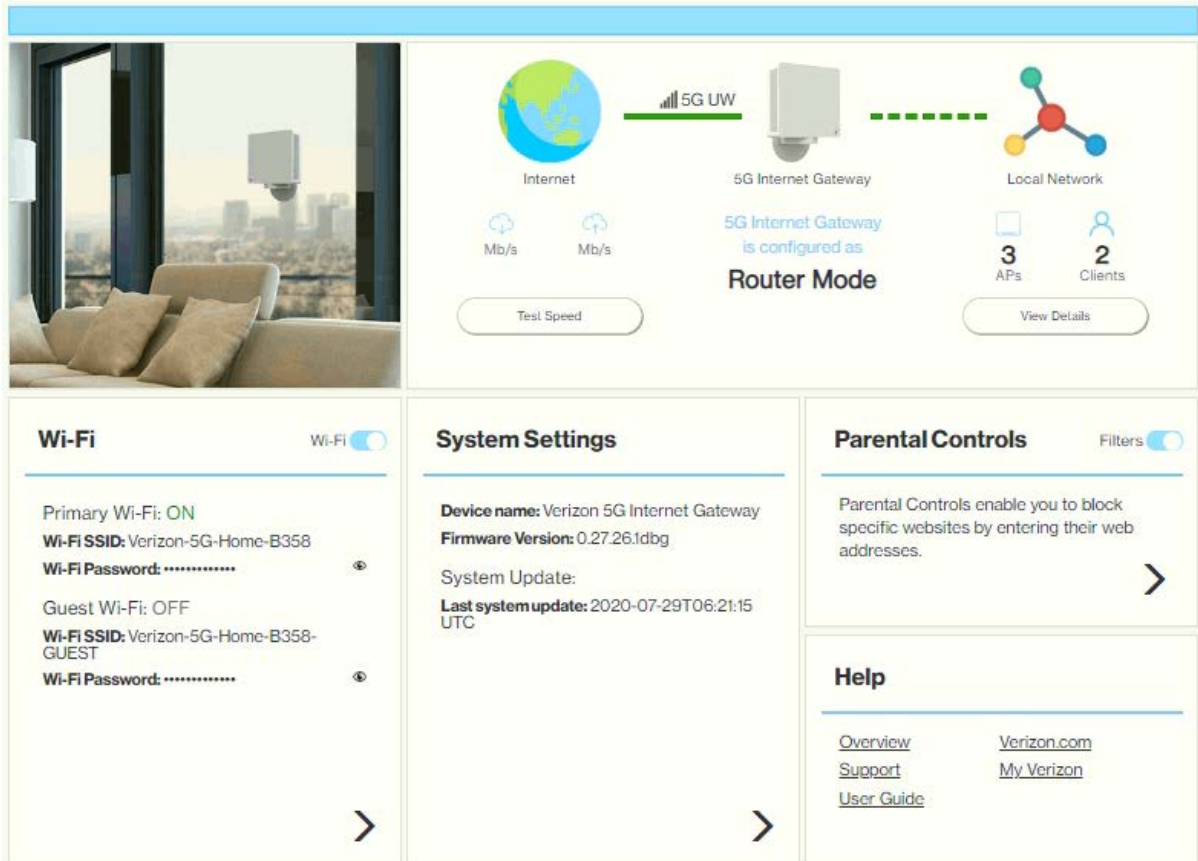
This image shows the same 'Admin Password Help' screen as above, but with the 'Security Question' dropdown menu expanded to show a list of 20 questions. The first question, 'What is your oldest cousin's first and last name?', is highlighted in blue. The other questions include: 'What school did you attend for sixth grade?', 'What is your favorite movie?', 'In what city were you born?', 'Who is your favorite actor?', 'What is your maternal grandmother's maiden name?', 'What was the name of your first pet?', 'What was the last name of your third grade teacher?', 'What is your mother's maiden name?', 'What was your childhood nickname?', 'What street did you live on in third grade?', 'What is the name of your first school?', 'Who is your favorite musician?', 'What was the name of your elementary school?', 'In what city or town was your first job?', 'What is the name of your favorite childhood friend?', 'In what city or town did your parents meet?', 'What is your youngest sibling's birthday month and year? (e.g., January 1962)', and 'What is the name of the college you attended?'.



You can find the default password on the label under the 5G Internet Gateway.

### 3.2. Home Page/Main Section

After logging in, the **Home Page** of the 5G Internet Gateway will appear.



The **Home Page** is where users can check the connection status between the 5G Internet Gateway and the Internet/mesh network, conduct network speed tests, and adjust settings such as Wi-Fi options, parental controls, and more. In the upper right panel of the screen, the **Network Map** presents a list of devices that are currently connected to the 5G Internet Gateway. Below that, the screen is divided into three columns: **Wi-Fi** on the left, **System Settings** in the middle, and **Parental Controls** and **Help** on the right.

The drop-down menu on the upper right of the **Home Page** includes selections such as **Admin Settings**, **My Verizon**, **Restart 5G Internet Gateway**, and **Sign Out**.

### 3.2.1. Network Map (Speed test, Mesh network)

The **Network Map** is located in the upper-right section of the **Home Page**. The lines between the 5G Internet Gateway and the Internet/mesh network/devices on the map indicate the connection status between them. A solid green line indicates a wired connection, a dashed line indicates a Wi-Fi connection, and a gray line with a red x in the middle indicates that there is no connection.

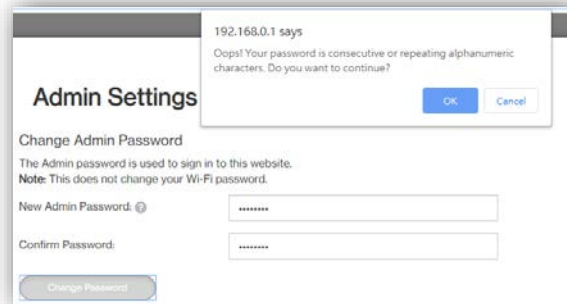
To test the connection speed between the 5G Internet Gateway and the Internet/other networks, click the “Test Speed” button on the lower left of the **Network Map**.

The number of APs and clients currently connected to the network are indicated in the lower right section of the **Network Map**.

### 3.2.2. Admin Settings

The Change Admin Password section enables you to change the Admin password that is used to sign in to the 5G Internet Gateway’s **Home Page**. Type the desired admin password in the New Admin Password field, then type the admin password again in the Confirm Password field. Click **Change Password** to apply the new password.

If the password you enter contains three consecutive or repeating alphanumeric characters, a window will pop up as a warning of insufficient password strength.



In the Security Questions section, you can choose three security questions, then enter the answer for each question. If a user forgets his/her admin password, one of the questions will be used to revert the admin password to factory default settings. Click **Save** to save your changes. Click **Close** to close the Admin Settings window.

### 3.2.3. My Verizon

You will be directed to My Verizon, where you can manage your account online. With My Verizon, you can also pay your bill, check your usage and view your order status.

### 3.2.4. Restarting the 5G Internet Gateway

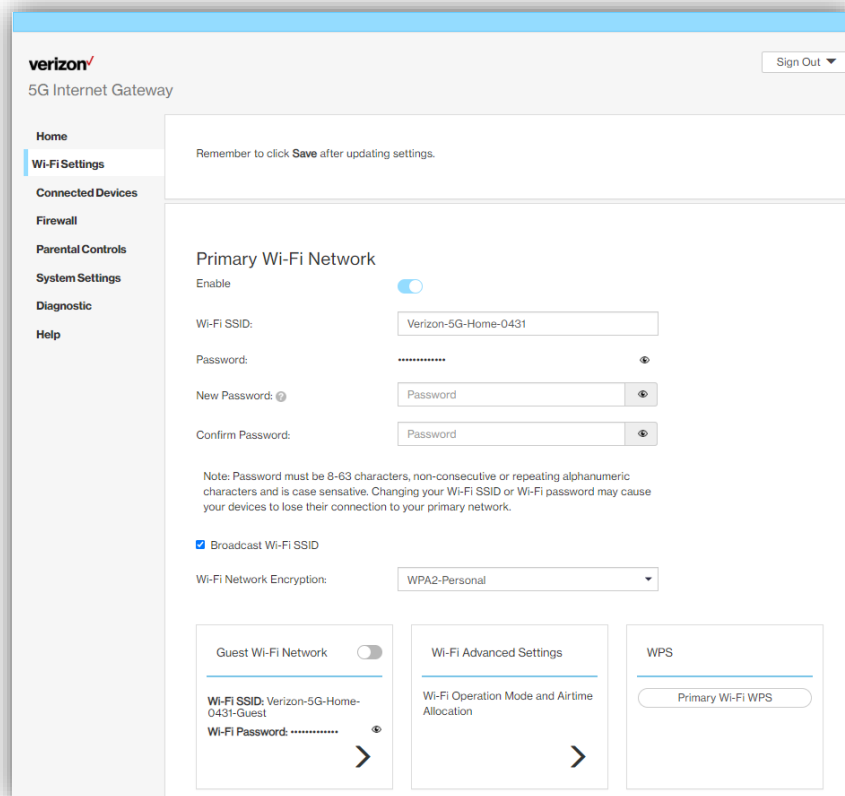
To restart the 5G Internet Gateway, click the drop-down arrow and select **Restart 5G Internet Gateway**. A window will appear on the screen. Click **Restart** to restart the 5G Internet Gateway.

### 3.2.5. Sign Out

Click **Sign Out** to log off the 5G Internet Gateway.

### 3.3. Wi-Fi Settings

Click the > arrow on the bottom-right side of the **Wi-Fi** column in the **Home Page** to bring up the Wi-Fi page. On this page, you can adjust settings for the Primary Wi-Fi Network, Guest Wi-Fi Network, Wi-Fi Advanced Settings, and WPS.




#### 3.3.1. Primary Wi-Fi Network

Slide the **Enable** switch to the right to activate the Primary Wi-Fi network. The switch will turn blue to indicate that the selected Wi-Fi network is turned on. To turn off the Primary Wi-Fi network, slide the switch to the left.

### 1. Wi-Fi name (SSID)

The Wi-Fi name (SSID) is the name of the wireless network broadcasting from the 5G Internet Gateway. In order for devices to connect to the local network over a wireless link, they must select this network name from the list of detected wireless networks in the area.

### 2. Password

Specify a password for your wireless network. Click the  icon to display the selected password for the SSID.

### 3. New Password

Enter a new password here for the SSID.

### 4. Confirm Password

Type your new password here.

Note: Passwords must be 8–63 characters long and are case sensitive. Changing your Wi-Fi name or password may cause devices to lose their connection to the primary network.

### 5. Broadcast Wi-Fi Name (SSID)

Check this box if you want to broadcast your SSID. The SSID will be displayed when you search for available networks.

### 6. Wi-Fi network encryption





Select one security method from the drop-down menu. The encryption types include None, WEP-64, WPA2-Personal, and WPA-WPA2-Personal.

### 3.3.2. Guest Wi-Fi Network

Slide the **Enable** switch to the right to activate the Guest Wi-Fi network. The switch will turn blue when the guest network is enabled. To turn off the Guest Wi-Fi network, slide the switch to the left.

**Guest Wi-Fi Network**

Enable Guest Wi-Fi:

Wi-Fi name (SSID):

Password:

New Password:

Confirm Password:

Note: Password must be 8-63 characters and is case sensitive. Changing your Wi-Fi name or Wi-Fi password may cause your devices to lose their connection to your primary network.

Broadcast Wi-Fi Name (SSID)

Wi-Fi network encryption:

#### 7. Wi-Fi name (SSID)

The Wi-Fi name (SSID) is the name of the wireless network broadcasting from the 5G Internet Gateway. In order for devices to connect to the local network over a wireless link, they must select this network name from the list of detected wireless networks in the area.

#### 8. Password

Specify a password for your wireless network. Click the icon to display the selected password for the SSID.

#### 9. New Password

Enter a new password here for the SSID.

#### 10. Confirm Password

Retype the new password here.

**Note:** Passwords must be 8–63 characters long and are case sensitive. Changing your Wi-Fi name or password may cause devices to lose their connection to the primary network.

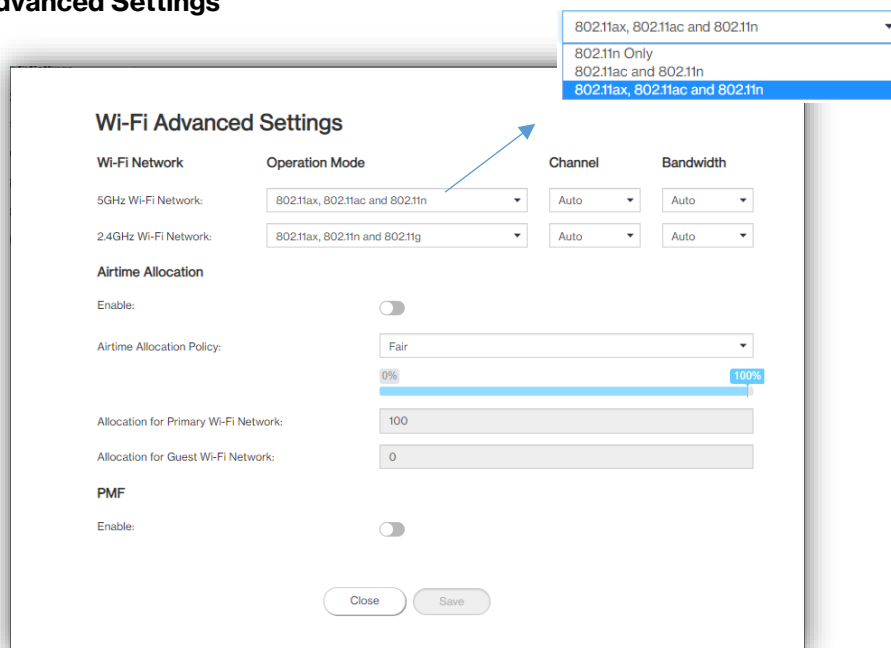
### 11. Broadcast Wi-Fi Name (SSID)

Check the box if you want to broadcast the SSID. The SSID will be displayed when you search for available networks.

### 12. Wi-Fi network encryption

Select one security method from the drop-down menu. The encryption types include None, WEP-64, WPA2-Personal, and WPA-WPA2-Personal.

### 3.3.3. Wi-Fi Advanced Settings



### 13. Wi-Fi Network Operation Mode

On this page, you may adjust the operation mode, channel, and bandwidth for the 5 GHz and 2.4 GHz primary Wi-Fi networks as well as adjust airtime allocation.

The options provided for the 5 GHz primary Wi-Fi network include:

802.11n only

802.11ac and 802.11n

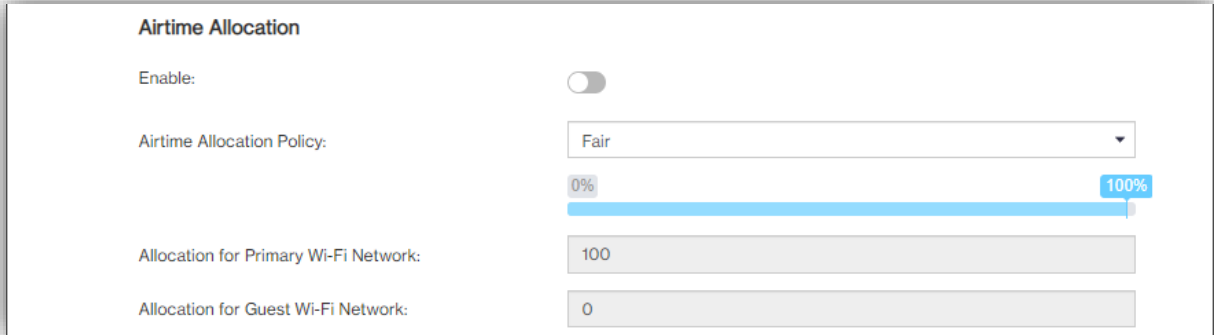
802.11ax, 802.11ac and 802.11n

The options for the 2.4 GHz primary Wi-Fi network include:

802.11n and 802.11g

802.11ax, 802.11n and 802.11g

#### 14. Airtime Allocation



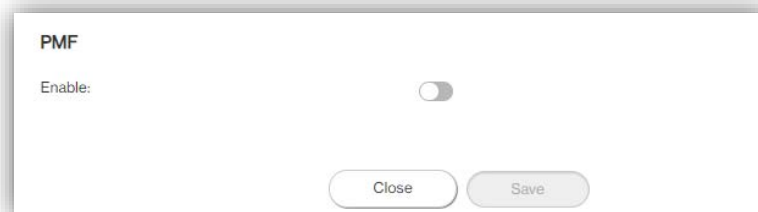
Slide the **Enable** switch to the right to activate this function. The switch will turn blue when airtime allocation is enabled. To disable airtime allocation, slide the switch to the left.

When ATF is enabled, the system needs to be restarted for it to take effect.

In the Airtime Allocation Policy pull-down menu, two policy options are available: Fair and Strict.

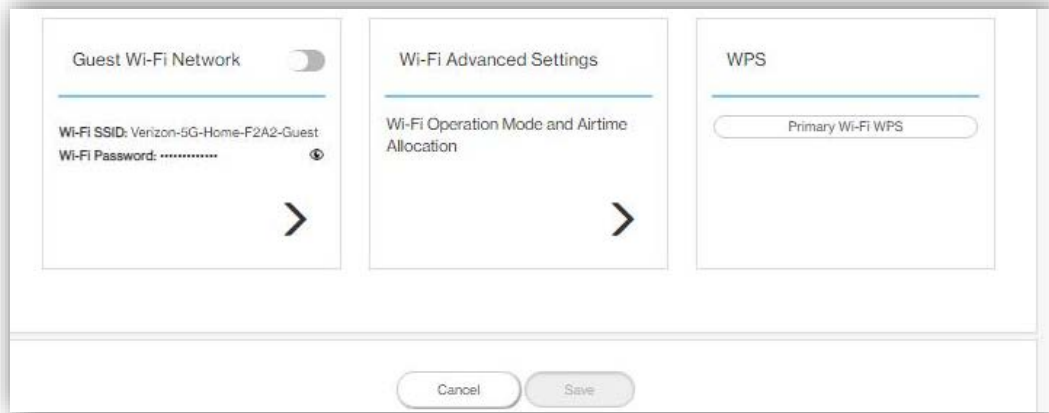
Use the slider below the Airtime Allocation Policy pull-down menu to adjust the percentage of resources allocated to the primary and guest Wi-Fi networks. Sliding the bar to the right increases the allocation percentage for the primary Wi-Fi network, while sliding the bar to the left increases the allocation percentage for the guest Wi-Fi network. The allocation percentages for the primary and guest Wi-Fi networks are shown in the two fields on the bottom of the page, and change in real-time when the slider is adjusted.

#### 15. PMF



Slide the switch to the right to enable PMF (protected management frames) on your 5G Internet Gateway.

### 3.3.4. WPS

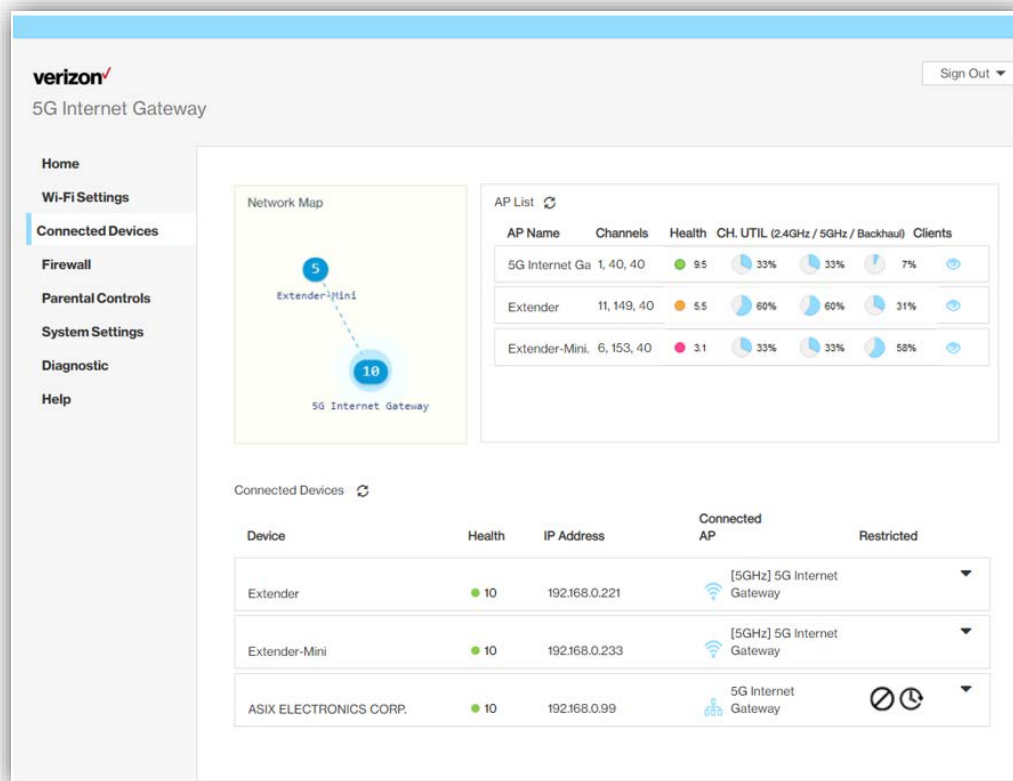


#### 16. Primary Wi-Fi WPS

WPS allows rapid wireless connection between the 5G Internet Gateway and other WPS-compatible devices. You can trigger the WPS function on Primary Wi-Fi by clicking on the **Primary Wi-Fi WPS** button.

### 3.4. Connected Devices

This section displays information about the devices connected to the APs, illustrated through a Network Map, as well as the AP list and Connected Devices table.



#### 3.4.1. Network Map

The Network Map illustrates the mesh network comprising the connected APs, their names, as well as their respective connection status.

The number in the circle indicate the number of clients currently connected to the AP.

#### 3.4.2. AP List

The section presents detailed information of each AP, including the name of the AP, wireless radio channel information, health of the connection status, usage of the 2.4 GHz and 5 GHz Wi-Fi, backhaul usage, and the number of connected clients.

#### 3.4.3. Connected Devices

The name of each device that has been connected/is currently connected to the 5G Internet Gateway is displayed here. Also displayed are the health of their connection status, their IP



addresses, which AP a device is connected to, and the restriction policies related to each device (if any).

Connected Devices

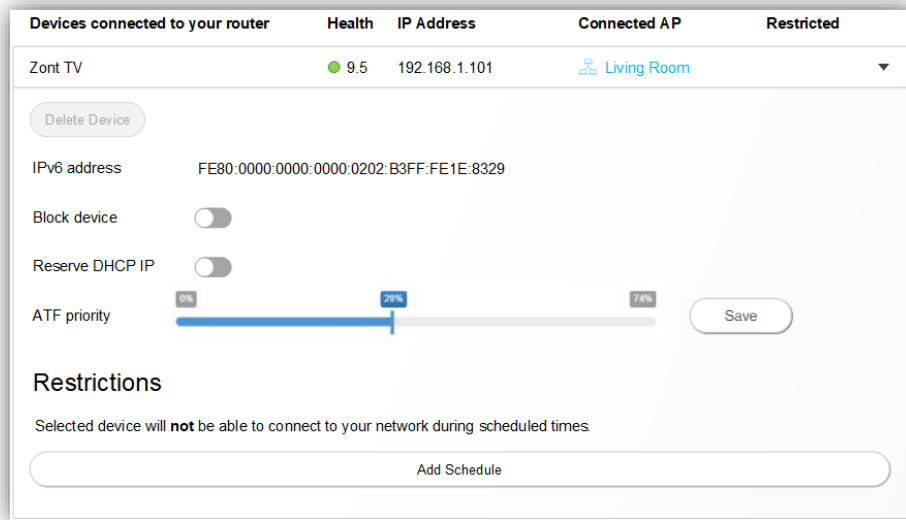
Device	Health	IP Address	Connected AP	Restricted
Extender-Mini	10	192.168.10.185	[5GHz] 5G Internet Gateway	▼
Unnamed device	9.2	192.168.10.220	[5GHz] 5G Internet Gateway	▼
SAMSUNG-SM-N950U	10	192.168.10.155	[5GHz] 5G Internet Gateway	▼
Unnamed device	10	192.168.10.9	[5GHz] 5G Internet Gateway	▼
VZW_P001	8.5	192.168.10.103	[5GHz] 5G Internet Gateway	▼

Connected Devices

Devices connected to your router

Device	Health	IP Address	Connected AP	Restricted
Zont TV	9.5	192.168.1.101	Living Room	▼
Frank-iPhone	5.5	192.168.1.102	[2.4GHz] Living Room	▼
PlayStation4	3.1	192.168.1.103	Living Room	▼
OldSchoolNB	9.5	192.168.1.151	[5GHz] Basement	▼
Kevin-iPad	5.5	192.168.1.152	[2.4GHz] Basement	▼
May-Phone1	--	192.168.1.104	[5GHz] Living Room	▼
winPC	--	192.168.1.105	[5GHz] Living Room	▼
JoJo-NB	--	192.168.1.106	[5GHz] Living Room	▼
May-Phone2	--	192.168.1.153	[2.4GHz] Basement	▼
Kevin-iPad	--	192.168.1.154	[5GHz] Basement	▼

Select the arrow icon “▼” on the right that correspond to a connected device, and related information and settings for the device will be displayed, including its IPv6 address, whether to delete the device, block the device, or reserve DHCP IP.



The **Delete Device** button enables you to remove the selected device which has connected to the 5G Internet Gateway. Once removed, the computer/device will not be displayed on this page.

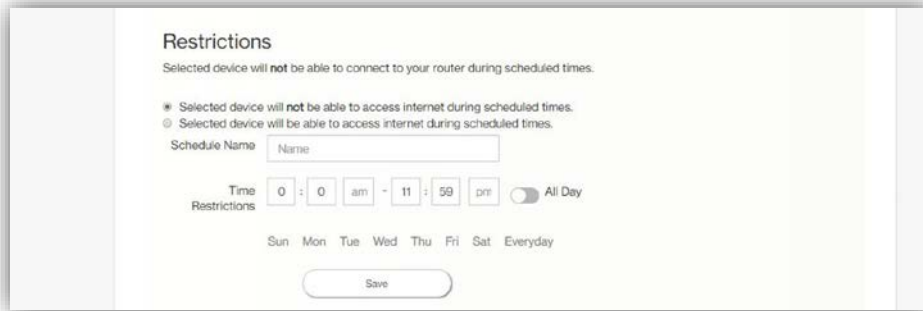
The **Block Device** switch allows you to block or allow computers or devices from establishing a connection to the 5G Internet Gateway. To block a device, slide the **Block Device** switch to the right. The switch will be blue when the feature is enabled.



The **Reserve DHCP IP** switch enables the 5G Internet Gateway to assign the same IP address to a specific device whenever that device connects to your network. To reserve DHCP IP, slide the **Reserve DHCP IP** switch to the right.

When a Wi-Fi client is connected and the **Airtime Allocation** feature is enabled, you will be able to adjust the airtime percentage for each client. It is recommended that you use 90% to leave margin for other clients that are not set with a non-zero ATF percentage.

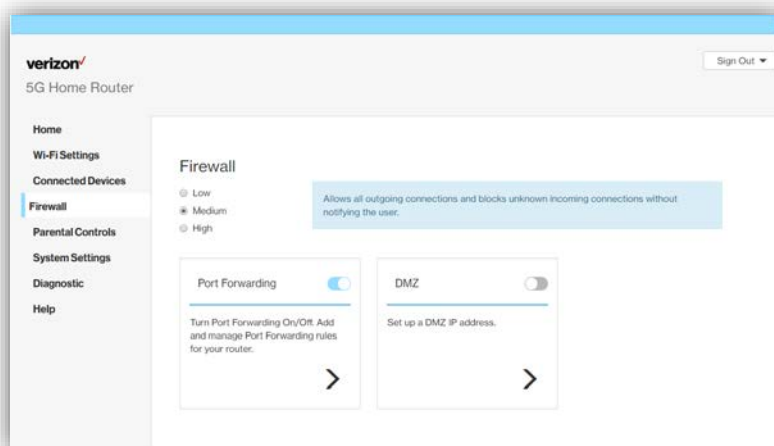
### Restrictions





This section enables you to set restriction policies for the selected device. You can specify the time during which the selected device will not be able to access Internet. Alternatively, you may also specify the time during which the selected device will be able to access Internet. The settings you can perform in this section include the name of the schedule and the time period for the restriction policy. Click **Save** to save your settings. The  icon indicates that the selected device is blocked permanently. The  icon indicates that the device is only restricted during the specified periods of time.

### 3.5. Firewall



A firewall is used to prevent traffic from entering and/or leaving the areas of your network. In this section you can select **Low** for minimum level of security, **Medium** for typical level of security, and **High** for maximum level of security.

### 3.5.1. Port Forwarding

Application	Port From	Protocol	IP Address	Port To	Enabled	Remove
For app 1	8080	TCP	192.168.0.150	8899	<input checked="" type="checkbox"/>	✕

Port Forwarding can be used to open certain ports of a device to communicate with an Internet service. To turn on Port Forwarding, slide the Port Forwarding switch on the bottom right of the General Information page to the right. The switch turns blue to indicate that the function is turned on. To turn off this function, slide the switch to the left. To access this page, click Port Forwarding on the General Information page.

From the Port Forwarding page, enter the appropriate forwarding options listed on the page, then click Add to save your changes, or click Cancel to discard any changes you made. Click Close to close this page. The options include:

#### Add Rules

##### 17. Rule Name

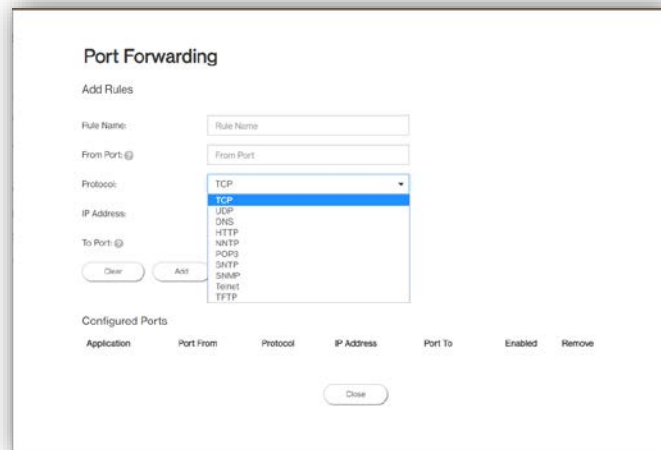
Type the name of the service for which the port forwarding rule has been created in the Rule Name text field.

##### 18. From Port

Type the value of the WAN port from which you want to forward packets. Please note that only a single port (for instance, 3000) or range (for instance, 3000–3005) can be specified. 0 would mean any port.

### 19. Protocol

Choose the protocol to be used for port forwarding.



### 20. IP Address

The local server's IP address.

### 21. To Port

Type the value of the LAN port to which you want to receive the forwarded packets.

### Configured Ports

Application	Port From	Protocol	IP Address	Port To	Enabled	Remove
Multiport	3000-3005	TCP	192.168.0.199	3000-3005	<input checked="" type="checkbox"/>	×

Close

This table displays the ports that have been configured.

### 22. Application

The created rule name will be displayed here.

### 23. Port From



This shows the value of the start port.

#### 24. Protocol

This shows the protocol selected for the corresponding port forwarding rule.

#### 25. IP Address

This shows the local server's IP address.

#### 26. Port To

This shows the value of the end port.

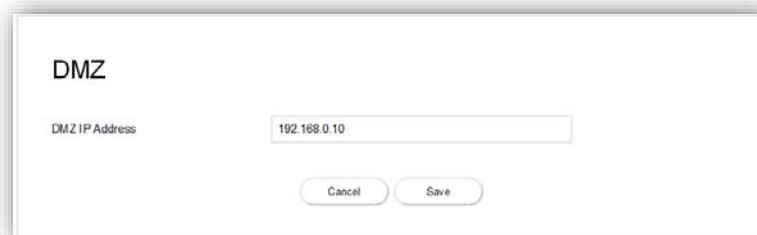
#### 27. Enabled

The  icon indicates that the corresponding port forwarding rule has been enabled.

#### 28. Remove

Click on the x icon to delete a port forwarding rule.

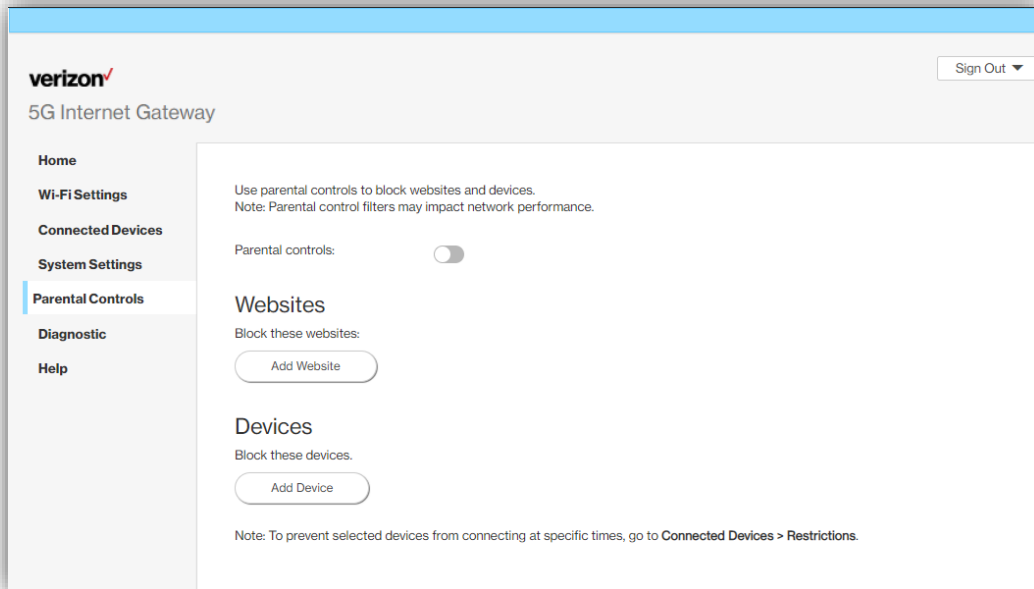
### 3.5.2. DMZ



The image shows a dialog box titled "DMZ". Inside the dialog, there is a label "DMZ IP Address" followed by a text input field containing the IP address "192.168.0.10". Below the input field are two buttons: "Cancel" and "Save".

DMZ (De-Militarized Zone) allows you to specify a DMZ host IP to redirect requests to a virtual DMZ host in order to enhance the security of the local area network. To enable DMZ, slide the **DMZ enable** switch to the right. If this function is enabled, threats from external networks will be directed to the DMZ instead of the network. The **DMZ IP address** field indicates the IP address of the host DMZ. To designate a device as a DMZ host, enter its IP address in the **DMZ IP Address** field. Click **Save** to apply the changes, or click **Cancel** to undo your configuration.


### 3.6. Parental Controls



By creating Internet access policies, Parental Controls allow you to control and monitor Internet access. Parental Controls can be activated on the Home page by sliding the Filters switch in the Parental Controls column.

You can also enable or disable the function after you enter the Parental Controls page. Slide the Parental controls switch to the right. When the switch is blue, parental control of websites and devices is enabled. To turn off this function, slide the switch to the left.

#### 3.6.1. Websites

This function can be used to block computers or devices from accessing certain websites through the 5G Internet Gateway. The websites that have been blocked are displayed on the screen. To add a website to the block list, click **Add Website** and enter the website in the input field. Click **Add** to save your changes, or click on the  icon to remove the selected website from the block list.

#### 3.6.2. Devices

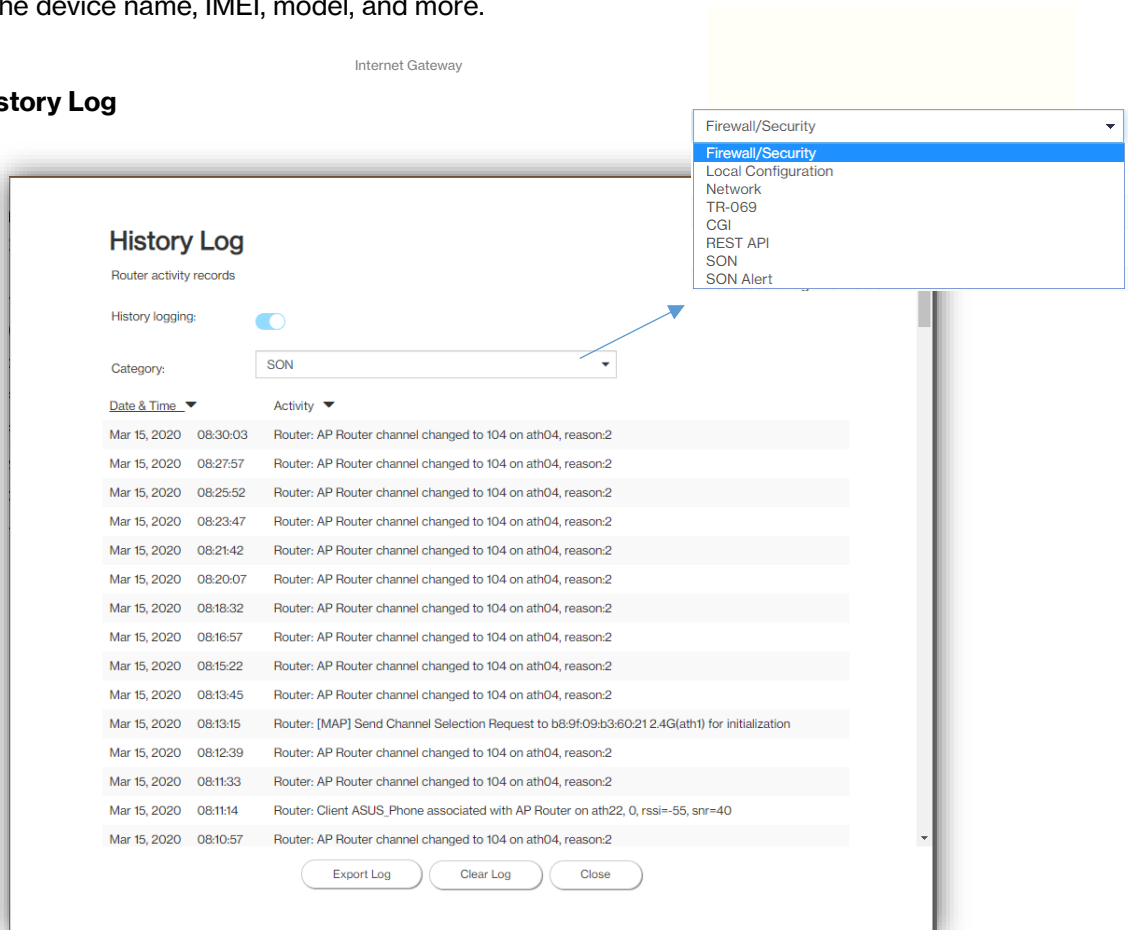
To add a device to the block list, click **Add Device**. A drop-down list will display the devices that are currently connected to the 5G Internet Gateway and their MAC address. Select the device that you want to block, then click **Include**. The devices that appear on this list will be not be able to access any of the websites listed in the Websites section.

### 3.7. System Settings

#### 3.7.1. General Information

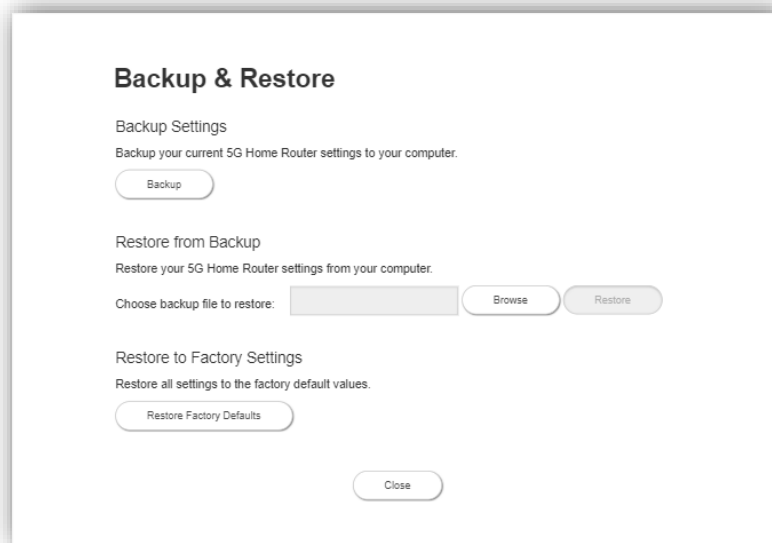
The **General Information** page provides device information on the 5G Internet Gateway, including the device name, IMEI, model, and more.

#### 3.7.2. History Log



The **History Log** page provides various activity records of your 5G Internet Gateway. To access this page, click **History Log** on the General Information page.

### 3.7.3. Backup & Restore



The **Backup & Restore** page covers functions for backing up/restoring the settings on your 5G Internet Gateway and resetting it to factory settings. To access this page, click **Backup & Restore** on the **General Information** page.

### 3.7.4. LAN Settings

The LAN Settings page includes settings to configure advanced LAN settings (e.g., IP address, Subnet mask, DHCP) for your 5G Internet Gateway. To access this page, click LAN Settings on the General Information page.

#### LAN Configuration

In this section, enter the desired info in the following fields:

#### 29. 5G Internet Gateway IP address

Specify a range of IP addresses the 5G Internet Gateway may assign to devices. The default LAN IP configuration is 192.168.0.1.

#### 30. Subnet Mask

The subnet mask along with the previously configured IP address defines the network. The default value for subnet mask is 255.255.255.0.

#### 31. DNS Server





Use this function to toggle whether the DNS server is set automatically or manually.

### DHCP

DHCP assigns LAN IP addresses for connected devices. You can specify the range of IP addresses the 5G Internet Gateway may assign to devices. Click the DHCP switch to turn the DHCP function on or off. You can also enter the desired information in the following fields:

#### 32. DHCP Start Address

Specify the address that starts the range for the pool of IP addresses in the same subnet as the 5G Internet Gateway.

#### 33. DHCP End Address

Specify the address that ends the range for the pool of IP addresses in the same subnet as the 5G Internet Gateway.

#### 34. Lease Time

You can specify a period of time after which an assigned IP address will be retrieved from devices.

### UPnP

For devices that support Universal Plug and Play (UPnP), enabling the UPnP function will allow automatic port forwarding that helps your UPnP devices communicate with the Internet.

Slide the **UPnP** switch to the right to enable the feature. Slide the **Enable Automatic Cleanup of Old Unused UPnP Service** switch to enable the automatic cleanup of invalid rules. When enabled, old and unused UPnP defined services will be removed.

#### 35. Static Leases

Click on the **Add Static Lease** button to add a new one. Enter the MAC address of a device, and give each one a host name, then assign a corresponding IP address.

### 3.8. Diagnostic

Ping	AP1 << AP2	AP1 >> AP2

You can perform a throughput test between two APs here. Select AP1 and AP2 and click the **Run** button to begin the throughput test. The results will be displayed in the Results section, which also shows Ping, throughput from AP1 to AP2 and vice versa.

## Chapter 4

### Product Specifications

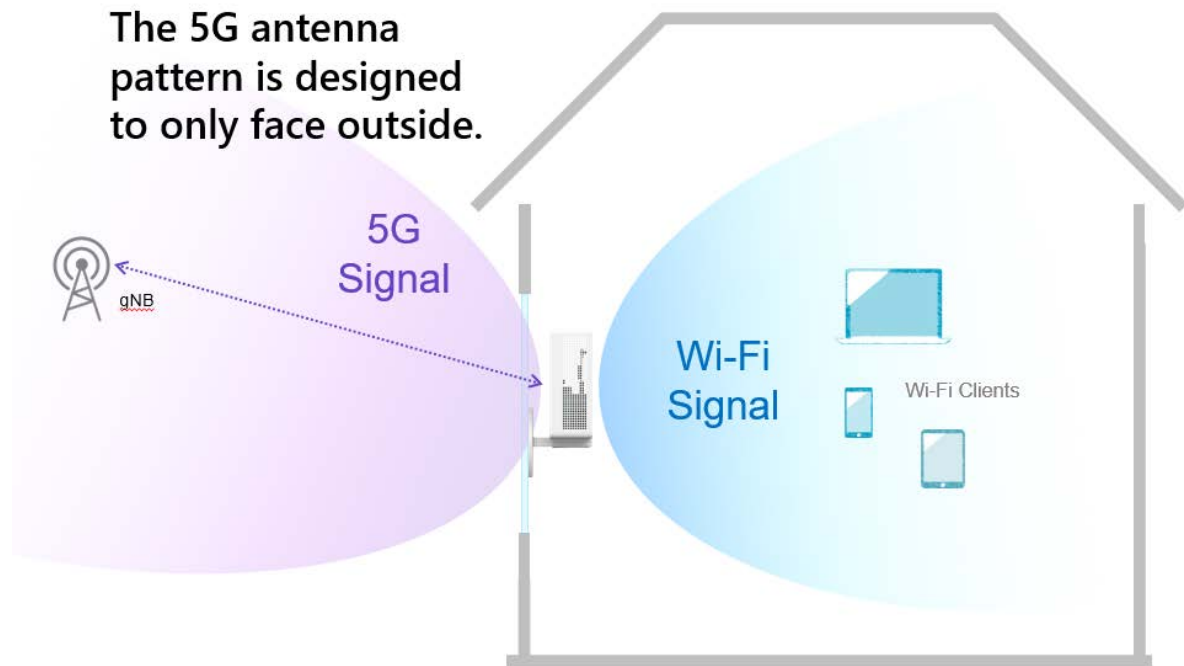
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<b>5G</b>	<ul style="list-style-type: none"> <li>• 5G n260/n261</li> <li>• 5G n2/n5/n66</li> </ul>
<b>4G</b>	<ul style="list-style-type: none"> <li>• LTE CAT16, Band 2/4/5/13/48/66</li> </ul>
<b>Wi-Fi</b>	<ul style="list-style-type: none"> <li>• 2.4GHz 802.11ax 2x2 MIMO</li> <li>• 5GHz 802.11ax 4x4 MIMO</li> <li>• Backward compatible with 11ac/11n/11b</li> </ul>
<b>IoT</b>	<ul style="list-style-type: none"> <li>• Bluetooth® 5.0</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 5G Internet Gateway: DDR4 RAM 1GB</li> <li>• Router: DDR4 RAM 1GB</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 5G Internet Gateway: NAND 1GB</li> <li>• Router: NAND 1GB</li> </ul>
<b>Dimensions</b>	<ul style="list-style-type: none"> <li>• 220 x 220 x 86 mm</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>• 1.9 KG</li> </ul>
<b>Connector</b>	<ul style="list-style-type: none"> <li>• 2.5GbE LAN port × 1</li> <li>• DC Jack × 1</li> </ul>
<b>Button</b>	<ul style="list-style-type: none"> <li>• Multipurpose sync button × 1</li> <li>• Reset pinhole × 1</li> </ul>
<b>Operating Temperature</b>	<ul style="list-style-type: none"> <li>• 0 °C–40 °C</li> </ul>

**Appendix**  
**Installation Guide**

---

**Operational Communication Signal**





## Self-installation - Quick Start Guide

### Initial Installation

#### Step 1 -

Attach the bracket to the 5G Internet Gateway before plugging in the power cable.



**Step 2 & 3 –**

Attach the power cable to the AC adapter and plug the cable into an electrical outlet.





### **Boot up & Paring**

LED indicator will turn soft fade in-out White.



### **Signal Scanning**

Hold the 5G Internet Gateway close to the window to perform signal scanning.





**Step 1 –**

**Confirm the signal orientation. The LED will change to one of the follow status:**

- **Good signal: Solid green**
- **Poor signal: Solid yellow**
- **No/Bad signal: Solid red**





**Window Installation**

**Step 1 –**

Use window wipes to clean the chosen installation location.



**Step 2 –**

Press the bracket for 30 seconds to make sure that it is fully adhered to the window.



**Step 3 –**

Adjust the angle of your 5G Internet Gateway.





Turn the tab at the bottom to lock the 5G Internet Gateway in a specific angle.



# **User Guide**

**Verizon 5G  
Home Router**

## **Federal Communication Commission Interference Statement**

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

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

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

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

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

Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

## **Radiation Exposure Statement**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 29cm between the radiator & your body.

## **Safety Warnings**

### **Adapter**

Do not use any other power adapter except the one that accompanies this unit or a power adapter identified in the list below.

Use of another adapter could result in damage to the unit.

The following power adapter is qualified for use with this Verizon 5G Home Router.

This unit must be powered by FSP, model FSP120-AWAN3-W or equivalent UL listed power source rated @ output 54Vdc, Minimum 2.0A.

### **Battery**

Do not use any other battery. Risk of explosion if battery is replaced by an incorrect type. To prevent electrical shock, please do not open the cover.

The following battery is qualified for use with this Verizon 5G Home Router.

Joules Miles Co., Ltd, model BTY-LRV5000 (3.6Vdc, 2280mAh, 8.208Wh)

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# Chapter 1

## Introduction

This chapter includes a list of items included with the Router, the minimum system requirements for using the Verizon 5G Home Router, and an overview of the Router's features.

---

### 1.1 Package Contents

The product package should contain the following items:

- Verizon 5G Home Router
- AC adapter
- Power cord
- Ethernet cable
- Rechargeable battery

### 1.2 System Requirements

The Verizon 5G Home Router requires the following systems and software:

- Computers with Ethernet capability
- TCP/IP network protocol installed on each computer

### 1.3 Features

- Twenty four hours standby time for the battery
- Remote Device Management/FOTA/OMADM
- Administration website
- REST API
- WAN port with PSE 60W support on CPE

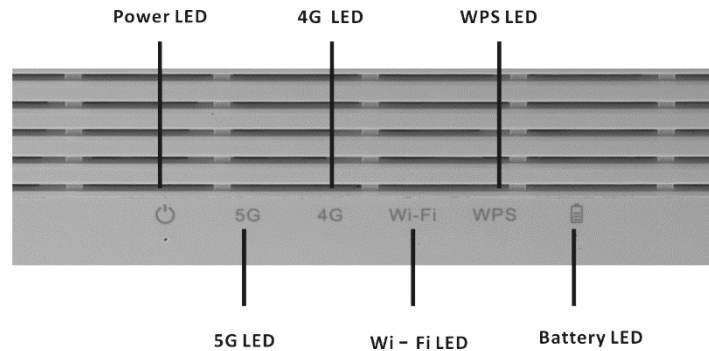


## 1.4 Getting to Know the Router

This section contains a short description of LED indicators on the Router's front panel, and the ports and buttons on its rear panel.

### Front Panel/LED lights

The front panel of the Router features six LEDs.



#### Power LED

The Power LED indicates the Router's status. If the Power LED glows green, the Router is on. If the Power LED is amber, there is a malfunction, hardware failure, or a boot error.

#### 5G LED

If the 5G LED glows green, the Router can communicate to servers via 5G. If the 5G Connectivity LED is amber, there is no 5G connectivity and the Router will switch to 4G fallback mode if 4G is available.

#### 4G LED

When the 4G LED glows green, the Router can communicate to servers via 4G. When the LED is amber, there is no 4G signal. When it blinks amber, a SIM card is missing or invalid.

#### Wi-Fi LED

The Wi-Fi LED glows green when the Router is transmitting a Wi-Fi signal. The LED glows amber to indicate Wi-Fi radio error. When the LED is off, the Router is not transmitting a Wi-Fi signal.

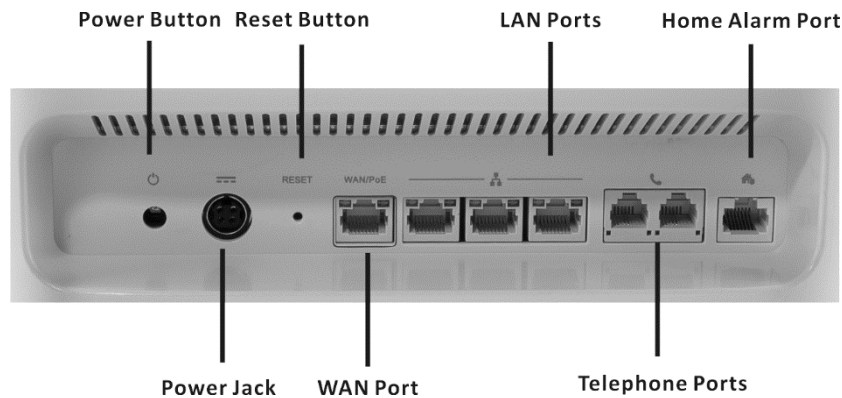
#### WPS LED

The WPS LED blinks green to indicate that the WPS button has been pressed and pairing is active. When pairing is successful, the LED will glow green. When the LED glows amber, there is a pairing error. The LED is off when WPS is not in use.

#### Battery LED

When the Battery LED glows green, the Router is plugged in and charging on AC power. The LED glows amber when the Router is on battery power, and battery life is between 25% and 100%. The LED blinks amber when battery life is below 25%. The LED turns off when the battery is depleted or removed.

## Rear Panel



### Power Button

Press this button to turn the Router on or off.

**Note:** It is essential to keep the power button on to enable the VoLTE feature and E911. If you turn off the Router by pressing the power button, be sure to wait for approximately five seconds before turning on the device again. Failing to do so could disrupt the power supply to the 5G CPE. (PSE will continue to supply power when the power button is not pressed.)

### Reset Button

To reset the Router, press and hold this button for approximately 1–10 seconds. To perform a factory reset, press and hold this button for over 10 seconds.

### LAN Ports

The three LAN Ports enable you to connect devices to the Router via Ethernet cables.

### Home Alarm Port

This feature will be available soon.

### Power Jack

The Power Jack connects the Router to an electrical outlet via the power cord.

### WAN Port

The WAN Port connects the Router to the 5G CPE using an Ethernet cable. To power off the 5G CPE, unplug the Ethernet cable from this port.

### Telephone Ports

This feature will be available soon.

# Chapter 2

## Connecting the Router

This section describes Router set up and configuration.

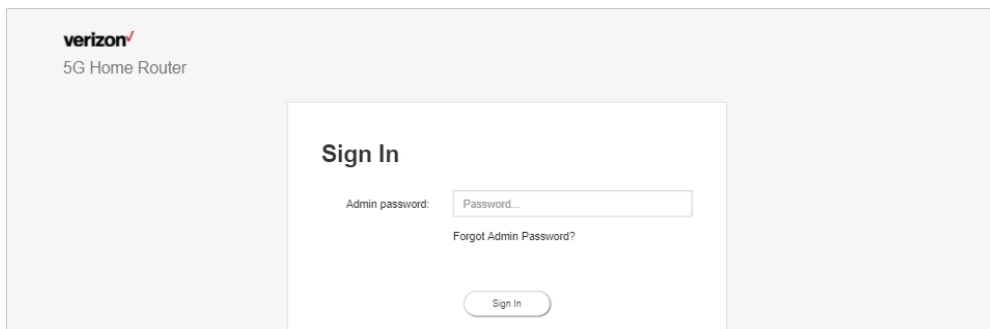
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### 2.1 Setting up the Router

- 1 Unbox the Router, AC adaptor, and power cord.
- 2 Connect the AC adapter to the power cord.
- 3 Plug the power cord into an electrical outlet, then connect the adapter to the power jack on the back of the Router.
- 4 Press the power button to turn on the Router.
- 5 During initialization, the Power LED on the front of the Router will glow amber for approximately 35 seconds before it turns green. Wait for one minute until the initialization finishes before proceeding to Step 6. It takes at least three minutes for the Router to boot up.
- 6 Plug an Ethernet cable into one of the LAN ports on the back of the Router.
- 7 Power up a computer, then plug the other end of the Ethernet cable into an Ethernet port on the computer.

### 2.2 Configuring the Router

- 1 Open a web browser on the computer that is connected to the Router. In the address text box, type 192.168.0.1 or http://my.router in the address bar, then press Enter on the computer's keyboard.
- 2 The following Login screen will appear.



3. Type in the admin password written on the label of the Router. Then click **Sign In**. The Router is now configured.

**Note:** We recommend that you change the password for greater system security. Please access the administration website and click **Admin Settings** on the drop-down menu on the top right of the administration website's **Home** page.

## 2.3 Connecting Other Devices

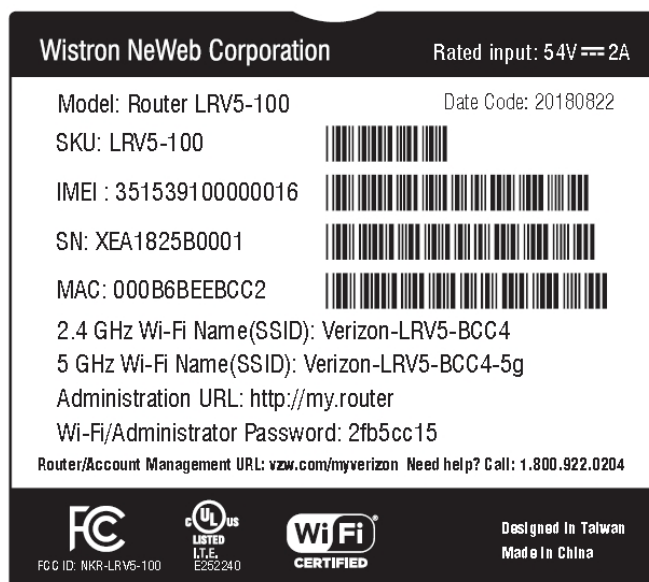
The Router can connect to other devices via Ethernet and via wireless connection.

### Ethernet

1. Take an Ethernet cable and plug one end into one of the Ethernet ports on the back of the Router.
2. Plug the other end of the Ethernet cable into an Ethernet port on the device.
3. Repeat these steps to connect other devices to the Router via Ethernet.

### Wireless

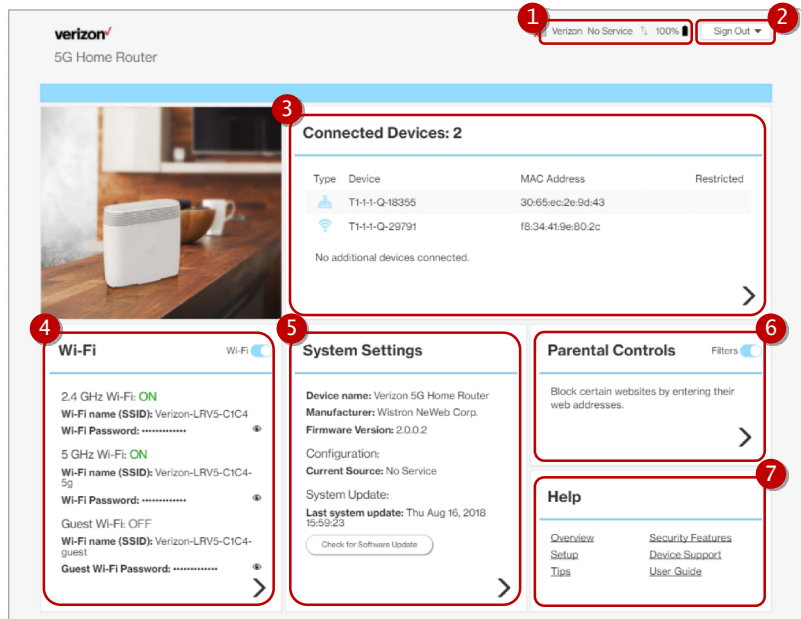
1. Ensure that the devices to be connected wirelessly to the Router have Wi-Fi capability.
2. Make sure the devices use the same SSID and password as the Router by launching the devices' wireless application.
3. Make sure the Wi-Fi LED on the front of the Router glows green.
4. Enter the SSID and password displayed on the label on the bottom of the Router in the devices' wireless settings and click Save.



5. Make sure the changes are successfully applied by surfing the Internet using the connected devices.

## 2.4 Home Page/Main Section

After logging in, the Router **Home** screen appears.



In the upper right panel of the screen, **Connected Devices** presents a list of devices that are currently connected to the Router. Below that, the screen is divided into three columns: **Wi-Fi** on the left, **System Settings** in the middle, and **Parental controls** and **Help** on the right.

### 1. General information icons

This section displays four icons to indicate (from left to right) 4G signal strength, carrier information, data transfer direction, and battery life.

Note: The red cross on the battery icon indicates that battery level is below 25%, or no battery is inserted.

### 2. Drop-down menu

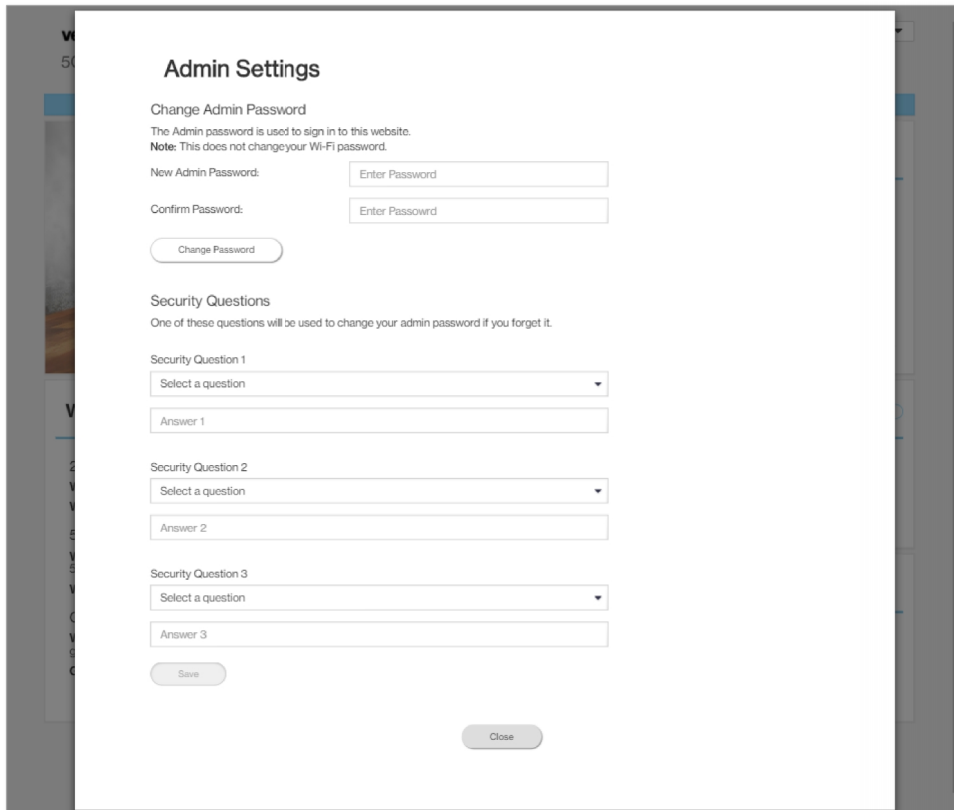
The drop-down menu includes selections such as **Admin Settings**, **My Verizon**, **Restart 5G Home Router**, and **Sign Out**.

### Admin Settings

The Change Admin Password section enables you to change the Admin password that is used to sign in to the Router's administration website. Type the admin password in the New Admin password field, then type the admin password again in the Admin password confirmation field. Click **Change Password** to apply the settings.

In the Security Questions section, you can choose three security questions then enter the answer for each question. If a user forgets his/her admin password, one of the questions will be used to change the admin password. Click **Save** to save your

changes. Click **Close** to close the Admin Settings window.



The screenshot shows a web interface titled "Admin Settings". It has two main sections: "Change Admin Password" and "Security Questions".

**Change Admin Password:** This section includes a note: "The Admin password is used to sign in to this website. Note: This does not change your Wi-Fi password." Below this are two input fields: "New Admin Password:" and "Confirm Password:", each with a placeholder "Enter Password". A "Change Password" button is located below these fields.

**Security Questions:** This section includes a note: "One of these questions will be used to change your admin password if you forget it." It contains three sets of questions, each with a dropdown menu for "Select a question" and a text input field for the answer (labeled "Answer 1", "Answer 2", and "Answer 3" respectively). A "Save" button is located below the third question set.

At the bottom center of the window is a "Close" button.

### My Verizon

You will be directed to My Verizon, where you can manage your account online. With My Verizon, you can also pay your bill, check your usage, swap SIM cards, and view your order status.

### Restart 5G Home Router

To restart the Router, click the drop-down arrow and select **Restart 5G Home Router**. A window will appear on the screen. Click **Restart** to restart the Router.

### Sign Out

Click **Sign Out** to sign out from the Router.

### 3. Connected Devices

This section displays information of connected devices, including the connection type, device name, MAC address, and whether the device is restricted from connecting to the Router.

### 4. Wi-Fi

This section displays the current network status, the Wi-Fi name (SSID), and the Wi-Fi password of different network connections, including 2.4 GHz Wi-Fi, 5 GHz Wi-Fi, and the Guest Wi-Fi.

### 5. System Settings

This section displays the name, manufacturer, and the firmware version of the device. You can also check here for software updates.

6. Parental Controls

Parental Controls enable you to block certain websites by entering their web addresses.

7. Help

Click on the link provided here to access the Verizon Wireless website, where you can find the support and the resources you need.

## Chapter 3

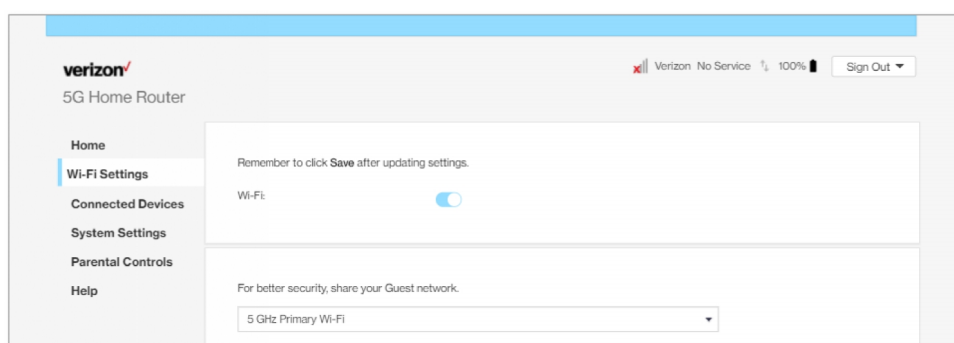
# Setting up a Wireless Network

Click the arrow “>” on the bottom right side of the **Wi-Fi** column to enable or disable the 5 GHz Wi-Fi, 2.4 GHz Wi-Fi, or Guest Network.

---

### 3.1 Wireless Status

There are two ways to change Wi-Fi status. The first is to slide the **Wi-Fi** switch in the **Wi-Fi** column to the right. The switch will turn blue when Wi-Fi is on. The second is to click the arrow “>” on the bottom right side of the **Wi-Fi** column. The Wi-Fi page will appear. Slide the **Wi-Fi** switch to the right. You will know that Wi-Fi is turned on when the switch turns blue. To turn off Wi-Fi, slide the switch to the left. Grey indicates that Wi-Fi is now disabled.



The drop-down menu in the middle of the screen enables you to select the 5 GHz Wi-Fi or 2.4 GHz Wi-Fi to view and change related settings.



## 3.2 5 GHz Wi-Fi

Slide the **Enable 5 GHz Wi-Fi** switch to the right. The switch turns blue to indicate that the selected Wi-Fi is turned on. To turn off the Wi-Fi, slide the switch to the left. If 5 GHz Wi-Fi is not turned on, the Guest Wi-Fi on 5 GHz will not work.

For better security, share your Guest network.

5 GHz Primary Wi-Fi

### 5 GHz Primary Wi-Fi

Enable 5 GHz Wi-Fi

Wi-Fi name (SSID): Verizon-LRV5-CIC4-5g

Password: .....

New Password: Password

Confirm Password: Password

Note: Password must be 8-28 characters and is case sensitive. Changing your Wi-Fi name or Wi-Fi password may cause your devices to lose their connection to your primary network.

Broadcast Wi-Fi Name (SSID)

Wi-Fi network encryption: WPA2-Personal

Max Wi-Fi devices 5 GHz: 128

Channel: Auto


Bandwidth: Auto

5 GHz Primary Wi-Fi Protected Setup (WPS):

### Wi-Fi name (SSID)

The Wi-Fi name (SSID) is the name of the wireless network broadcasting from this system. In order for devices to connect to the local network over a wireless link, they must select this network name from the list of detected wireless networks in the area.

### Password

Specify a password for your wireless network. Click the  icon to display the selected password for the SSID.

### New Password

Enter a new password here for the SSID.

### Confirm Password

Type the new password here.

Note: Passwords must be 8–28 characters long and are case sensitive. (If the encryption type is WEP-64, the password must be exactly 10 hex digits ([0–9], [a–f], or [A–F]). Changing your Wi-Fi password may cause your devices to lose their connection to your Wi-Fi. Leave empty if you don't want to make a change.

### Broadcast Wi-Fi Name (SSID)

Check the box if you want to broadcast the SSID. The SSID will be displayed when you search for available networks.

Note: If you disable SSID broadcasting by unchecking this check box, WPS will also

be disabled.

#### Wi-Fi network encryption

Select one security method from the drop-down menu. The encryption types include None, WEP-64, WPA2-Personal, WPA-WPA2-Personal.

#### Max Wi-Fi devices 5 GHz

The maximum number of Wi-Fi clients allowed on the Router using 5 GHz Wi-Fi. The highest value for this field is 128.

#### Channel

This specifies the frequency the radio uses to transmit wireless frames. Select a channel from the list of channels or choose **Auto** to allow the system to determine the best channel to use.

#### Bandwidth

Specify the bandwidth for each channel. Select Auto to allow the system to determine the optimal bandwidth.

#### 5 GHz Primary Wi-Fi Protected Setup (WPS)

WPS allows rapid wireless connection between the Router and other WPS-compatible devices. Click on the **WPS** button to turn on the WPS function.

### 3.3 2.4 GHz Wi-Fi

Slide the switch to the right. The switch turns blue to indicate that the selected Wi-Fi is turned on. To turn off the Wi-Fi, slide the switch to the left. If the 2.4 GHz Wi-Fi is not turned on, the Guest Wi-Fi on 2.4 GHz will not work.

For better security, share your Guest network.

2.4 GHz Primary Wi-Fi

2.4 GHz Primary Wi-Fi

Enable 2.4 GHz Wi-Fi

Wi-Fi name (SSID): Verizon-LRV5-CIC4

Password: \*\*\*\*\*

New Password: Password

Confirm Password: Password

Note: Password must be 8-28 characters and is case sensitive. Changing your Wi-Fi name or Wi-Fi password may cause your devices to lose their connection to your primary network.

Broadcast Wi-Fi Name (SSID)

Wi-Fi network encryption: WPA2-Personal

Max Wi-Fi devices 2.4 GHz: 128

Channel: Auto


Bandwidth: Auto

2.4 GHz Primary Wi-Fi Protected Setup (WPS) WPS

#### Wi-Fi name (SSID)

The Wi-Fi name (SSID) is the name of the wireless network broadcasting from this system. In order for devices to connect to the local network over a wireless link, they must select this network name from the list of detected wireless networks in the area.

#### Password

Specify a password for your wireless network. Click the  icon to display the selected password for the SSID.

#### New Password

Enter a new password here for the SSID.

#### Confirm Password

Type the new password here.

Note: Passwords must be 8–28 characters long and are case sensitive. (If the encryption type is WEP-64, the password must be exactly 10 hex digits ([0–9], [a–f], or [A–F]). Changing your Wi-Fi password may cause your devices to lose their connection to your Wi-Fi. Leave empty if you don't want to make a change.

#### Broadcast Wi-Fi Name (SSID)

Check the box if you want to broadcast the SSID. The SSID will be displayed when you search for available networks.

#### Wi-Fi network encryption

Select one security method from the drop-down menu.

#### Max Wi-Fi devices 2.4 GHz

The maximum number of Wi-Fi clients allowed on the Router using 2.4 GHz Wi-Fi. The highest value for this field is 128.

#### Channel

This specifies the frequency the radio uses to transmit wireless frames. Select a channel from the list of channels or choose **Auto** to allow the system to determine the best channel to use.

#### Bandwidth

Specify the bandwidth for each channel. Select Auto to allow the system to determine the optimal bandwidth.

#### 2.4 GHz Primary Wi-Fi Protected Setup (WPS)

WPS allows rapid wireless connection between the Router and other WPS-compatible devices. Click on the **WPS** button to turn on the WPS function.

### 3.4 Guest Wi-Fi

Slide the **Enable Guest Wi-Fi** switch to the right. The switch will be blue when the guest network is enabled.

Guest Wi-Fi

Enable Guest Wi-Fi:

Wi-Fi name (SSID): Verizon-LRV5-547C-guest

Password: .....

New Password: Password

Confirm Password: Password

Note: Password must be 8-28 characters and is case sensitive. Changing your Wi-Fi name or Wi-Fi password may cause your devices to lose their connection to your primary network.

Broadcast Wi-Fi Name (SSID)

Wi-Fi network encryption: WPA2-Personal

Band: Auto

Max Wi-Fi devices 2.4 GHz: 128


Max Wi-Fi devices 5 GHz: 128

Guest Wi-Fi Protected Setup (WPS): WPS

#### Wi-Fi name (SSID)

The Wi-Fi name (SSID) is the name of the wireless network broadcasting from this system. In order for devices to connect to the local network over a wireless link, they must select this network name from the list of detected wireless networks in the area.

#### Password

Specify a password for your wireless network. Click the  icon to display the selected password for the SSID.

#### New Password

Enter a new password here for the SSID.

#### Confirm Password

Type the new password here.

Note: Passwords must be 8–28 characters long and are case sensitive. (If the encryption type is WEP-64, the password must be exactly 10 hex digits ([0–9], [a–f], or [A–F]). Changing your Wi-Fi password may cause your devices to lose their connection to your Wi-Fi. Leave empty if you don't want to make a change.

#### Broadcast Wi-Fi Name (SSID)

Check the box if you want to broadcast the SSID. The SSID will be displayed when you search for available networks.

#### Wi-Fi network encryption

Select one security method from the drop-down menu.

#### Band

Select the band to be used.

Max Wi-Fi devices 2.4 GHz

The maximum number of Wi-Fi clients allowed on the Router using 2.4 GHz Guest Wi-Fi. The highest value for this field is 128.

Max Wi-Fi devices 5 GHz

The maximum number of Wi-Fi clients allowed on the Router using 5 GHz Guest Wi-Fi. The highest value for this field is 128.

Guest Wi-Fi Protected Setup (WPS)

WPS allows rapid wireless connection between the Router and other WPS-compatible devices. Click on the **WPS** button to turn on the WPS function.

Note: WPS will become inaccessible if the Broadcast Wi-Fi Name (SSID) feature is not activated.

Click **Save** to save your changes, or click **Cancel** to discard any changes you made.

Note: The 2.4 GHz Guest Wi-Fi only works when the matching 2.4 GHz Wi-Fi is activated. The 5GHz Guest Wi-Fi only works when the matching 5 GHz Wi-Fi is activated.

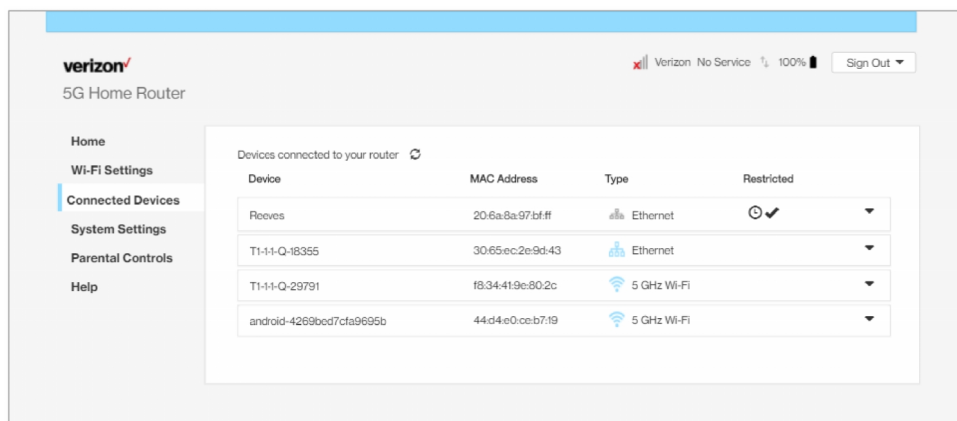
# Chapter 4

## Connected Devices

This section displays information of LAN connected devices, including the connection type, IP address, host name, MAC address, and whether the connected devices are restricted or not.

### 4.1 Devices connected to your router

The function presents a list of devices that are currently connected to your router as well as the information of these devices, including the names, MAC addresses, connection types, and whether the devices are restricted or not.



#### Device

The name of each device that has been connected/is currently connected to the Router is displayed here.

#### MAC Address

The MAC Address of each device that is connected to the Router is displayed here.

#### Type

This section shows the type of connection each device uses to connect to the Router.

#### Restricted

This section displays devices which are blocked from connecting to the Router as well as the settings of the restriction. The ✓ icon indicates that the selected device is blocked permanently. The 🕒 icon indicates that the device is only restricted during the specified periods of time.

The **Delete Device** feature enables you to select and remove devices which have connected to the Router. Once removed, the computer/device will not be displayed on this page.

The **Block Device** switch allows you to block or allow computers or devices from establishing a connection to the Router. To block a device, first click on its name, then

slide the **Block Device** switch to the right. The switch will be blue when the feature is enabled.

## 4.2 Restrictions

You can specify a period of time during which the selected device will be blocked from connecting to the Router. To add rules, click **Add Schedule**.

### Schedule Name

Type the name for the schedule in this field.

### Time Restrictions

Specify the date and time period when you wish the selected devices to be blocked. Slide the **All Day** switch to the right if you want to block a selected device for a whole day. Click **Save** to apply the changes you made.

The screenshot displays the Verizon 5G Home Router management interface. The top navigation bar includes the Verizon logo, signal strength indicators, service status (Verizon No Service), and a 'Sign Out' button. The left sidebar contains navigation options: Home, Wi-Fi Settings, Connected Devices (highlighted), System Settings, Parental Controls, and Help.

The main content area is divided into two sections:

- Devices connected to your router:** A table with columns for Device, MAC Address, Type, and Restricted. It lists two Ethernet devices: T1-1-Q-29791 (MAC: a8:1e:84:d7:b3:2d) and T1-1-Q-18355 (MAC: 30:65:ec:2e:9d:43). Below the table are controls for 'Delete Device' and a 'Block Device' toggle switch.
- Restrictions:** A section with a text description: 'Selected device will not be able to connect to your router during scheduled times.' It features an 'Add Schedule' button and a table of active schedules:

Device	MAC Address	Type	Restricted
T1-1-Q-18355	30:65:ec:2e:9d:43	Ethernet	▼
T1-1-Q-29791	f8:34:41:9e:80:2c	5 GHz Wi-Fi	▼
android-4269bed7cfa9695b	44:d4:e0:cc:b7:19	5 GHz Wi-Fi	▼



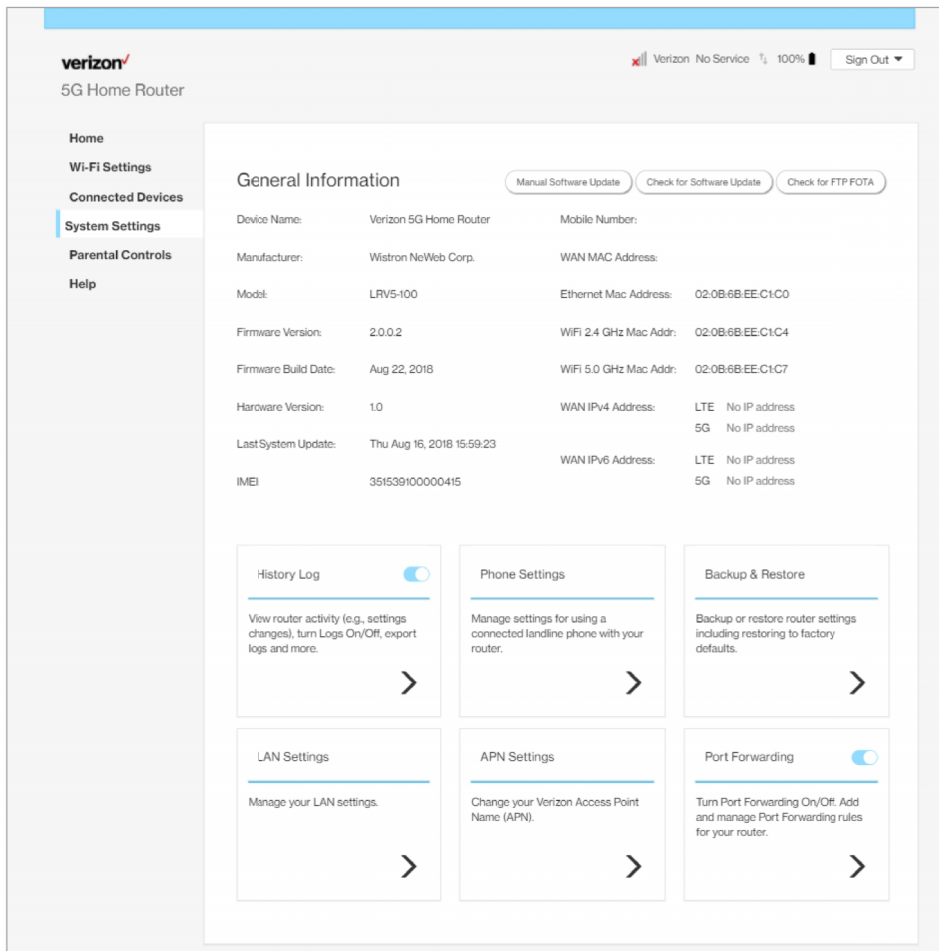
# Chapter 5

## Configuring System Settings

You can select different settings for the system here.

### 5.1 General Information

The **General Information** page in **System Settings** provides device information on the Router, including the device name, IMEI, model, and more.



To access the **General Information** page, click **System Settings** on the front page of the administration website.

#### Manual Software Update

This option enables you to update the software on your Router. Click **Manual Software Update** to update the Router's software.

#### Check for Software Update

Click **Check for Software Update** to see if there are software updates available.

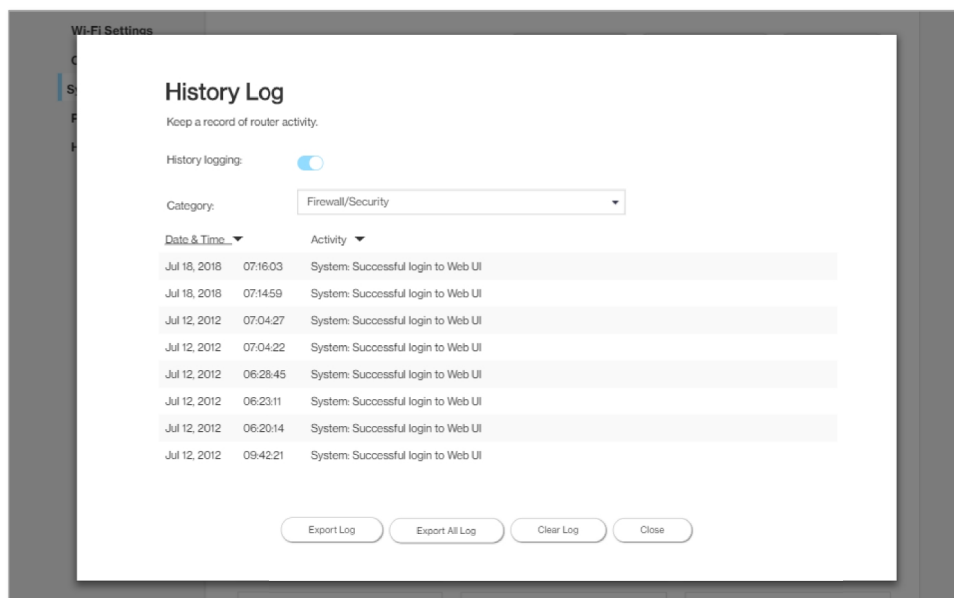
### Check for FTP FOTA

FOTA (Firmware over the Air) is a method that enables firmware update online. Click **Check for FTP FOTA** to check if the firmware is the latest version.

At the bottom of the **General Information** page are six panels: **History Log, Phone Settings, Backup & Restore, LAN Settings, APN Settings, and Port Forwarding.**

## 5.2 History Log

The **History Log** page provides various activity records of your Router. To access this page, click **History Log** on the General Information page.



### History Logging

Use this switch to turn the History Logging function on or off.

### Category

Use the drop-down menu to select the type of log you wish to export, then click the **Export Log** button to export the log. Select **Export All Log** to export all types of logs. To erase all log history, click **Clear Log**. Click **Close** to close the window.

### Date & Time

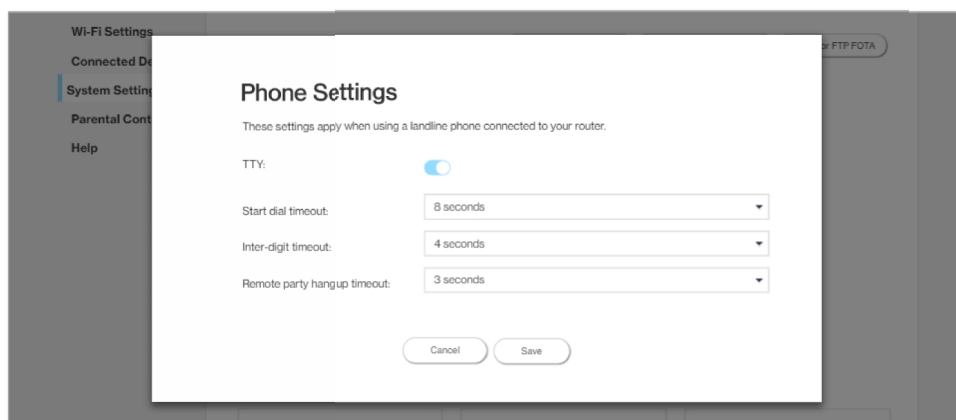
Click on Date & Time to sort the history log in chronological order.

### Activity

Click on Activity to sort the history log by Activity.

## 5.3 Phone Settings

The **Phone Settings** page covers settings for a landline phone connected to your Router. To access this page, click **Phone Settings** on the **General Information** page.



### TTY

When the TTY (teletypewriter) setting is enabled, you can use your phone with a TTY device to assist with hearing impairments.

### Start dial timeout

Period that the dial tone is available after the phone is lifted off the hook.

### Inter-digit timeout

Maximum interval between digits when dialing.

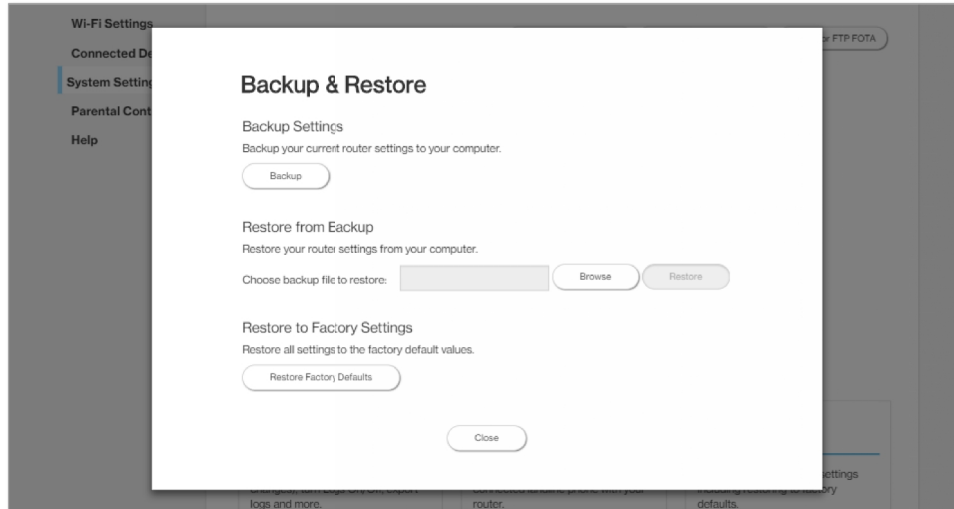
### Remote party hang up timeout

Period of silence following remote hang-up.

Click **Save** to save your preferred phone settings, or click **Cancel** to discard any changes you made.

## 5.4 Backup & Restore

The **Backup & Restore** page covers functions for backing up/restoring the settings on your Router and resetting it to factory settings. To access this page, click **Backup & Restore** on the **General Information** page.



### Backup Settings

Click the **Backup** button to backup your current Router settings to your computer.

### Restore from Backup

Click **Browse** and select the file on your computer which contains the backup settings you wish to restore, then click **Restore** to restore the settings.

### Restore to Factory Settings

Click **Restore Factory Defaults** and wait for the progress bar to complete in order to reset your Router to factory settings.

Click **Close** to close this window.

## 5.5 LAN Settings

The **LAN Settings** page includes settings to configure advanced LAN settings (e.g., IP address, Subnet mask, DHCP, etc.) for your Router. To access this page, click **LAN Settings** on the **General Information** page.

The screenshot shows the 'LAN Settings' configuration page. Under 'LAN Configuration', the Router IP Address is 192.168.0.1 and the Subnet Mask is 255.255.255.0. The DNS Server is set to Automatic. A text field for multiple DNS servers contains 192.168.0.1. The DHCP section is enabled, with Network Address 192.168.0.1, DHCP Start Address 192.168.0.2, DHCP End Address 192.168.0.254, and Lease Time 1 Days. Buttons for Cancel and Save are at the bottom.

### LAN Configuration

In this section, enter the desired info in the following fields:

#### Router IP address

Specify a range of IP addresses the Router may assign to devices. The default LAN IP configuration is 192.168.0.1.

#### Subnet Mask

The subnet mask along with the previously configured IP address defines the network. The default value for subnet mask is 255.255.255.0.

#### DNS Server

Use this function to toggle whether the DNS server is set automatically or manually.

#### IP addresses for multiple DNS servers

Enter the IP addresses for multiple DNS servers in this field (separate each IP address with a comma.)

### **DHCP**

DHCP assigns LAN IP addresses for connected devices. You can specify the range of IP addresses the Router may assign to devices. Click the **DHCP** switch to turn the DHCP function on or off. You can also enter the desired information in the following fields:

#### DHCP Start Address

Specify the address that starts the range for the pool of IP addresses in the same subnet as the router.

DHCP End Address

Specify the address that ends the range for the pool of IP addresses in the same subnet as the router.

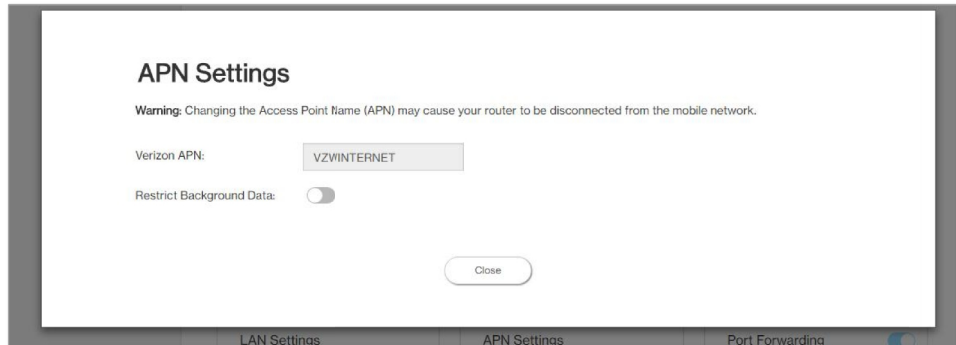
Lease Time

You can specify a period of time after which an assigned IP address will be retrieved from devices.

Click **Save** to save your preferred LAN settings, or click **Cancel** to discard any changes you made.

## 5.6 APN Settings

The **APN Settings** page enables you to configure the Access Point Name (APN) for your Router. To access this page, click **APN Settings** on the **General Information** page.



### Verizon APN

This field shows the Router's APN, which is not editable.

### Restrict Background Data

This feature will be automatically enabled if the current data usage exceeds the threshold defined by the user. Once enabled, data transfer in the background will be stopped.



## 5.7 Port Forwarding

Port Forwarding can be used to open certain ports of a device to communicate with an Internet service. To turn on the Port Forwarding, slide the **Port Forwarding** switch on the bottom right of the **General Information** page to the right. The switch turns blue to indicate that the function is turned on. To turn off this function, slide the switch to the left. To access this page, click **Port Forwarding** on the **General Information** page.

Application	Port From	Protocol	IP Address	Port To	Enabled	Remove
Rule 01	8080	TCP	192.168.0.150	8899	<input checked="" type="checkbox"/>	x

From the **Port Forwarding** page, enter the appropriate forwarding options listed on the page, then click **Add** to save your changes, or click **Cancel** to discard any changes you made. Click **Close** to close this page. The options include:

### **Add Rules**

#### Rule Name

Type the name of the service for which the port forwarding rule has been created.

#### From Port

Type the value range of the WAN port from which you want to forward packets.

#### Protocol

Choose the protocol to be used for port forwarding.

#### IP Address

The local server's IP address.

#### To Port

Type the value range of the LAN port to which you want to receive the forwarded packets.

### **Configured Ports**

This table displays the ports that have been configured.

Application

The created rule name will be displayed here.

Port From

This shows the value of the start port.

Protocol

This shows the protocol selected for the corresponding port forwarding rule.

IP Address

This shows the local server's IP address.

Port To

This shows the value of the end port.

Enabled

The  icon indicates that the corresponding port forwarding rule has been enabled.

Remove

Click on the  icon to delete a port forwarding rule.

# Chapter 6

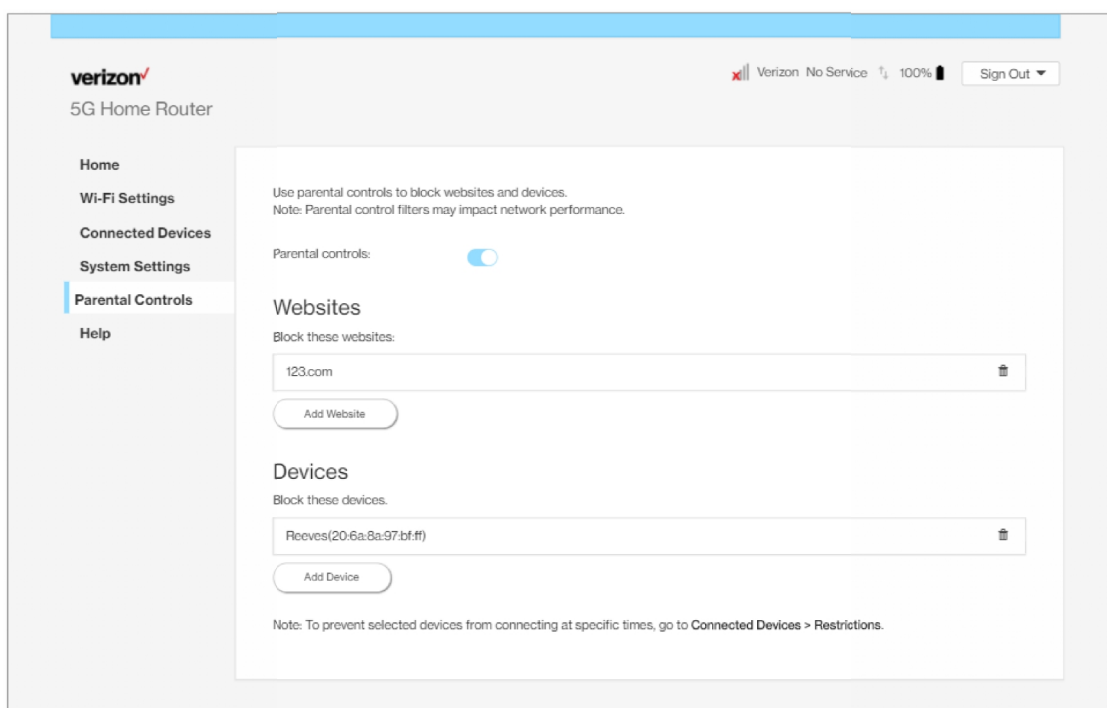
## Using Parental Controls

By creating Internet access policies, Parental Controls allow you to control and monitor Internet access.


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**Parental Controls** can be activated on the Home page by sliding the **Filters** switch in the Parental Controls column.

You can also enable or disable the function after you enter the **Parental Controls** page. Slide the **Parental controls** switch to the right. When the switch is blue, parental control of websites and devices is enabled. To turn off this function, slide the switch to the left.



### Websites

This function can be used to block computers or devices from accessing certain websites through the Router. The websites that have been blocked are displayed on the screen. To add a website to the block list, click **Add Website** and enter the website in the input field. Click **Add** to save your changes, or click on the  icon to remove the selected website from the block list.



### Devices

To add a device to the block list, click **Add Device**. A drop-down list will display the

devices that are currently connected to the Router and their MAC address. Select the device that you want to block, then click **Include**. The devices that appear on this list will be not be able to access ALL the websites listed in the Websites section.

The screenshot shows a web interface titled "Devices" with the instruction "Block these devices." Below this is a list of devices. One device is listed: "Reeves(20:6a:8a:97:bf:f1)". To the right of the device name is a trash icon. Below the list is a "Select device..." dropdown menu and a "Block device" button.

## Chapter 7 Help

Click on the link provided in this chapter to access the Verizon Wireless website, where you can find the support and the resources you need.

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Verizon Wireless: Support

<https://www.verizonwireless.com/support/5g/home/>

## Chapter 8 Troubleshooting

This chapter contains a list of issues frequently encountered by users. Possible solutions and techniques to address the issues are also provided.

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### *How do I remove the battery cover and put the cover back on after I replace the battery?*



Step 1:  
Press down on the battery cover.



Step 2:  
Slide the cover in the direction of the red arrows and pull the cover out.



Step 3:  
Install the battery.



Step 4:  
Place the battery cover back on top of the battery compartment as indicated in the image.



Step 5:  
Slide the battery cover back in the direction as indicated by the arrows.

### ***How do I restore the Router's defaults settings?***

There are two ways to restore the Router's default settings:

- A) Use the tip of a ballpoint pen or a straightened paperclip to depress the "Reset" button on the back of the Router for at least ten seconds.
- B) Go to the **System Settings** column on the Home screen and access the **Backup & Restore** section. Click **Restore Factory Defaults** and wait for the progress bar to complete in order to reset your Router to factory settings.

### ***How do I change the password on the Router's administration website?***

From the Router's Home screen, access the **Admin Settings** on the drop-down menu on the top right of the administration website's **Home** page.

### ***Can I use an 802.11b wireless card to connect to the Router?***

Yes, the Router can interface with 802.11b cards or 802.11g cards. The 802.11g standard is backward compatible with the 802.11b standard. The Router can be setup to handle just "g" wireless cards, just "b" wireless cards, or both.

### ***I cannot access the Router's administration website. What should I do?***

Make sure the computer that is connected to the Router is set up to dynamically obtain an IP address.

# Appendix: Specifications

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## Product specifications

### Wi-Fi

2.4G 802.11b/g/n MIMO 2 × 2  
5G 802.11 a/n/ac MIMO 4 × 4  
5G 802.11 ac MIMO 4 × 4 (backhaul)  
2.4G/5G DBDC, WPS

### LTE

CAT 6 (Rel.10), Band 2/4/5/13, FDD  
Supports downlink inter and intra 2-Carrier Aggregation

### Memory

DDR3: 256 MB × 4  
NAND: eMMC 512 MB

### Embedded Antenna

2.4G/5G, GPS, LTE

## Mechanical Specifications

### LEDs

LEDs × 6 (amber and green)

### Ports/Interface

LAN (Gigabit Ethernet RJ-45 ports with LED) × 3  
WAN (Gigabit Ethernet RJ-45 port with LED) × 1  
RJ11 phone ports × 2 (Related features will be available soon)  
RJ31X alarm port × 1 (Related features will be available soon)  
Reset button × 1  
DC Jack × 1  
Power button × 1  
WPS button × 1  
SIM Socket x1

## Environmental

### Power

Router: 54V/40W & PSE: 54V/60W

### Operating Ambient Temperature

10°C to 40°C



Relative Humidity

8% to 95% non-condensing

Shipping and Storage Temperature

-20°C to 85°C

Shipping and Storage Relative Humidity

5% to 100%