

T-Mobile
HOME
INTERNET

User Guide



TM-RTL0102
LTE Wi-Fi Gateway



LTE Wi-Fi GATEWAY

Welcome

Your new T-Mobile LTE Wi-Fi Gateway is custom built for fast Wi-Fi with T-Mobile's LTE network that reaches further and faster than ever before. With easy-to-use Parental Controls and data-usage features to manage your family's connectivity—as well as dual-band Wi-Fi with QoS for smooth Web surfing, streaming, gaming and Wi-Fi calling—your wireless T-Mobile experience just got a whole lot better.



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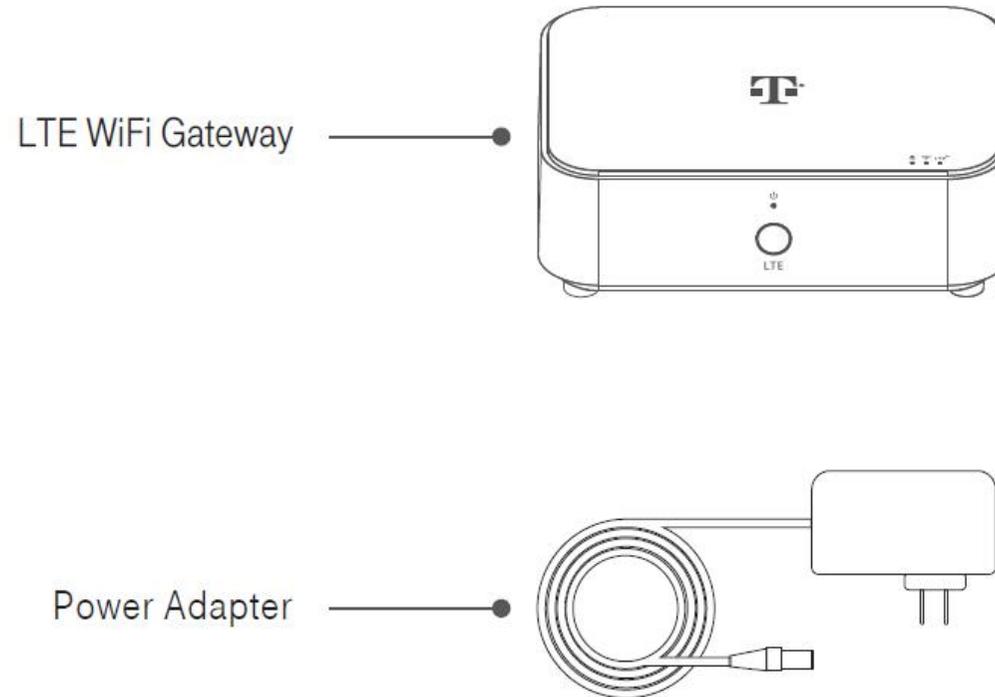
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1. What's in the box

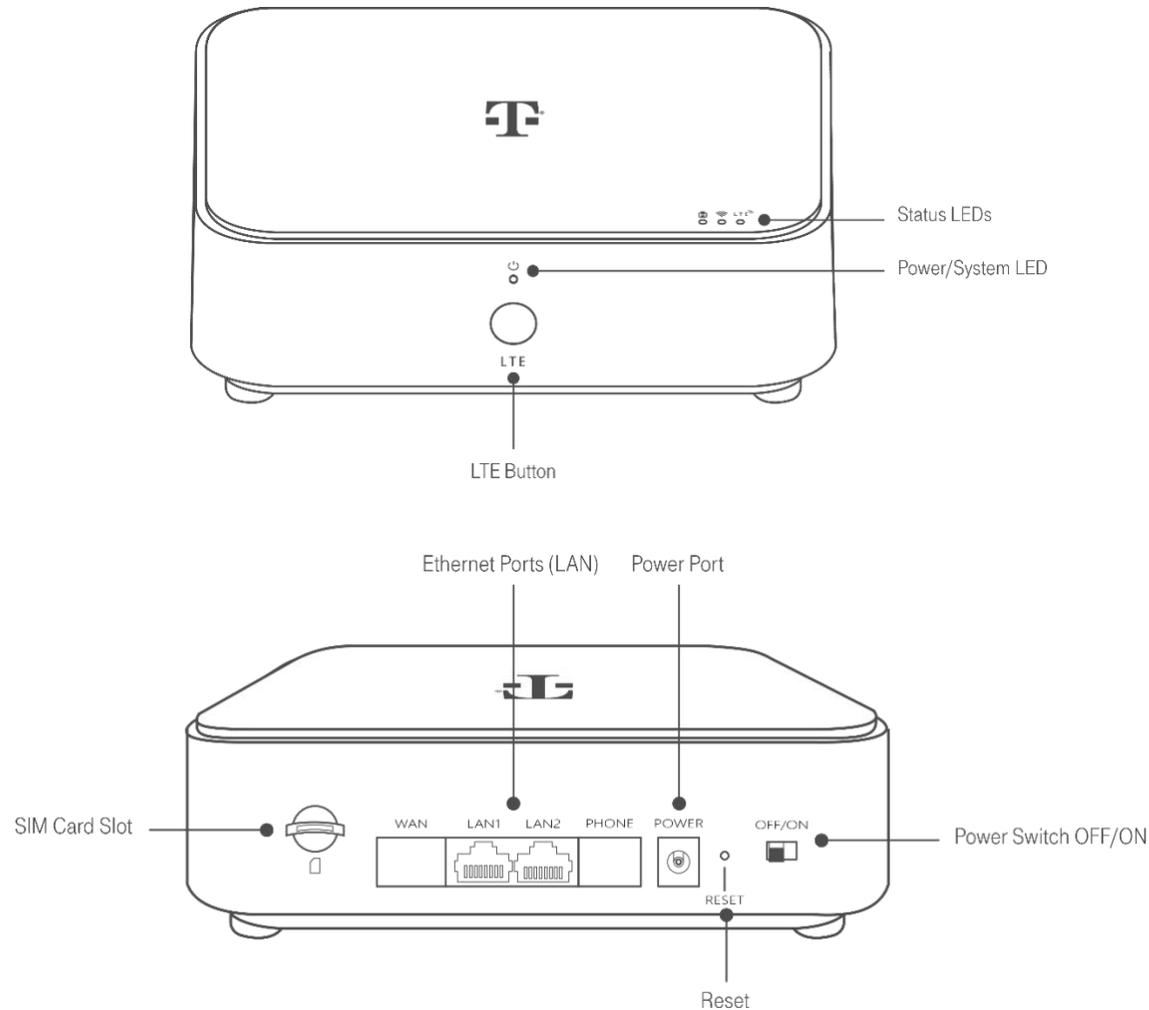
Contact T-Mobile if any item is missing or damaged.



Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at **1-844-275-9310**.

2. Getting to know your LTE Wi-Fi Gateway

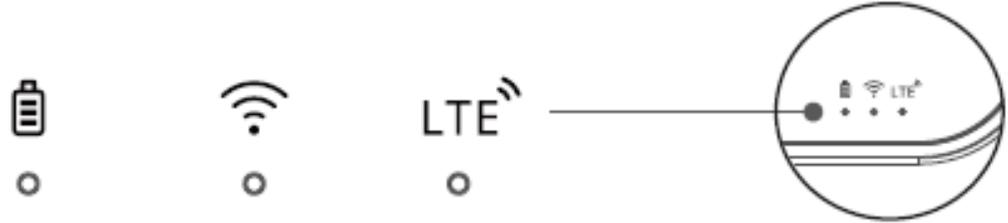
The Wi-Fi gateway includes a battery which can power the Wi-Fi gateway temporarily in case of emergency power loss.



Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at **1-844-275-9310**.

LEDs

The LEDs indicate the Wi-Fi gateway's power, connection and battery status.

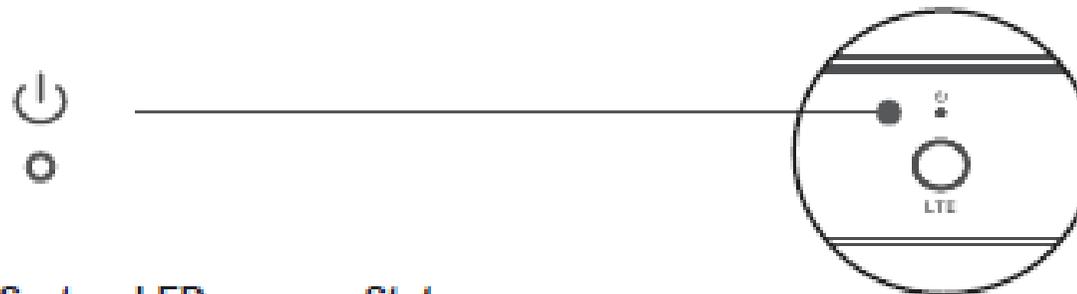


Battery (LED 1)	WiFi (LED 2)	LTE (LED 3)	Power/System LED	Status
				Not Powered
			Flashing 	Booting
				Error
				Ready
				LTE Ready
				LTE Error
				WiFi On
				WiFi Off
				WiFi Error
				50-100% Battery
				10-50% Battery
				Low Battery <10%
				No Battery

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LTE Button

Press the LTE button on the front of the Wi-Fi gateway to display the LTE signal strength.

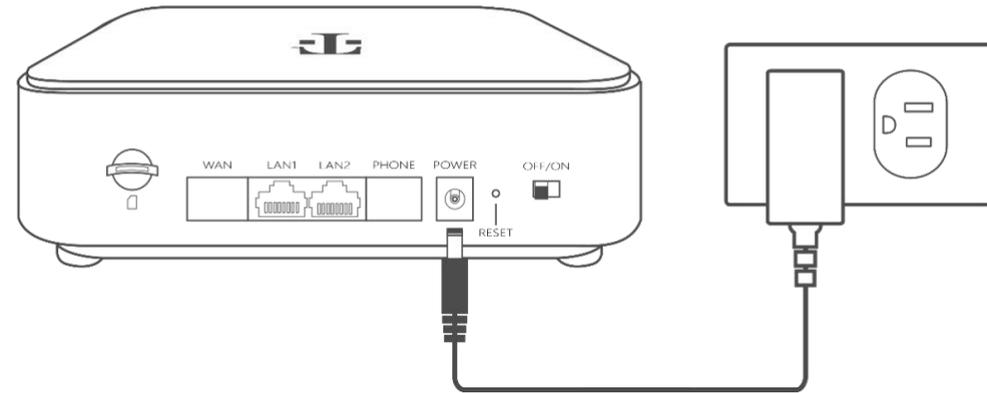


Power/System LED	Status
Flashing  (5 sec)	Excellent LTE Signal
Flashing  (5 sec)	Good LTE Signal
Flashing  (5 sec)	Weak LTE Signal
	No Service

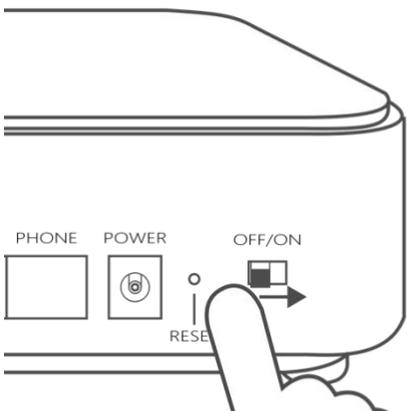
3. Installation

If you are replacing an existing router, disconnect it from your network first.

1. Plug the Wi-Fi gateway into a power outlet using the included power adapter.



2. Switch the Wi-Fi gateway's power switch on, then head to [4. Configure your LTE Wi-Fi Gateway](#) to setup your Wi-Fi security.



3.1 Positioning your Wi-Fi gateway

For the best wireless signal transmission between the Wi-Fi gateway and your network devices:

- Place the Wi-Fi gateway in a central area.
- Keep the Wi-Fi gateway away from metal obstructions and away from direct sunlight.
- Keep the Wi-Fi gateway away from 802.11g or 20MHz only Wi-Fi devices, 2.4GHz computer peripherals, Bluetooth devices, cordless phones, transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal interference or loss.

3.2 Setup requirements

To configure your wireless network via computer, you need a computer that meets the following system requirements:

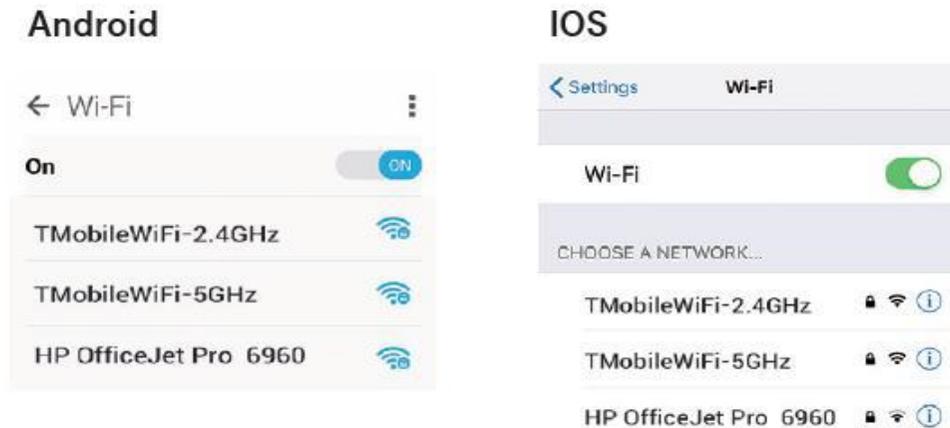
- Ethernet RJ-45 (LAN) port (10Base-T/100Base-TX/1000Base-TX)
- IEEE 802.11a/b/g/n/ac wireless capability
- An installed TCP/IP service
- Web browser such as Internet Explorer, Firefox, Safari, or Google Chrome

4. Configure your LTE Wi-Fi Gateway

You can configure your LTE Wi-Fi Gateway's network settings by using either your smartphone OR your computer.

4.1 Configure from your Smartphone (recommended)

1. On your smartphone, download the T-Mobile Home Internet app from the App Store (for iPhone) or Google Play (for Android)
2. In your smartphone settings, scan available Wi-Fi networks.



3. Select either of the T-Mobile networks named:

TMobileWiFi-2.4Ghz

or

TMobileWiFi-5Ghz

4. Enter the unique LTE Wi-Fi Gateway password found on the white sticker on the bottom of your LTE Wi-Fi Gateway
5. Open the T-Mobile Home Internet app, tap 'Manage my service' and follow the prompts

4.2 Configure from your computer

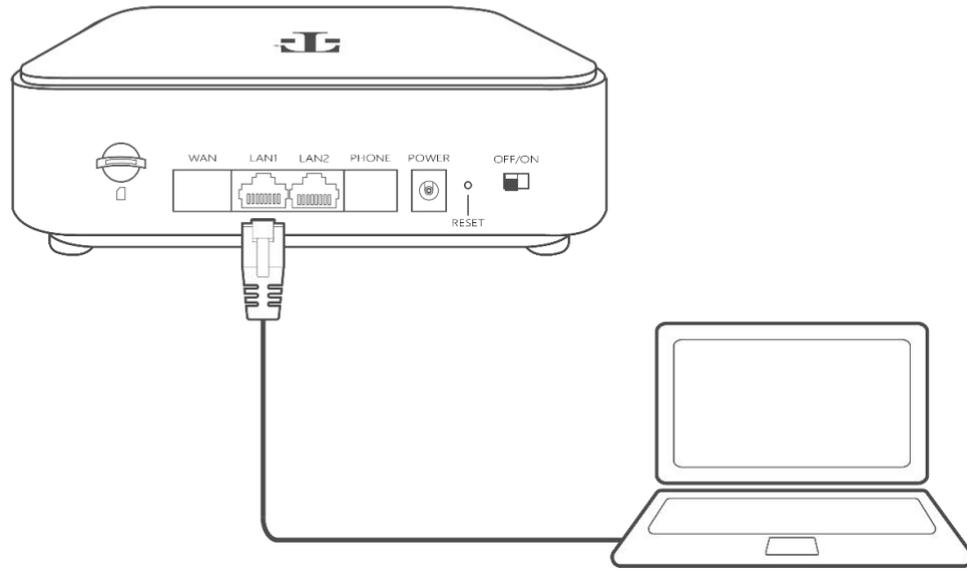
1. On your computer, scan available Wi-Fi networks.
2. Select either of the T-Mobile networks named:

TMobileWiFi-2.4Ghz

or

TMobileWiFi-5Ghz

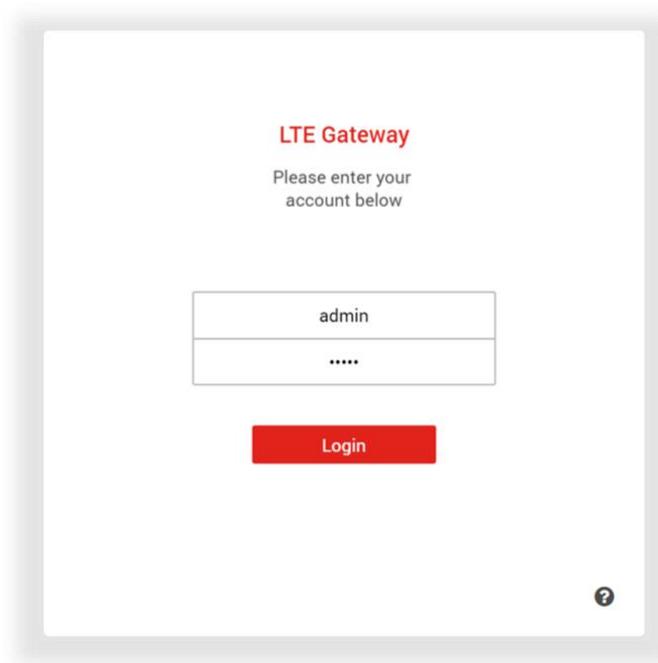
3. Enter the unique password found on the white sticker on the bottom of your LTE Wi-Fi Gateway.
4. If preferred, you can use an Ethernet cable to connect your computer to the Wi-Fi Gateway's LAN port for configuration.



Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at 1-844-275-9310.

Login to the Web User Interface

1. Open a web browser and enter the Wi-Fi gateway's default address <http://192.168.1.1> in the address bar.
2. Log in to the Web UI using the default username: **admin** and password: (Located on bottom of your LTE Wi-Fi Gateway)



3. Go to **Basic > Network > WiFi** to change your Wi-Fi password and **Expert > Device Settings > Administration** to change your Web UI login password, and remember to save your settings
4. Check **5. Basic Settings** and **6. Expert Settings** in this guide for more information.

5. Basic Settings

Your Wi-Fi gateway comes with an intuitive Web User Interface (Web UI) that allows you to easily setup its Basic & Expert features.

Menu

Select the **Basic** tab in the menu:



 **DashBoard**

 **Network**

 **Parental Control**

Save

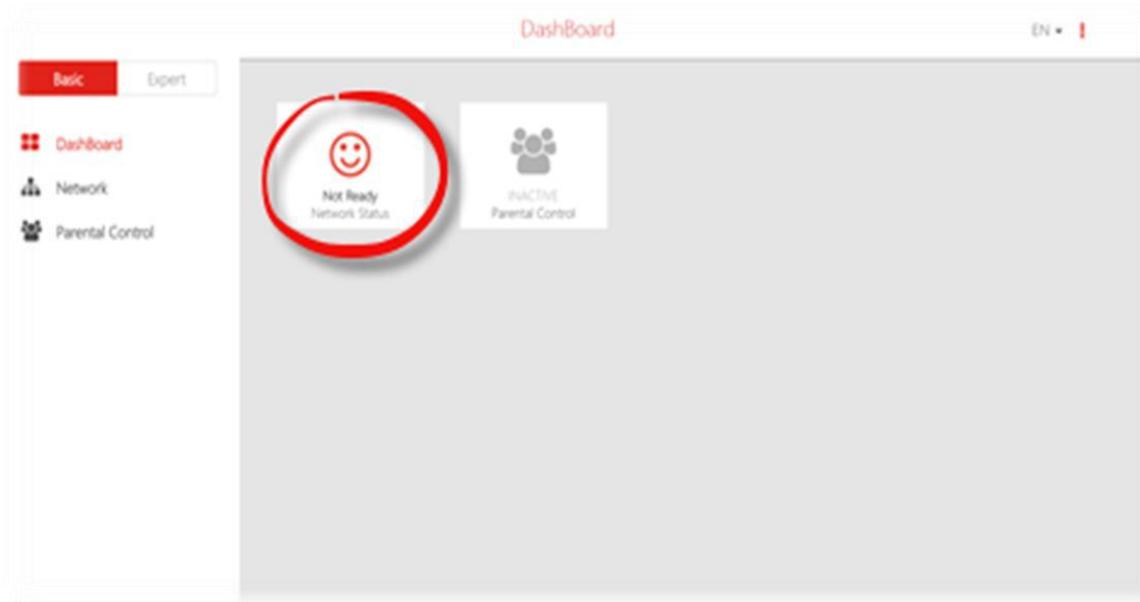
Remember to save your settings with the save button after making changes. The icon takes you back to the Dashboard.



5.1 Dashboard

Basic > Dashboard

The **Dashboard** shows a snapshot of your network status with quick links to key features of your Wi-Fi gateway.



Select any icon on the dashboard: **Network Status**, **Parental Control** to access more information and settings.

Network Status takes you to **Basic > Network > Status**

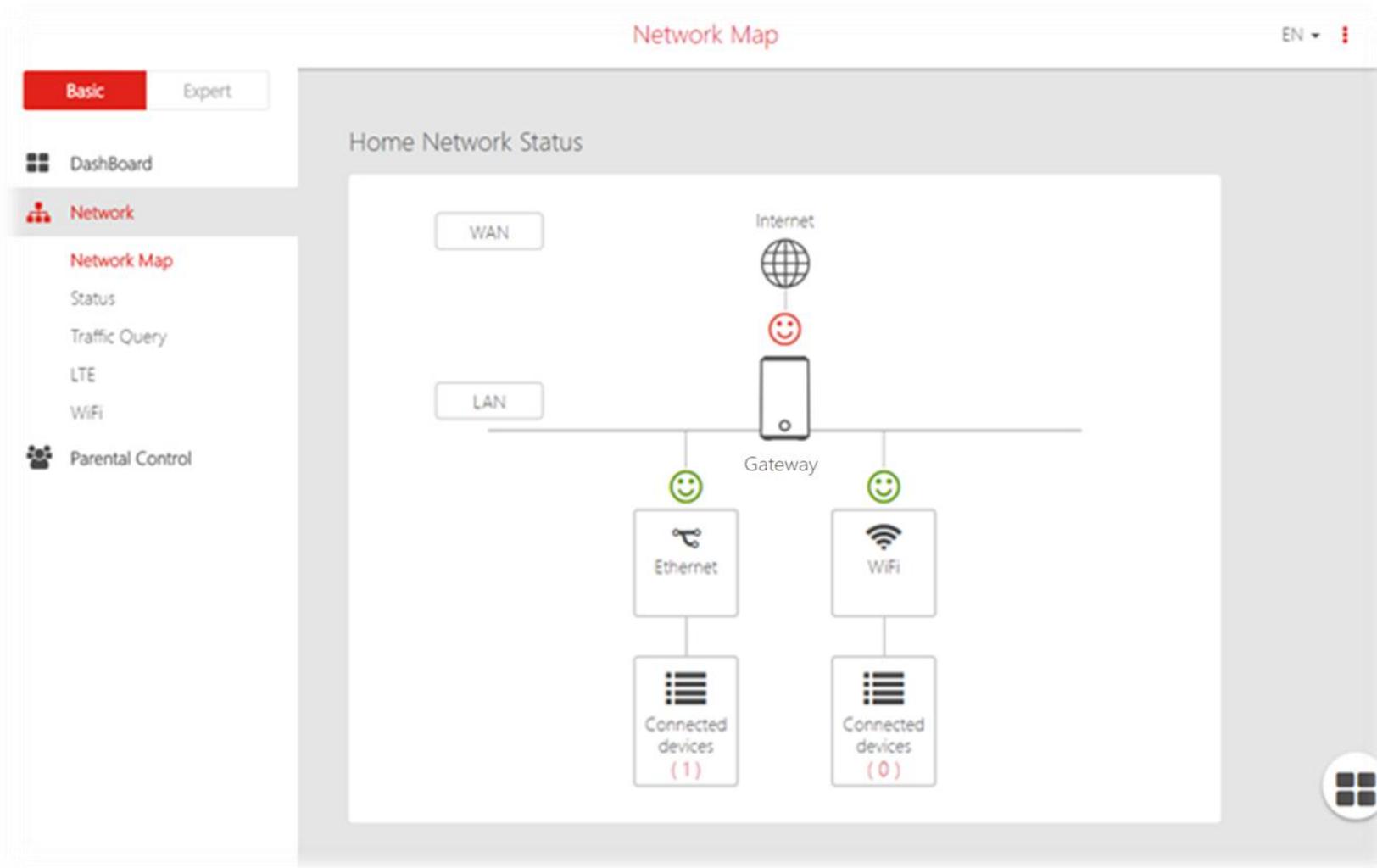
Parental Control takes you to **Basic > Network > Parental Control**

Network Status should display **All OK** to indicate a functioning LTE network. If you don't see this, check the Wi-Fi gateway's LEDs and refer to Troubleshooting to diagnose the problem.

5.2 Network

Basic > Network

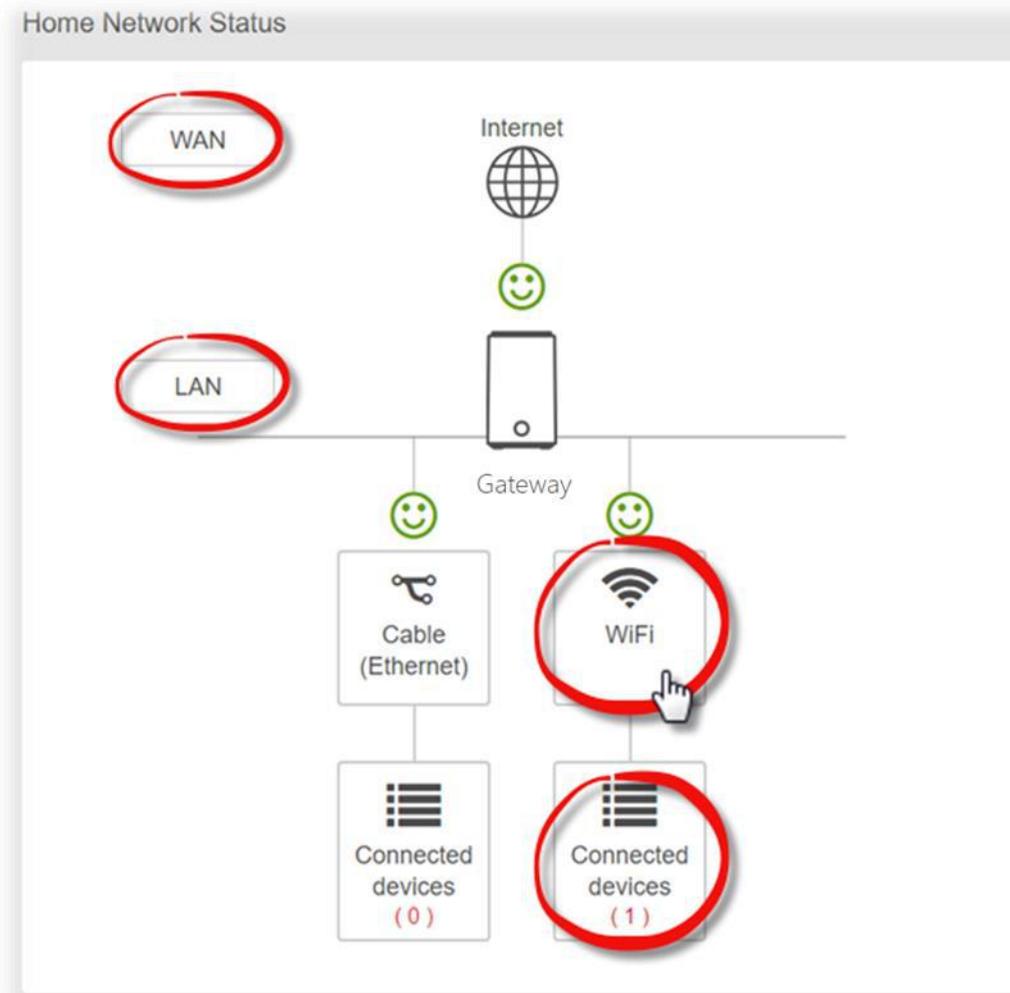
The **Network** menu provides quick links to the basic networking functions of your Wi-Fi gateway. When you select the **Network** menu, the **Network Map** page is displayed as below.



Network Map

Basic > Network > Network Map

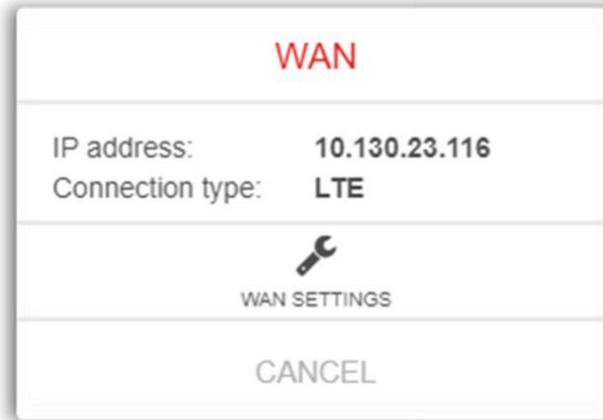
The network map provides a visual overview and status information of the network and devices on the network, with quick links to wireless security settings and client lists. It's important to check and configure security settings.



Select icons on the dashboard for more information and settings, as displayed below:

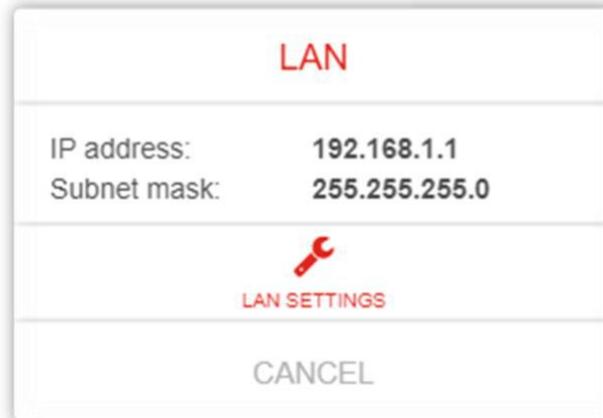
WAN

Displays the Wi-Fi gateway's Wide Area Network (WAN) IP Address and Connection Type (LTE).



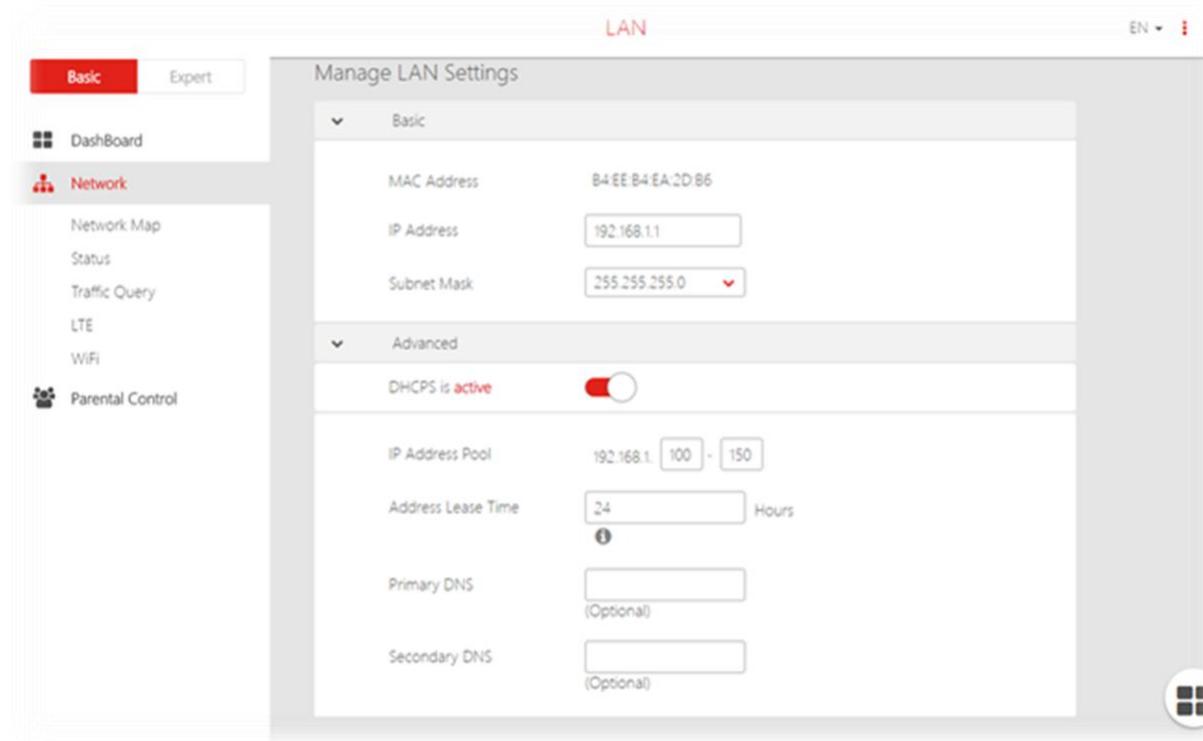
LAN

Displays the Wi-Fi gateway's Local Area Network (LAN) IP Address and Subnet Mask. Click LAN Settings to modify the settings.



LAN > LAN Settings

This page allows you to configure your Wi-Fi gateway on your Local Area Network (LAN). You can specify a static IP address for your Wi-Fi gateway, and configure your Wi-Fi gateway as a DHCP server to assign IP addresses to other devices on your LAN.



Basic	
MAC Address	Displays the MAC address of your Wi-Fi gateway. A MAC Address is a unique fixed identifier for any device on a network.
IP Address	Specify the IP address here. This IP address will be

	assigned to your Wi-Fi gateway and will replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is 255.255.255.0

Advanced	
DHCP is active/inactive	Toggle the switch to enable or disable DHCP server.
IP Address Pool	Enter the start and end IP address of the IP address range which your Wi-Fi gateway's DHCP server will assign to devices on the network.
Address Lease Time	Enter an address lease time in hours. IP addresses will be assigned for this period of time before being reassigned.
Primary DNS Address	Enter a primary DNS address.
Secondary DNS Address	Enter a secondary DNS address.

WiFi

Displays your Wi-Fi gateway's 2.4GHz & 5GHz network name (SSID) with switches to quickly enable or disable either Wi-Fi network. Click WiFi Settings to go to Network > WiFi Settings.



Connected Devices

Displays all devices (clients) connected to your Wi-Fi gateway, by Ethernet (LAN) or Wi-Fi (wireless) e.g. laptops, smartphones. The device name, MAC address and IP address is listed for each device.



Status

Basic > Network > Status

Network Status displays the status of the network across six categories: Internet v4, Internet v6, LTE, LAN, Wireless & System Information.

Information is listed in Network Status for reference as described below:

Internet v4

Displays IPv4 Wide Area Network WAN information about your Wi-Fi gateway's LTE connection. IPv4 is the default Internet protocol widely used across the Internet.

Internet v6

Displays IPv6 Wide Area Network WAN information about your Wi-Fi gateway's LTE connection. IPv6 is an alternative Internet protocol which is not yet widely supported. To setup IPv6 go to **Basic > Network > LTE**. Contact T-Mobile for more information about using IPv6.

LTE

Displays LTE information including signal strength. To edit LTE settings go to **Basic > Network > LTE**.

LAN

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

The screenshot shows a mobile interface titled "Information". It features a list of network categories, each with a dropdown arrow. The "Internet (v4)" category is expanded, showing a table of network details. Below it, other categories like "Internet (v6)", "LTE", "LAN", "Wireless 2.4G", "Wireless 5G", and "System Information" are listed with upward-pointing arrows.

Internet (v4)	
IP Address	10.92.148.170
Subnet Mask	255.255.255.252
Default Gateway	10.92.148.169
Primary DNS	61.31.233.1
Secondary DNS	168.95.1.1
Connection Type	LTE - Connected

- Internet (v6)
- LTE
- LAN
- Wireless 2.4G
- Wireless 5G
- System Information

Wireless 2.4GHz & 5GHz

Displays your Wi-Fi gateway's Wi-Fi information for both 2.4GHz & 5GHz frequencies. Includes network name (SSID) and radio & channel information. To edit these Wi-Fi settings go to **Expert > Network > WiFi Settings**.

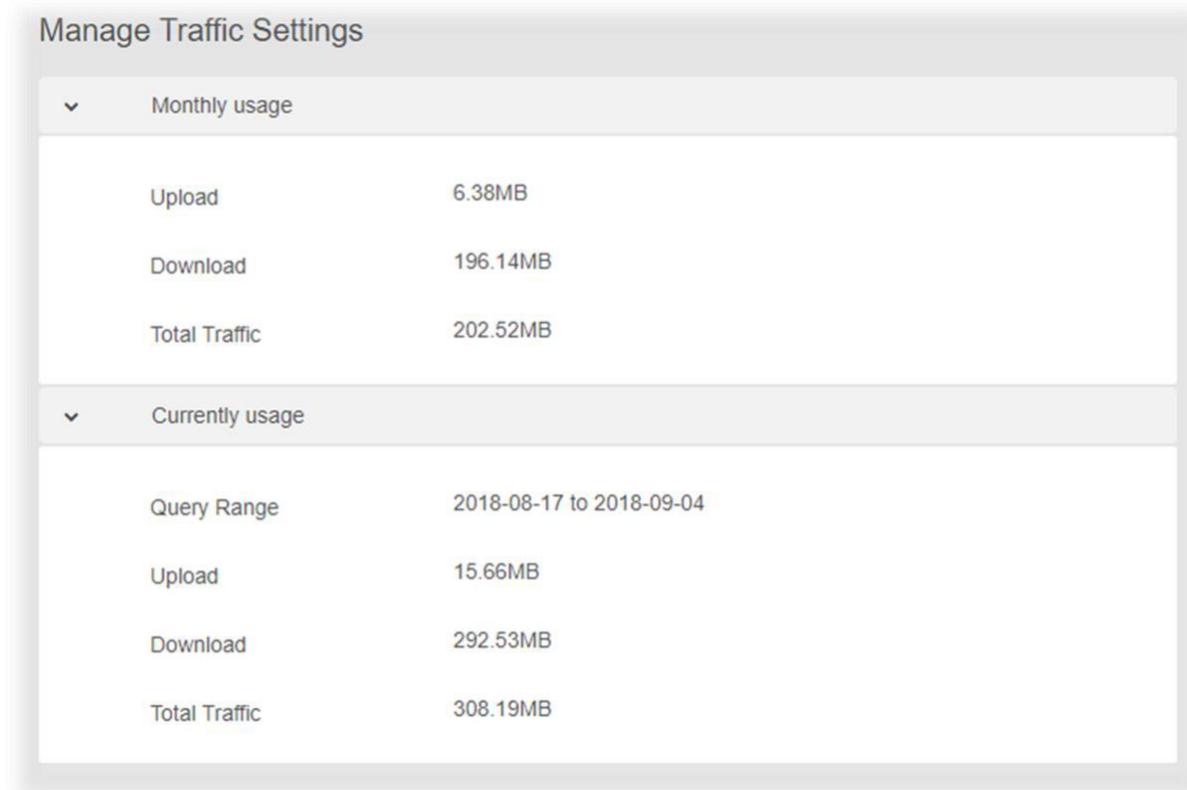
System Information

Displays system identifiers unique to your hardware.

Traffic Query

Basic > Network > Network Map

Traffic Query displays your network data usage, with upload, download and total traffic displayed in MB. Ensure that your Wi-Fi gateway's date and time settings are correct in **Expert > Device Settings > Date & Time** for accurate Monthly usage information.



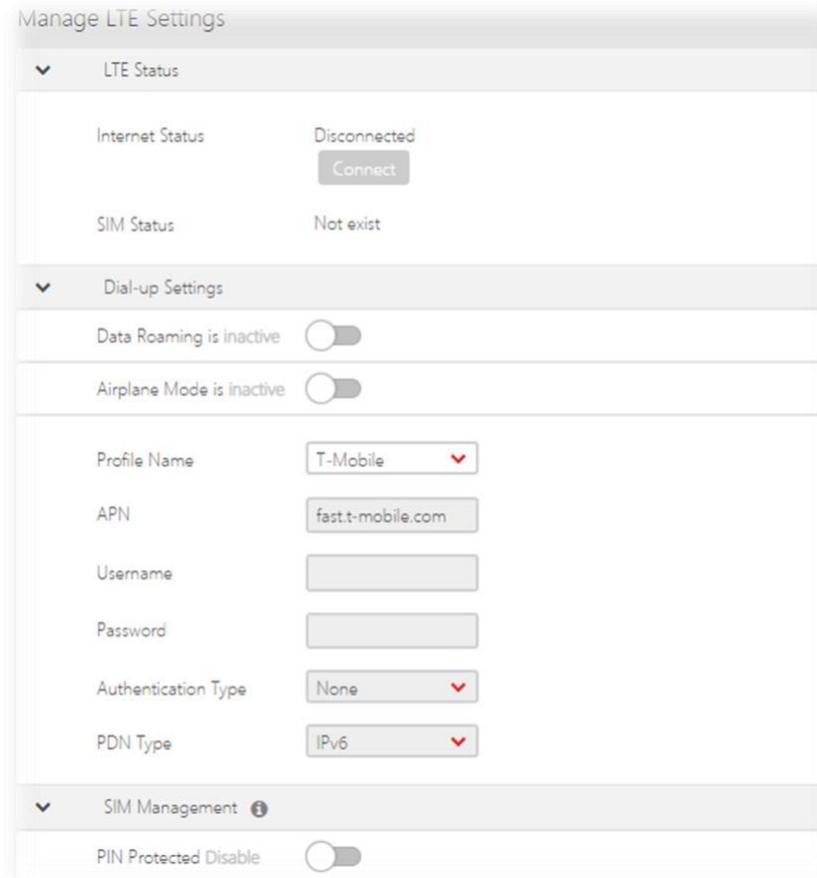
The screenshot shows a 'Manage Traffic Settings' interface with two expandable sections. The first section, 'Monthly usage', is expanded and shows three rows: 'Upload' (6.38MB), 'Download' (196.14MB), and 'Total Traffic' (202.52MB). The second section, 'Currently usage', is also expanded and shows four rows: 'Query Range' (2018-08-17 to 2018-09-04), 'Upload' (15.66MB), 'Download' (292.53MB), and 'Total Traffic' (308.19MB).

Manage Traffic Settings	
▼	Monthly usage
Upload	6.38MB
Download	196.14MB
Total Traffic	202.52MB
▼	Currently usage
Query Range	2018-08-17 to 2018-09-04
Upload	15.66MB
Download	292.53MB
Total Traffic	308.19MB

LTE

Basic > Network > LTE

LTE settings are pre-configured by default. You can disconnect the LTE connection using the Disconnect button if needed, and the connection and SIM status are displayed accordingly.



Data Roaming, APN and PDN settings may ONLY be changed when directed to do so by T-Mobile customer support. You can also setup a PIN to use the LTE data connection

Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at 1-844-275-9310.

WiFi

Basic > Network > WiFi

The **WiFi** screen displays the basic settings for your Wi-Fi gateway's Wi-Fi. Your Wi-Fi gateway is dual-band and uses two Wi-Fi frequencies (2.4GHz & 5GHz) for better wireless performance on your devices. You can edit basic settings for 2.4GHz or 5GHz frequency bands by selecting the respective tab.



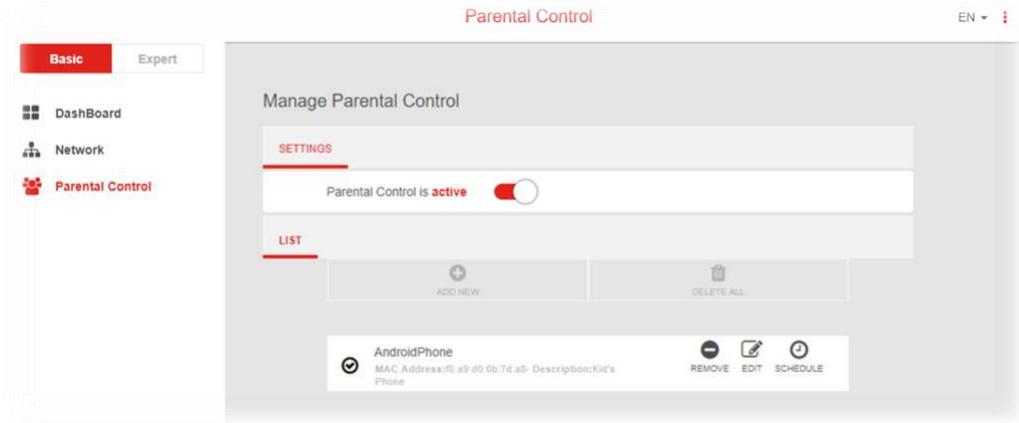
2.4 / 5 GHz Wi-Fi Settings	
WiFi is active/inactive	Enable or disable this Wi-Fi frequency.
Wireless Name (SSID)	This is the name of your Wi-Fi network for identification, also sometimes referred to as "SSID". The SSID can consist of any combination of up to 32 alphanumeric characters.
Hide SSID	Check 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 typically more secure than a visible SSID.
Wireless Password	Enter your Wi-Fi password. A complex, hard-to-guess key is recommended. The Wi-Fi password must be 12 characters

or longer.

5.3 Parental Control

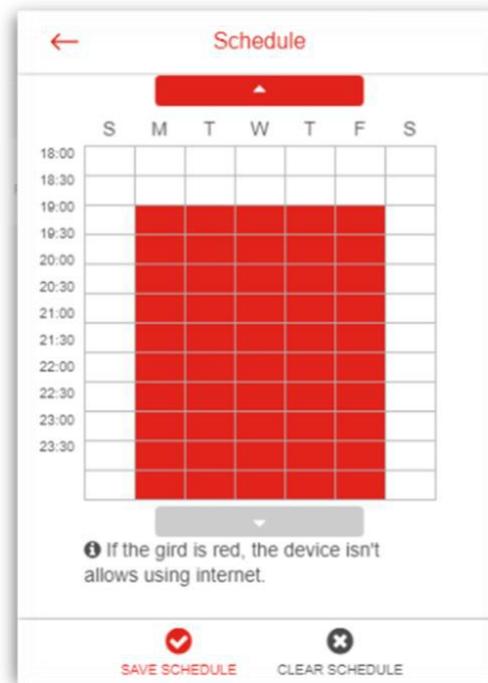
Basic > Parental Control

The **Parental Control** feature allows you to restrict Internet access to selected devices on your network at specified times e.g. disabling Internet access for a child's smartphone.



1. Set the slider to active to enable parental control.
2. Click **ADD NEW** to add and setup a new device for parental controls.
3. Select a device from the Client menu or enter the MAC address manually.
4. Specify a Device Name and Description for the device easy reference.
5. Check the **ENABLE THIS ENTRY** box and click apply to save the device.

6. Click the **SCHEDULE** icon beside the new device to setup the schedule for Internet access:
7. Click and drag to fill in the red blocks on the schedule by day and hour. The red blocks indicate the time blocks during which Internet access is not allowed.
8. Click **SAVE SCHEDULE** to save the schedule and the device's Internet access will now be restricted according to the schedule.



6. Expert Settings

Your Wi-Fi gateway comes with an intuitive Web User Interface (Web UI) that allows you to easily setup its Basic & Expert features.

Menu

Select the **Expert** tab in the menu:



-  **DashBoard**
-  Network
-  SMS
-  NAT Forwarding
-  Parental Control
-  Diagnostic
-  Security
-  Services
-  Device Settings
-  Quality of Service

Save

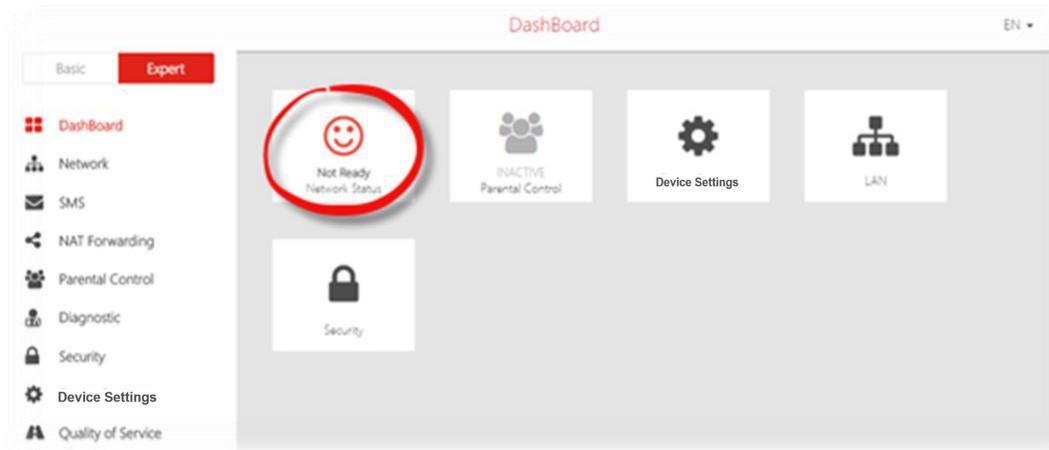
Remember to save your settings with the save button after making changes. The icon takes you back to the Dashboard.



6.1 Dashboard

Expert > Dashboard

The Dashboard shows a snapshot of your network status with quick links to key features of your Wi-Fi gateway.



Select any icon on the dashboard: **Network Status**, **Parental Control**, **Device Settings**, **LAN**, & **Security** to access more information and settings.

Network Status takes you to **Expert > Network > Status**

Parental Control takes you to **Expert > Network > Parental Control**

Device Settings takes you to **Expert > Network > Device Settings > Administration**

LAN takes you to **Expert > Network > LAN**

Security takes you to **Expert > Security > Firewall**

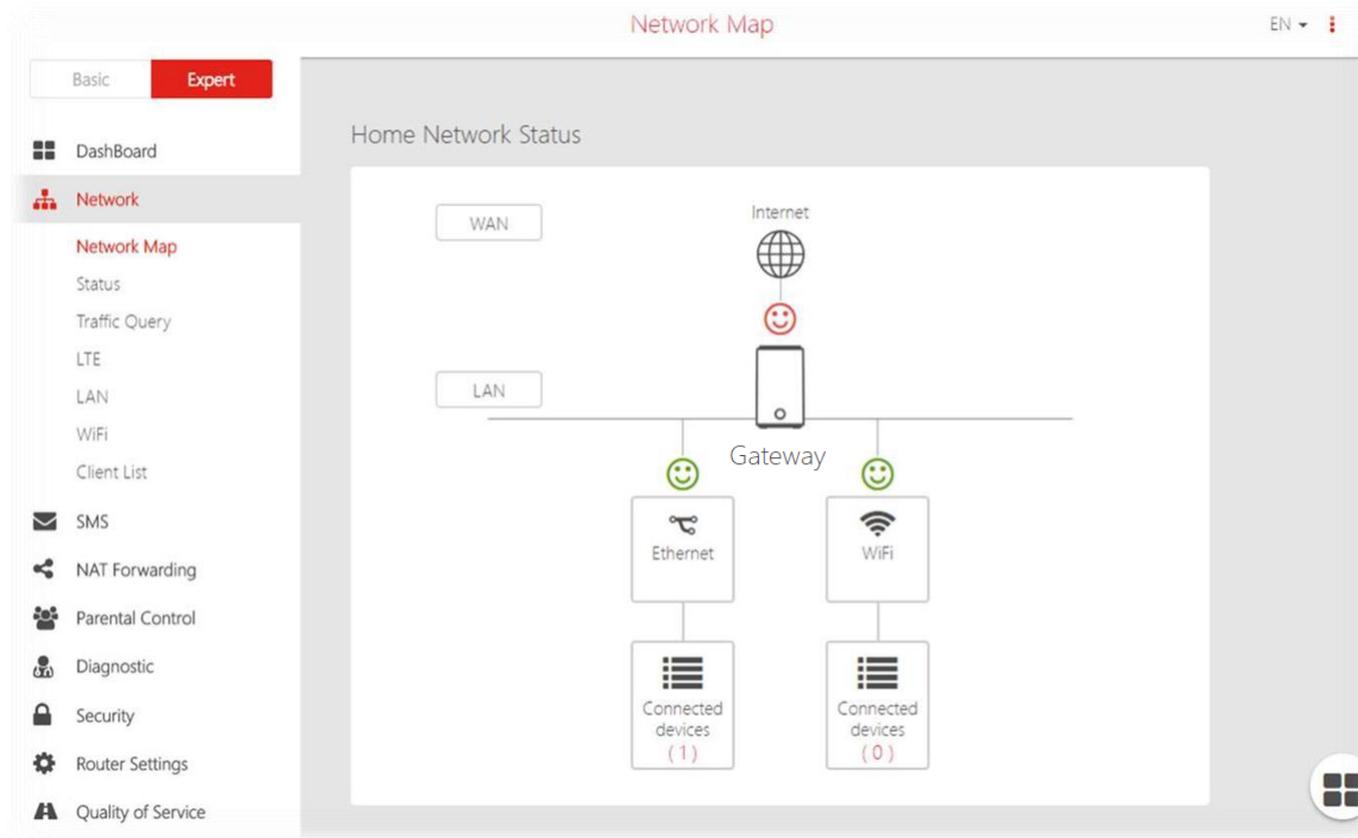
Network Status should display **All OK** to indicate a functioning LTE network. If you don't see this, check the Wi-Fi gateway's LEDs and refer to Troubleshooting to diagnose the problem.

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6.2 Network

Expert > Network

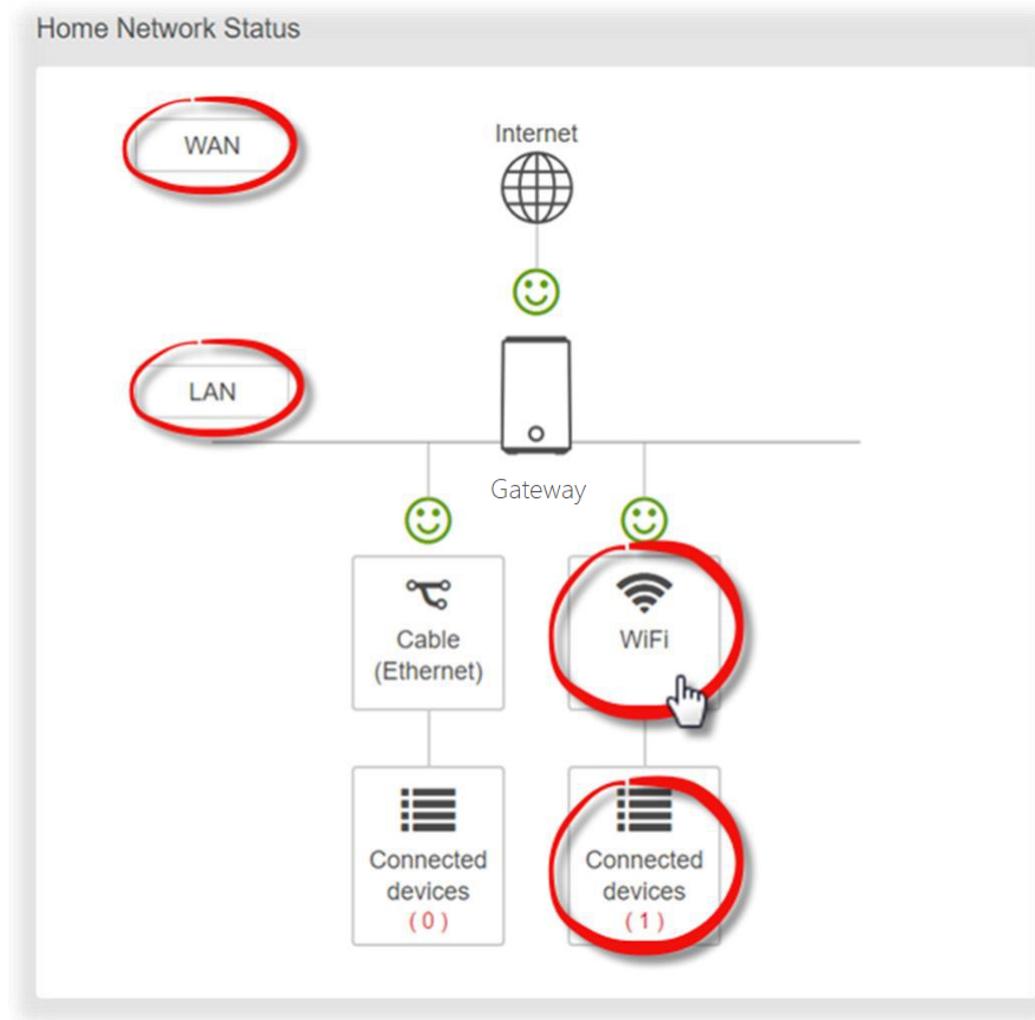
The Network menu provides quick links to the basic networking functions of your Wi-Fi gateway. When you select the Network menu, the Network Map page is displayed as below.



Network Map

Expert > Network > Network Map

The network map provides a visual overview and status information of the network and devices on the network, with quick links to wireless security settings and client lists. It's important to check and configure security settings.

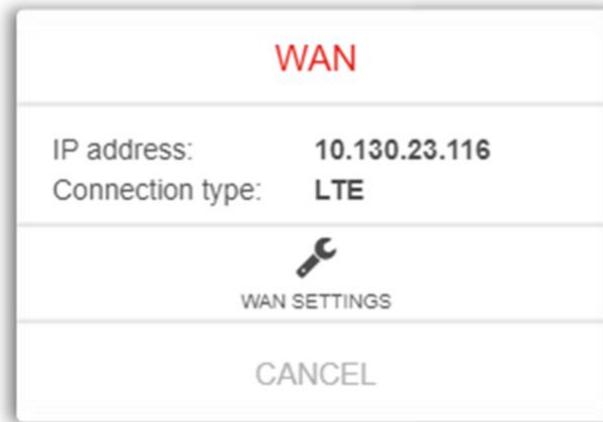


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Select icons on the dashboard for more information and settings, as displayed below:

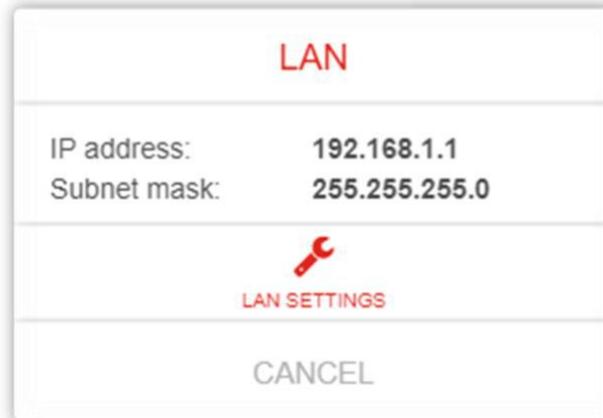
WAN

Displays the Wi-Fi gateway's Wide Area Network (WAN) IP Address and Connection Type (LTE).



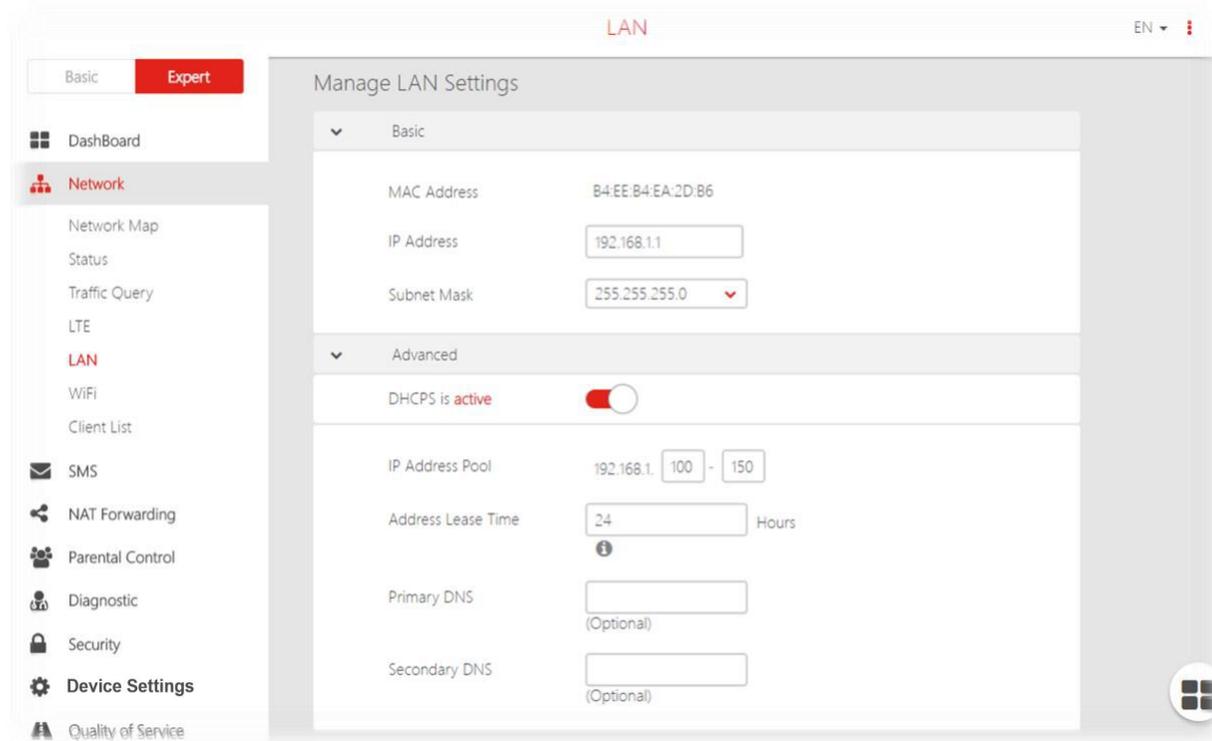
LAN

Displays the Wi-Fi gateway's Local Area Network (LAN) IP Address and Subnet Mask. Click LAN Settings to modify the settings.



LAN > LAN Settings

This page allows you to configure your Wi-Fi gateway on your Local Area Network (LAN). You can specify a static IP address for your Wi-Fi gateway, and configure your Wi-Fi gateway as a DHCP server to assign IP addresses to other devices on your LAN.



Basic	
MAC Address	Displays the MAC address of your Wi-Fi gateway. A MAC Address is a unique fixed identifier for any device on a network.
IP Address	Specify the IP address here. This IP address will be

	assigned to your Wi-Fi gateway and will replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is 255.255.255.0

Advanced	
DHCP is active/inactive	Toggle the switch to enable or disable DHCP server.
IP Address Pool	Enter the start and end IP address of the IP address range which your Wi-Fi gateway's DHCP server will assign to devices on the network.
Address Lease Time	Enter an address lease time in hours. IP addresses will be assigned for this period of time before being reassigned.
Primary DNS Address	Enter a primary DNS address.
Secondary DNS Address	Enter a secondary DNS address.

WiFi

Displays your Wi-Fi gateway's 2.4GHz & 5GHz network name (SSID) with switches to quickly enable or disable either Wi-Fi network. Click Wi-Fi Settings to go to Network > Wi-Fi Settings.



Connected Devices

Displays all devices (clients) connected to your Wi-Fi gateway, by Ethernet (LAN) or Wi-Fi (wireless) e.g. laptops, smartphones. The device name, MAC address and IP address is listed for each device.



Status

Expert > Network > Status

Network Status displays the status of the network across six categories: Internet v4, Internet v6, LTE, LAN, Wireless & System Information.

Information is listed in Network Status for reference as described below:

Internet v4

Displays IPv4 Wide Area Network WAN information about your Wi-Fi gateway's LTE connection. IPv4 is the default Internet protocol widely used across the Internet.

Internet v6

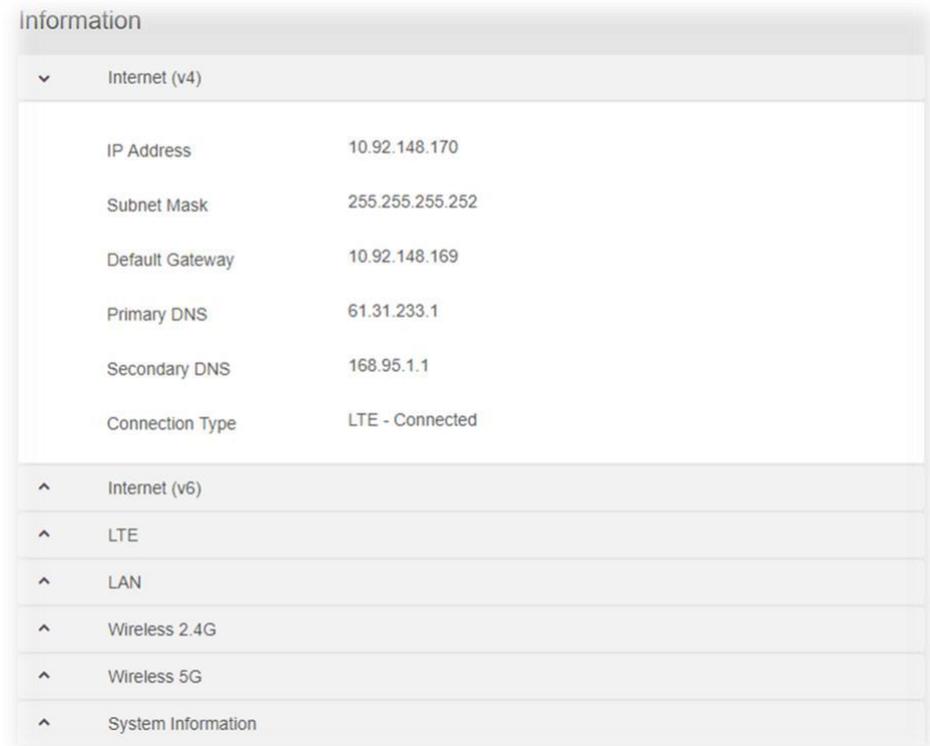
Displays IPv6 Wide Area Network WAN information about your Wi-Fi gateway's LTE connection. IPv6 is an alternative Internet protocol which is not yet widely supported. To setup IPv6 go to **Expert > Network > LTE**. Contact T-Mobile for more information about using IPv6.

LTE

Displays LTE information including signal strength. To edit LTE settings go to **Expert > Network > LTE**.

LAN

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



The screenshot shows a mobile interface titled "Information". It features a list of network categories: Internet (v4), Internet (v6), LTE, LAN, Wireless 2.4G, Wireless 5G, and System Information. The "Internet (v4)" category is expanded, displaying a table of network parameters.

Parameter	Value
IP Address	10.92.148.170
Subnet Mask	255.255.255.252
Default Gateway	10.92.148.169
Primary DNS	61.31.233.1
Secondary DNS	168.95.1.1
Connection Type	LTE - Connected

Wireless 2.4GHz & 5GHz

Displays your Wi-Fi gateway's Wi-Fi information for both 2.4GHz & 5GHz frequencies. Includes network name (SSID) and radio & channel information. To edit these Wi-Fi settings go to **Expert > Network > WiFi Settings**.

System Information

Displays system identifiers unique to your hardware.

Traffic Query

Expert > Network > Network Map

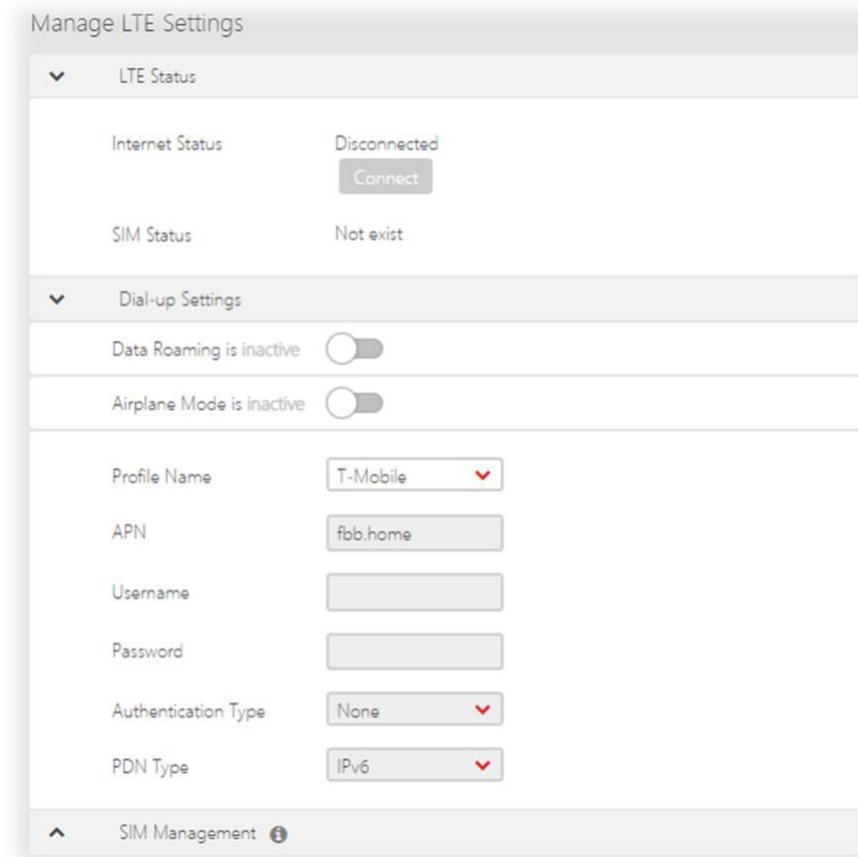
Traffic Query displays your network data usage, with upload, download and total traffic displayed in MB. Ensure that your Wi-Fi gateway's date and time settings are correct in **Expert > Device Settings > Date & Time** for accurate Monthly usage information.

Manage Traffic Settings	
▼	Monthly usage
Upload	6.38MB
Download	196.14MB
Total Traffic	202.52MB
▼	Currently usage
Query Range	2018-08-17 to 2018-09-04
Upload	15.66MB
Download	292.53MB
Total Traffic	308.19MB

LTE

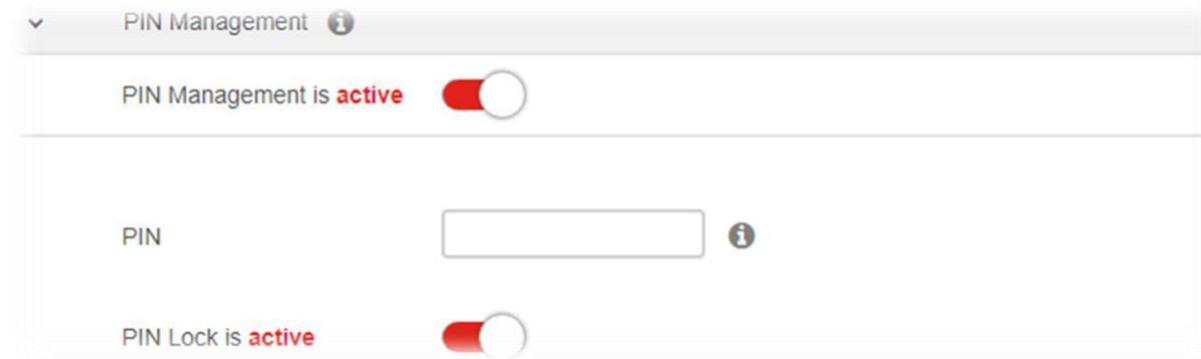
Expert > Network > LTE

LTE settings are pre-configured by default. You can disconnect the LTE connection using the Disconnect button if needed, and the connection and SIM status are displayed accordingly.



Data Roaming, APN and PDN settings may ONLY be changed when directed to do so by T-Mobile customer support. You can also setup a PIN to use the LTE data connection:

Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at 1-844-275-9310.

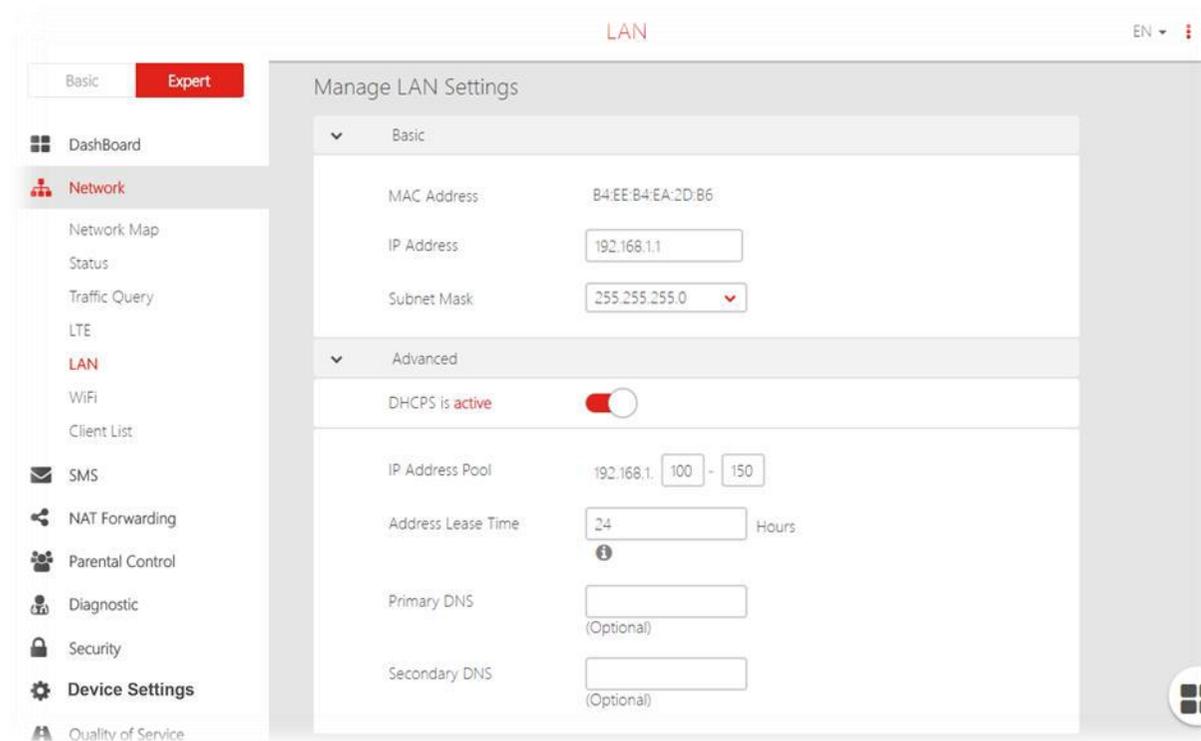


1. Click the PIN Management switch on and see that Pin Management is now active.
2. Enter a 4 digit PIN in the range 0000-9999.
3. Choose to switch on Pin Lock or not. When active, if an incorrect PIN is entered 3 times the SIM Card will be locked.

LAN

Expert > Network > LAN

The LAN page allows you to configure your Wi-Fi gateway on your Local Area Network (LAN). You can specify a static IP address for your Wi-Fi gateway, and configure your Wi-Fi gateway as a DHCP server to assign IP addresses to other devices on your LAN.



Basic

MAC Address

Displays the MAC address of your Wi-Fi gateway. A MAC address is a unique fixed identifier for every device on a network.

IP Address	Specify the IP address here. This IP address will be assigned to your Wi-Fi gateway and will replace the default IP address.
Subnet Mask	Specify a subnet mask. The default value is 255.255.255.0

Advanced	
DHCP is active/inactive	Toggle the switch to enable or disable DHCP server.
IP Address Pool	Enter the start and end IP address of the IP address range which your Wi-Fi gateway's DHCP server will assign to devices on the network.
Address Lease Time	Enter an address lease time in hours. IP addresses will be assigned for this period of time before being reassigned.
Primary DNS Address	Enter a primary DNS address.
Secondary DNS Address	Enter a secondary DNS address.

WiFi

Expert > Network > WiFi

The **WiFi** screen displays advanced settings for your Wi-Fi gateway's Wi-Fi. Your Wi-Fi gateway is dual-band and uses two Wi-Fi frequencies (2.4GHz & 5GHz) for better wireless performance on your devices. You can edit advanced settings for 2.4GHz or 5GHz frequency bands by selecting the respective tab.

The screenshot shows the 'Manage Wireless Settings' interface for a 2.4 GHz Wi-Fi network. At the top, there are two tabs: '2.4 GHz' (selected) and '5 GHz'. Below the tabs, there is a section for '2.4 GHz WiFi Settings'. The first item is a toggle switch for '2.4 GHz WiFi is active', which is currently turned on. Below this, there are several settings: 'Wireless Name (SSID)' is set to 'TMobileWiFi-2.4GHz' with a 'Hide SSID' checkbox; 'Wireless Password' is masked with dots and has a 'Show Password' checkbox; 'Security' is set to 'WPA/WPA2-Personal'; 'Version' has two radio buttons, 'Mixed WPA/WPA2' and 'WPA2', with 'WPA2' selected; and 'Encryption' has two radio buttons, 'AES' and another one, with 'AES' selected. Below the '2.4 GHz WiFi Settings' section is a section for '2.4 GHz WiFi Channel Settings'. This section includes three dropdown menus: 'Mode' is set to '802.11g/n mixed', 'Channel' is set to 'Auto', and 'Channel Bandwidth' is set to 'Auto'.

Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at 1-844-275-9310.

2.4 / 5 GHz WiFi Settings	
WiFi is active/inactive	Enable or disable this Wi-Fi frequency.
Wireless Name (SSID)	This is the name of your Wi-Fi network for identification, also sometimes referred to as "SSID". The SSID can consist of any combination of up to 32 alphanumeric characters.
Hide SSID	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 typically more secure than a visible SSID.
Wireless Password	Enter your Wi-Fi password. A complex, hard-to-guess key is recommended. The Wi-Fi password must be 12 characters or longer.
Security	Select a Wi-Fi security type from the drop-down menu. WPA/WPA2 is the default setting and the most secure. Security can be disabled by selecting None but this is not recommended.
Version	Select which version of security type to use. WPA2 is the most secure but not supported by all wireless clients. Selecting Mixed WPA/WPA2 ensures wireless client compatibility.
Encryption	Displays encryption type according to version. AES encryption is the default setting for WPA2, while Mixed TKIP+AES is default for Mixed WPA/WPA2.

2.4 / 5 GHz Channel Settings

Mode	Select the wireless standard used for the Wi-Fi gateway's Wi-Fi. 802.11b/g mixed means 802.11b and 802.11g wireless clients can connect to the Wi-Fi gateway, 802.11g/n mixed means 802.11g and 802.11n wireless clients can connect to the Wi-Fi gateway.
Channel	Select a wireless radio channel or use the default "Auto" setting from the drop-down menu. Changing radio channel can improve Wi-Fi signal depending on how crowded the channel is with other radio signals and interference.
Channel Bandwidth	Set the channel bandwidth: 20MHz (lower performance but less interference), 40MHz (better performance but likely more interference), or Auto (automatically select based on interference level).

Client List

Expert > Network > Client List

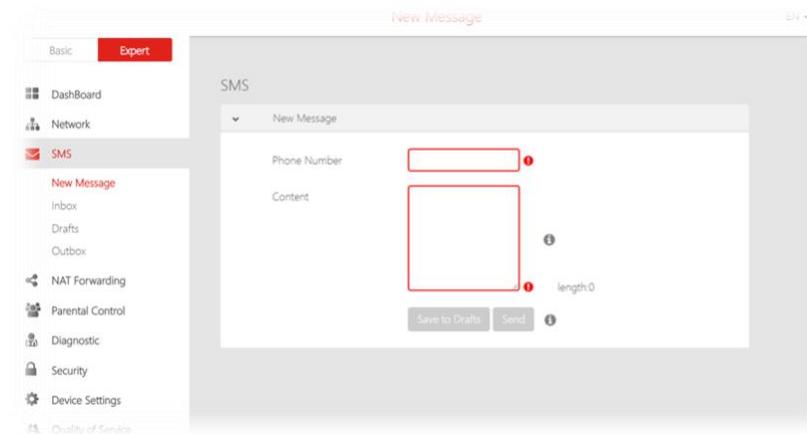
Displays all devices (clients) connected to your Wi-Fi gateway, by Ethernet (LAN) or Wi-Fi (wireless) e.g. laptops, smartphones. The device name, MAC address and IP address is listed for each device.



6.3 SMS

Expert > SMS

Your Wi-Fi gateway has an **SMS** feature according to your SIM card's data plan, with send, receive and draft functions that work the same way as SMS on a smartphone.



New Message

Expert > SMS > New Message

Compose new messages and send or save as a draft. Enter the recipient phone number correctly. Maximum 500 characters per SMS.

Inbox

Expert > SMS > Inbox

Displays all SMS received to the number associated with your LTE SIM card. Select any message and click the trash icon to delete.

Drafts

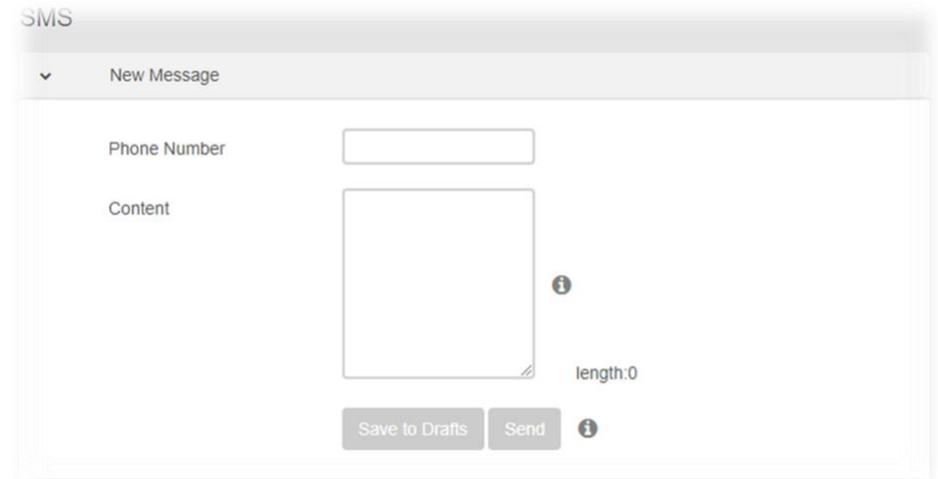
Expert > SMS > Drafts

Any SMS saved as Drafts will be displayed here. Select a message to remove, or edit and then send. Drafts capacity is limited to 100 messages after which new messages will be unable to save as drafts.

Outbox

Expert > SMS > Outbox

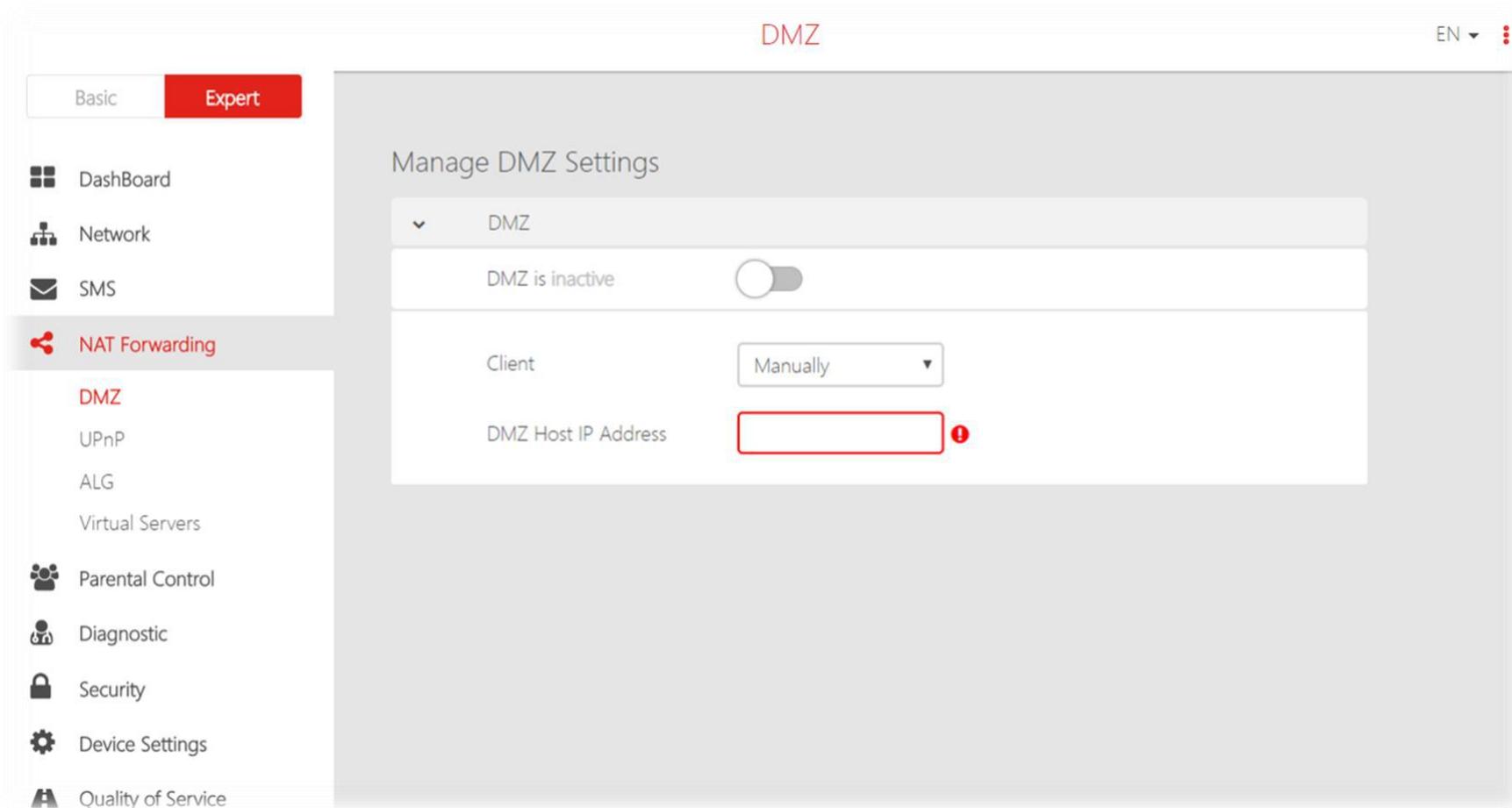
After sending, messages may go to the Outbox during sending until the message is sent. Outbox capacity is limited to 100 messages after which new messages will be unable to send.



6.4 NAT Forwarding

Expert > NAT Forwarding

Functions in the Network Address Translation (NAT) Forwarding menu can improve network performance and security.



DMZ

Expert > 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.

Manage DMZ Settings

DMZ

DMZ is inactive

Client

DMZ Host IP Address

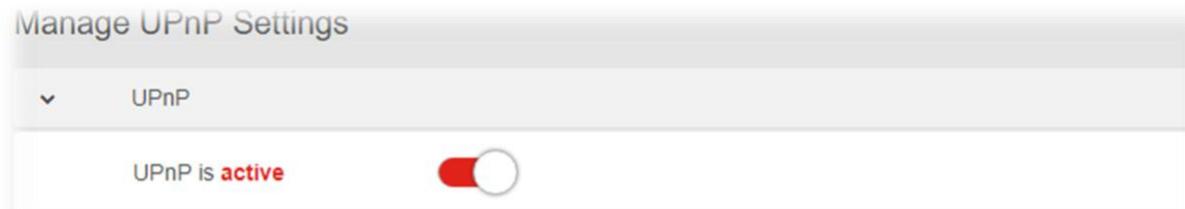
1. Use the switch to set DMZ to **active**.
2. Enter the IP Address of the computer to provide the DMZ service (ensure this computer is using a Static IP Address)

UPnP

Expert > NAT Forwarding > UPnP

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

It's typically used for data sharing, communications and entertainment purposes, although sometimes not preferred due to security concerns. Some devices may require UPnP to be enabled to function properly. Use the switch to set UPnP to active or inactive, according to your requirements.

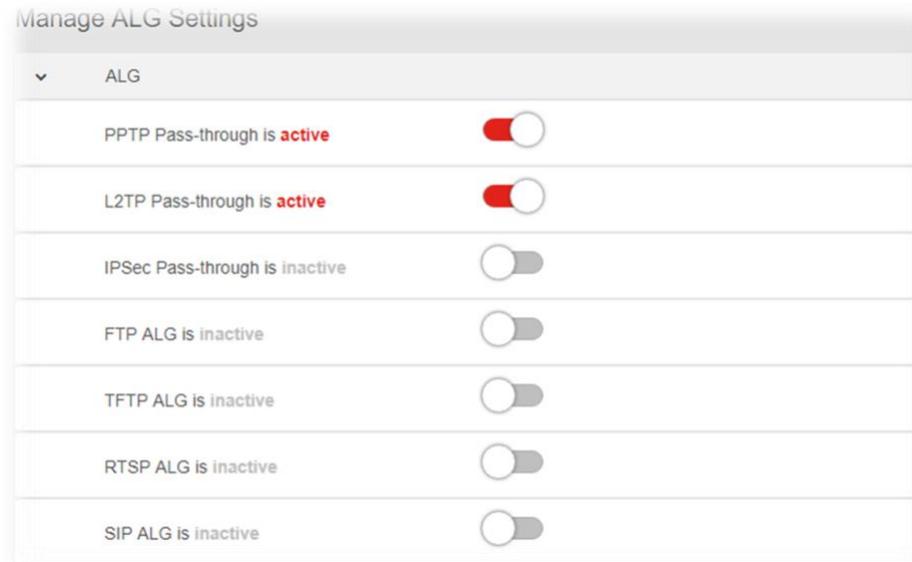


ALG

Expert > NAT Forwarding > ALG

Application Level Gateway (ALG) settings are advanced functions that can resolve issues where services are disrupted by the firewall. Each ALG module is a security component that augments the firewall. Services such as VPNs or Virtual Servers may require ALG modules enabled. By default all ALG modules are active. Use the switches to disable any ALG module required. ALG Settings are recommended for expert users only.

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



Manage ALG Settings	
PPTP Passthrough	Point-to-Point Tunneling Protocol (PPTP) is a module for implementing virtual private networks.
L2TP Passthrough	Layer 2 Tunneling Protocol (L2TP) is a tunneling protocol used to support virtual private networks (VPNs) or as part of the delivery of services by ISPs.
IPSec Passthrough	Internet Protocol Security (IPsec) is a protocol suite for securing Internet Protocol (IP) communications by authenticating and encrypting each IP packet of a communication session.
FTP ALG	File Transfer Protocol is a widely and commonly used method of exchanging files over IP networks. The FTP ALG

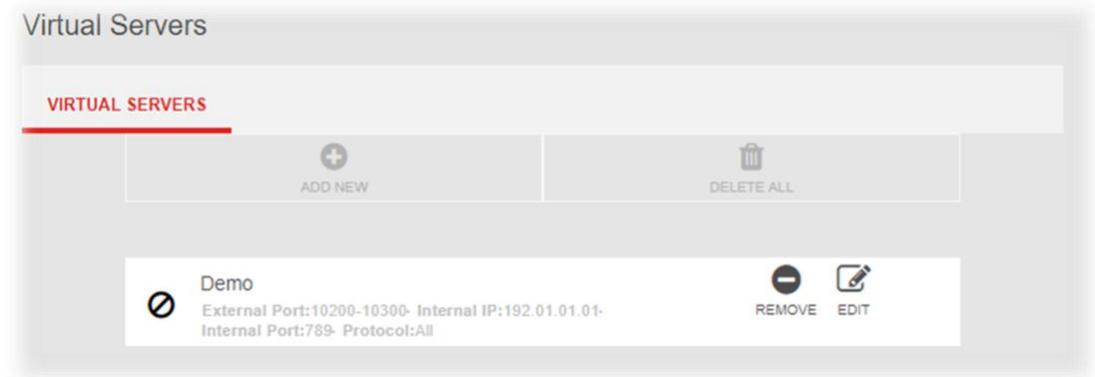
	monitors PORT, PASV, and 227 commands. It performs NAT on the IP, port, or both in the message and gate opening on the device as necessary
TFTP ALG	Trivial File Transfer Protocol (TFTP) is a simple protocol used for files transfer (<i>RFC 1350</i>). TFTP is implemented on top of UDP, with destination port 69 as the well-known port. The TFTP Application Layer Gateway (ALG) processes TFTP packets that initiate the request.
RTSP ALG	The Real Time Streaming Protocol (RTSP) is a network control protocol designed for use in entertainment and communications systems to control streaming media servers.
SIP ALG	The Session Initiation Protocol (SIP) is a communications protocol for signaling and controlling multimedia communication sessions. The most common applications of SIP are in Internet telephony for voice and video calls, as well as instant messaging all over Internet Protocol (IP) networks.

Virtual Servers

Expert > NAT Forwarding > Virtual Servers

This function allows you to set up an internet service on a local computer, without exposing the local computer to the internet. Internet traffic is directed to a specific port or range of ports on a device or devices on your local network. You can also build various sets of port redirection, to provide various internet services on different local computers via a single Internet IP address. It also allows PCs outside the network to access services provided by a computer in the local network.

1. Click **ADD NEW** and enter the parameters to setup a virtual server:

A screenshot of the 'Add New' configuration form for a virtual server. The form has a back arrow at the top left and a title 'Add New'. It contains several fields: 'Enable This Entry' (checked), 'Service Type' (text field with 'Demo'), 'External Port Start' (text field with '10200'), 'External Port End' (text field with '10300'), 'Client' (dropdown menu with 'Manually'), 'Internal IP' (text field with '192.168.1.123'), and 'Internal Port' (text field with '789'). At the bottom, there are radio buttons for 'Protocol': 'All' (selected), 'TCP', and 'UDP'. There are also 'APPLY' and 'CANCEL' buttons at the very bottom.

Service Type	Specify the service type e.g. HTTP, FTP etc.
External Port Start	Specify the external/public port to access the computer on your local network.
External Port End	Select the type of Internet Protocol.
Internal IP	Enter the IP address of the computer on your local network.
Internal Port	Specify the internal/private port you wish to use on the computer in your local network.
Protocol	Select the connection protocol: TCP, UDP or All.

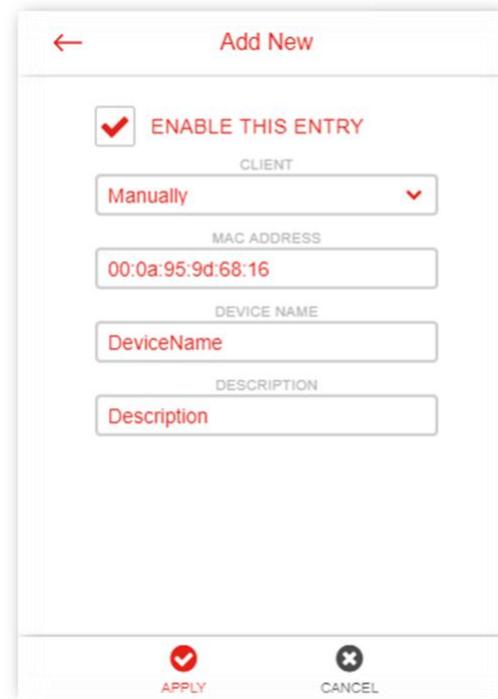
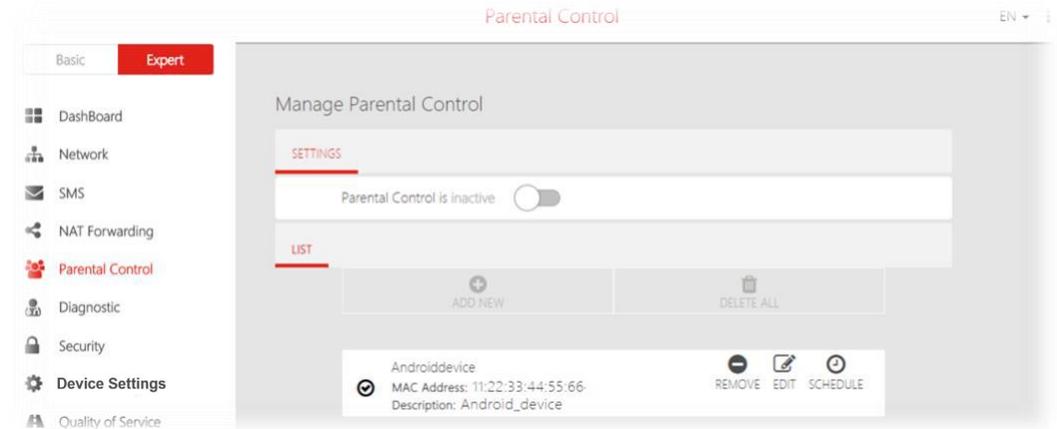
2. Check **ENABLE THIS ENTRY** and click **APPLY** to save and enable the settings for your virtual server. You can remove or edit any Virtual Server entry using the icons.

6.5 Parental Control

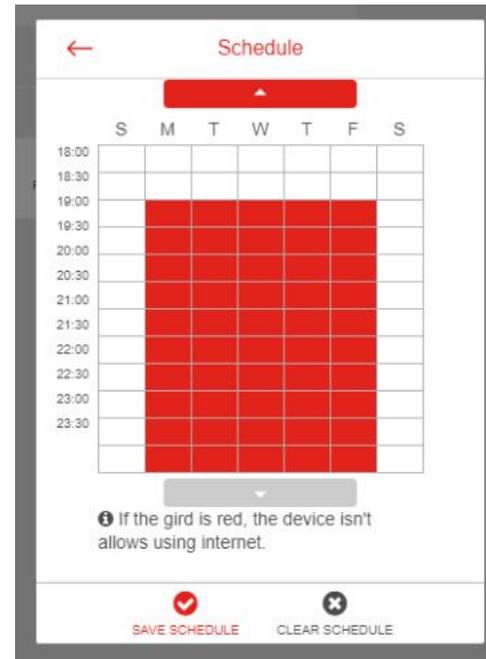
Expert > Parental Control

The **Parental Control** feature allows you to restrict Internet access to selected devices on your network at specified times e.g. disabling Internet access for a child's smartphone.

1. Set the slider to active to enable parental control.
2. Click **ADD NEW** to add and setup a new device for parental controls.
3. Select a device from the Client menu or enter the MAC address manually.
4. Specify a Device Name and enter a Description of the device for easy reference.
5. Check the **ENABLE THIS ENTRY** box and click apply to save the device.
6. Click the **SCHEDULE** icon beside the new device to setup the schedule for Internet access:



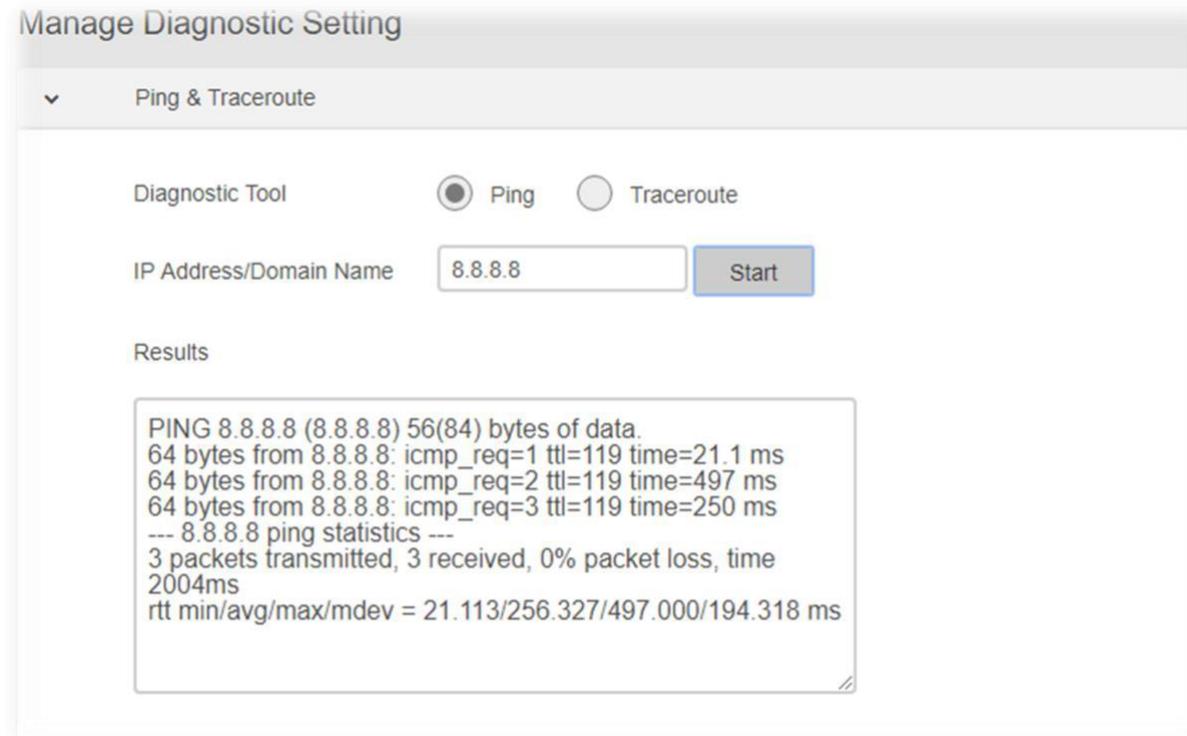
7. Click and drag to fill in the red blocks on the schedule by day and hour. The red blocks indicate the time blocks during which Internet access is not allowed.
8. Click **SAVE SCHEDULE** to save the schedule and the device's Internet access will now be restricted according to the schedule.



6.6 Diagnostic

Expert > Diagnostic

You can run Ping & Traceroute diagnostic tests with the Wi-Fi gateway. Enter the IP address to use for the test and click Start, results are displayed in the box.



The screenshot shows a web interface titled "Manage Diagnostic Setting". Under the "Ping & Traceroute" section, there are two radio buttons for "Diagnostic Tool": "Ping" (selected) and "Traceroute". Below this is a text input field for "IP Address/Domain Name" containing "8.8.8.8" and a "Start" button. A "Results" section contains a text box with the following output:

```
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data.  
64 bytes from 8.8.8.8: icmp_req=1 ttl=119 time=21.1 ms  
64 bytes from 8.8.8.8: icmp_req=2 ttl=119 time=497 ms  
64 bytes from 8.8.8.8: icmp_req=3 ttl=119 time=250 ms  
--- 8.8.8.8 ping statistics ---  
3 packets transmitted, 3 received, 0% packet loss, time  
2004ms  
rtt min/avg/max/mdev = 21.113/256.327/497.000/194.318 ms
```

6.7 Security

Expert > Security

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

The screenshot displays the 'Firewall' configuration page in the Expert mode. The sidebar on the left includes a 'Security' section with sub-items: Firewall, IP / MAC binding, and Access Control. The main content area, titled 'Manage Firewall Settings', contains a dropdown menu set to 'Firewall' and four toggle switches:

- SPI Firewall is active (toggle is on)
- DoS Protection is active (toggle is on)
- WAN Block Ping is inactive (toggle is off)
- LAN Block Ping is inactive (toggle is off)

Firewall

Expert > Security > Firewall

The Wi-Fi gateway features a built-in firewall that provides protection to your network from unauthorized intrusions from the Internet. The firewall features four modules which can be enabled or disabled using the switches.

SPI Firewall

Stateful Packet Inspection (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.

DoS Protection

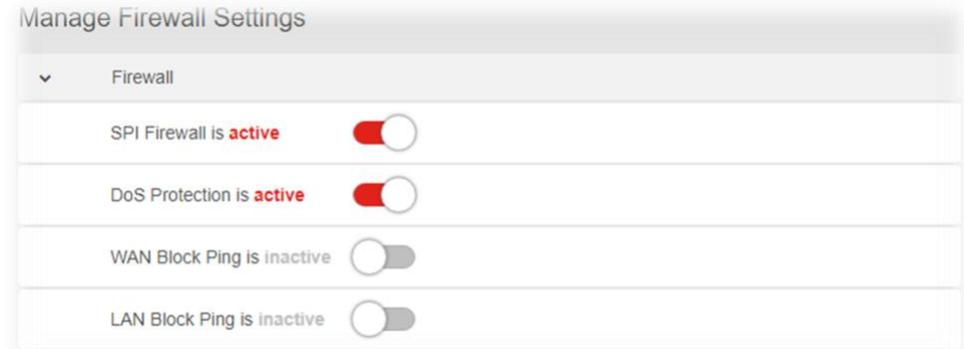
Denial-of-Service (DoS) is a common form of malicious attack against a network. The Wi-Fi gateway's firewall can protect against such attacks by filtering unreasonable packets that could flood and disable network with large amounts of traffic.

WAN Block Ping

When active the Wi-Fi gateway will not answer ping requests from the Internet. This can increase security as pinging is a common method used by hackers to test networks.

LAN Block Ping

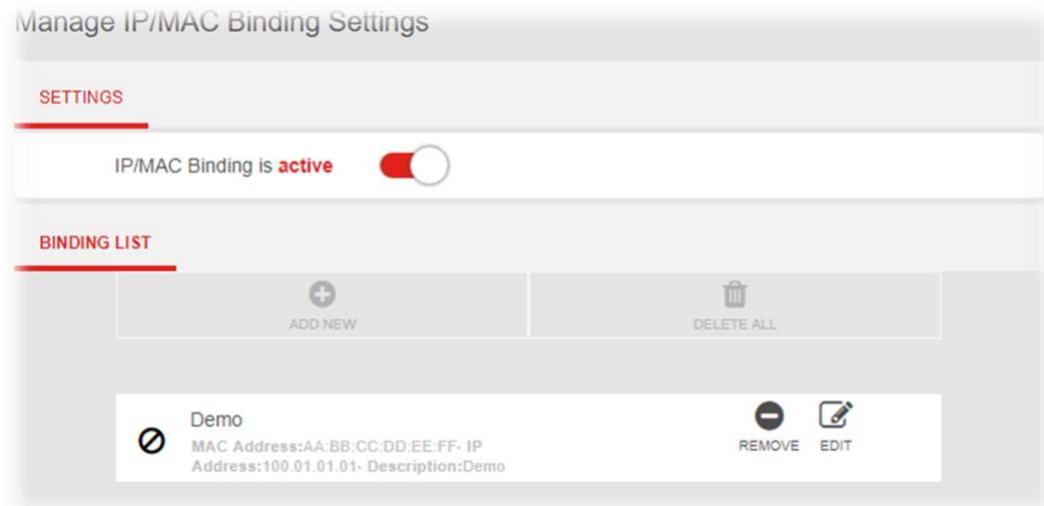
When active the Wi-Fi gateway will not answer ping requests from the local network. This can increase security as pinging is a common method used by hackers to test networks.



IP / MAC Binding

Expert > 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 Wi-Fi gateway's DHCP Server every time the device connects to the Wi-Fi gateway. Static IP addresses can be useful for using 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.



1. Switch IP/MAC Binding on using the switch.
2. Click **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.
5. Check the **ENABLE THIS ENTRY** box and click apply to save the device.
6. Click the **REMOVE** or **EDIT** icon beside any entry in the Binding List to remove or edit the entry.

← Add New

ENABLE THIS ENTRY

CLIENT
Manually

MAC ADDRESS
AA:BB:CC:DD:EE:FF

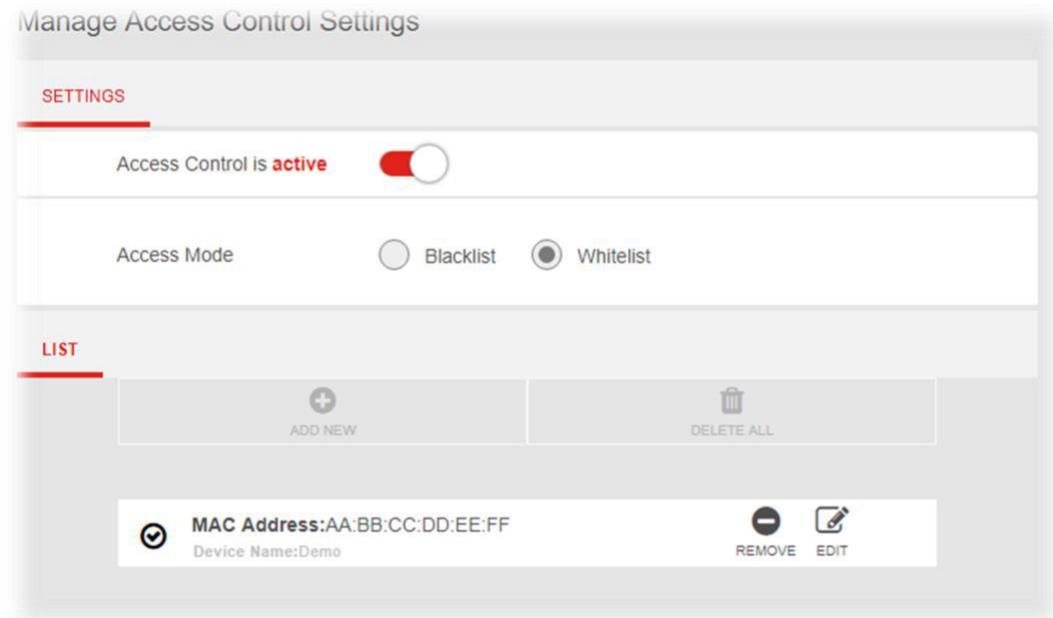
IP ADDRESS
192.01.01.01

DESCRIPTION
Demd

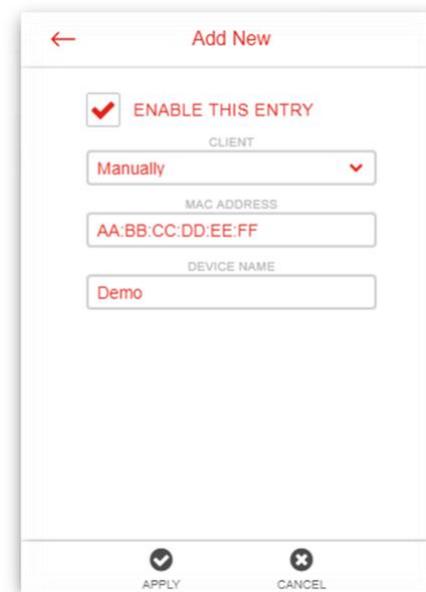
Access Control

Expert > Security > Access Control

Access Control is a security feature that can help to prevent unauthorized users from connecting to your Wi-Fi gateway. You can define a list of network devices permitted (whitelist) or denied (blacklist) to connect to the Wi-Fi gateway. Devices are each identified by their unique MAC address or IP address.



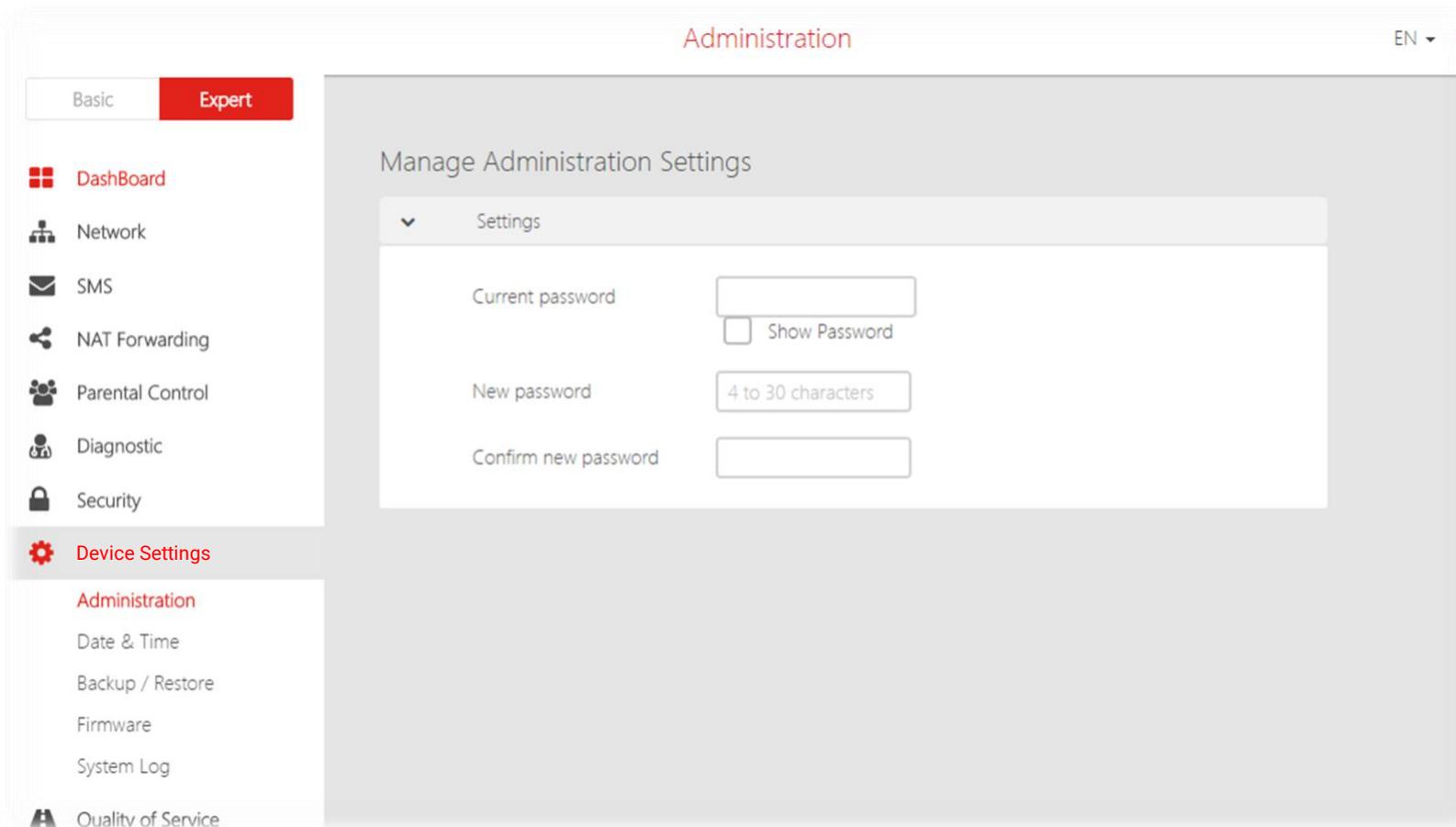
1. Switch Access Control on using the switch.
2. Select Blacklist (not permitted) or Whitelist (permitted), and click **ADD NEW**.
3. Select a device from the Client menu or enter the MAC address manually.
4. Enter the Name of the device for easy reference.
5. Check the **ENABLE THIS ENTRY** box and click apply to save the device.
6. Click the **REMOVE** or **EDIT** icon beside any entry in your Blacklist or Whitelist to remove or edit the entry.



6.8 Device Settings

Expert > Device Settings

Various administrative functions of your Wi-Fi gateway can be configured from the **Device Settings** menu, including the Web UI login password, Wi-Fi gateway date & time settings, backup, Wi-Fi gateway firmware and system logs.



Administration

Expert > Device Settings > Administration

The **administration** function allows you to change the login password for the Wi-Fi gateway's Web UI. It's essential to change this password for the security of your Wi-Fi gateway. Use hard-to-guess password which include combinations of numbers, letters and symbols, and change your password regularly.

Manage Administration Settings

Settings

Current password Show Password

New password

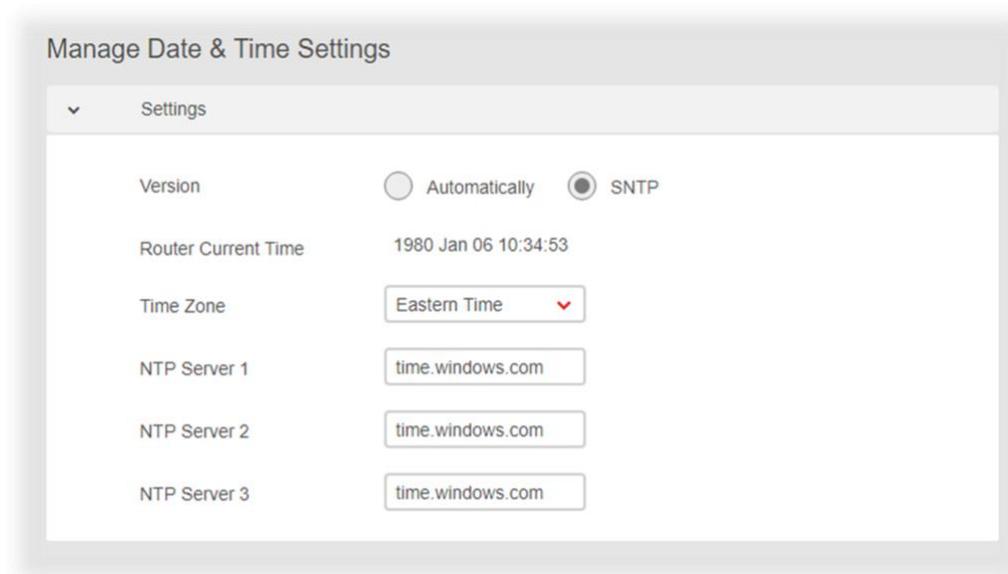
Confirm new password

1. Enter the current password for authentication.
2. Enter your name password in the New Password field and again to confirm, and choose **Save** to save the new settings.

Date & Time

Expert > Device Settings > Date & Time

Set the **date and time** for your Wi-Fi gateway. You can use a Simple Network Time Protocol (SNTP) which synchronizes the date and time with public time servers, or the Wi-Fi gateway can get the date and time automatically based on your selected time zone.



1. Select SNTP from the Version options.
2. Select your time zone from the drop-down menu.
3. If you want to use SNTP to synchronize date and time with public time servers, enter the NTP Servers and Save settings.
4. Set the Version back to Automatic to use the selected time zone automatically, and Save the settings.

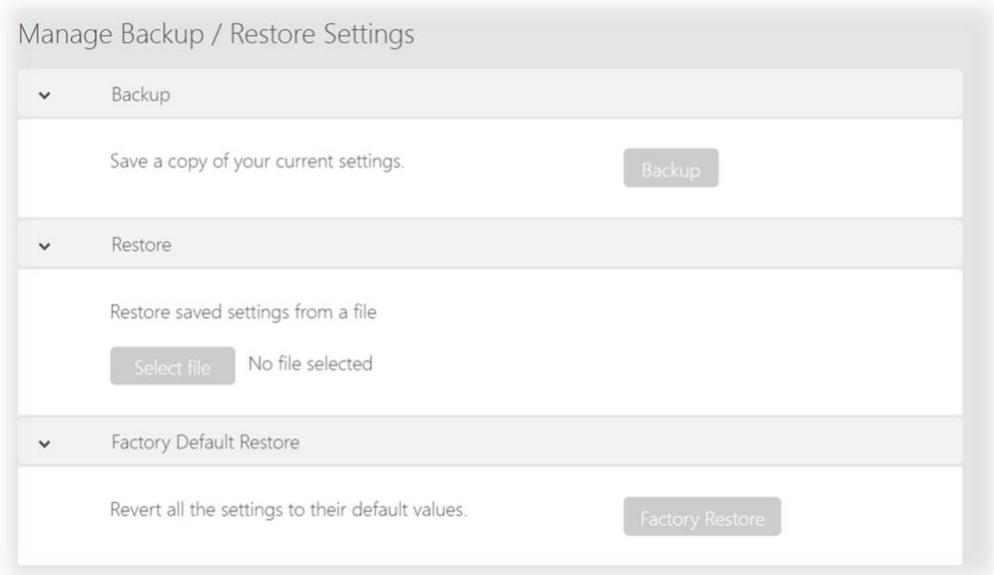
Examples of commonly used NTP Servers include time.microsoft.com or time.google.com.

Need help? Visit <http://t-mobile.com/isp/support> or call T-Mobile customer service at 1-844-275-9310.

Backup / Restore

Expert > Device Settings > Backup & Restore

The Backup & Restore page enables you to save/backup the Wi-Fi gateway's current settings as a file to your local computer, or restore your Wi-Fi gateway to previously saved settings by loading a backed up file. You can also reset the Wi-Fi gateway back to factory default settings. If the Wi-Fi gateway malfunctions or is not responding, then it is recommended that you first **reboot the device** (press the reset button for 1 second), and if still experiencing problems reset the device back to its factory default settings. You can **reset the Wi-Fi gateway back to its default settings** using the Reset button on the back of the Wi-Fi gateway (press and hold for 4+ seconds).



Backup Save a copy of your current settings	Click the Backup button to save the settings file to your local computer.
Restore Restore saved settings from a file	Choose Select File to locate a previously saved settings file on your computer and select it to load the file to your Wi-Fi gateway.
Factory Default Restore Revert all the settings to their default values.	Select Factory Restore to revert your Wi-Fi gateway to it's original factory default state. This resets all settings.

Notice:

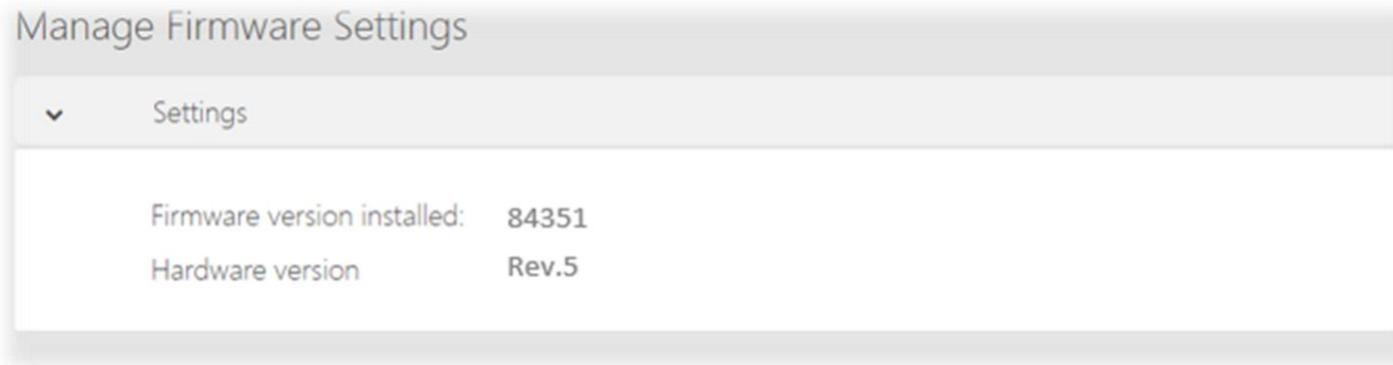
1. Reboot the device – press the reset button for 1 second

2. Reset the device back to its factory default settings – press and hold for 4+ seconds

Firmware

Expert > Device Settings > Firmware

The **Firmware** page displays your Wi-Fi gateway's firmware version and hardware version information.



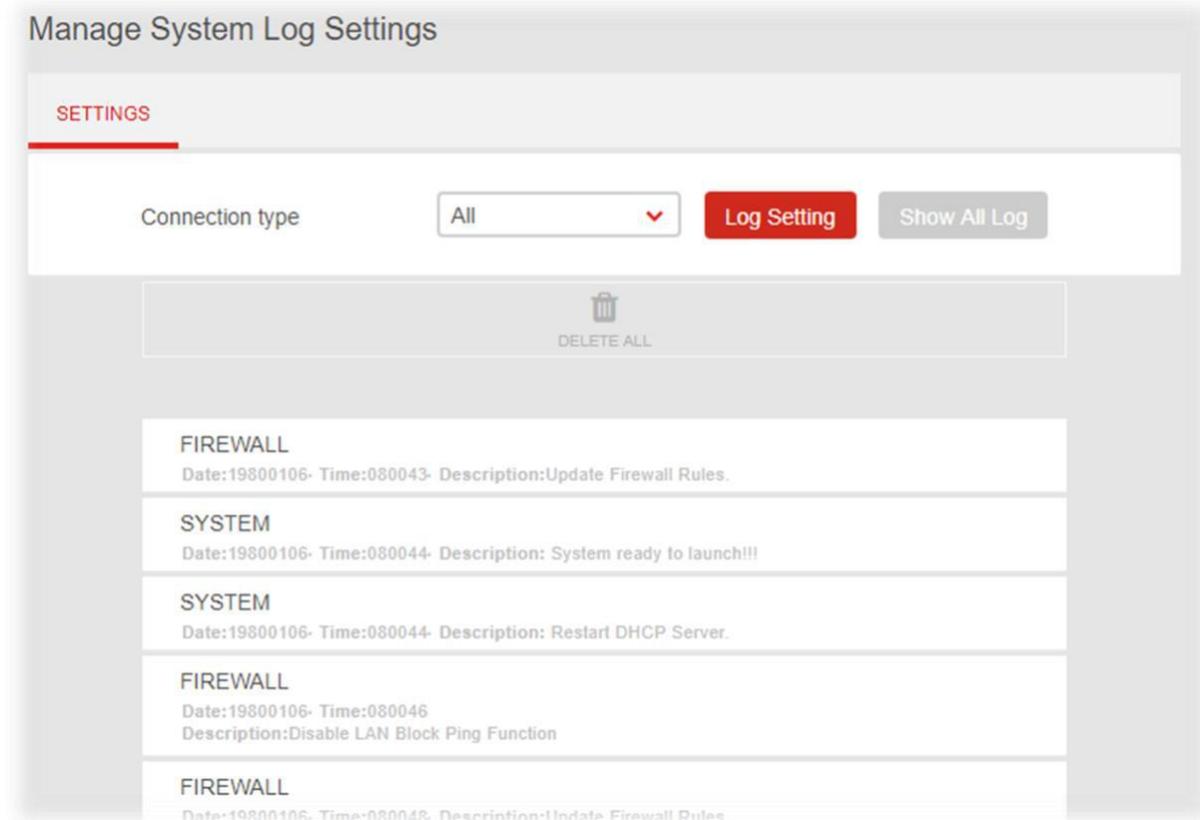
The screenshot shows a web interface titled "Manage Firmware Settings". Below the title is a dropdown menu labeled "Settings" with a downward arrow. Underneath the dropdown, there is a table with two rows of information:

Firmware version installed:	84351
Hardware version	Rev.5

System Log

Expert > Device Settings > System Log

System Log is useful information for network administrators or for potentially troubleshooting Wi-Fi gateway/network issues. The page displays a detailed information log of network activities under different categories. You can select a category using the drop-down menu or view all categories, as well as clear log entries using the **DELETE ALL** icon.

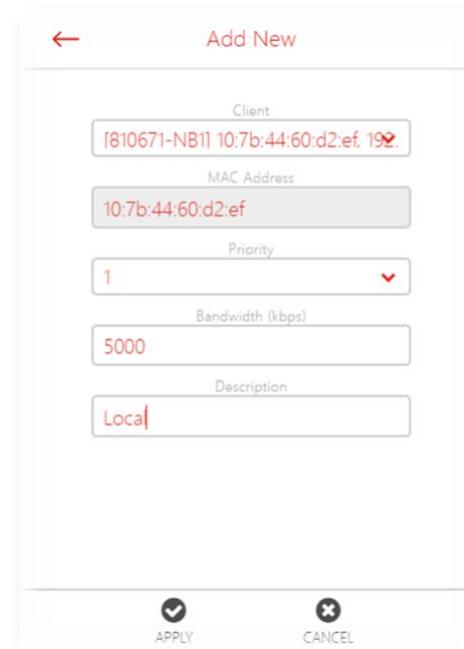
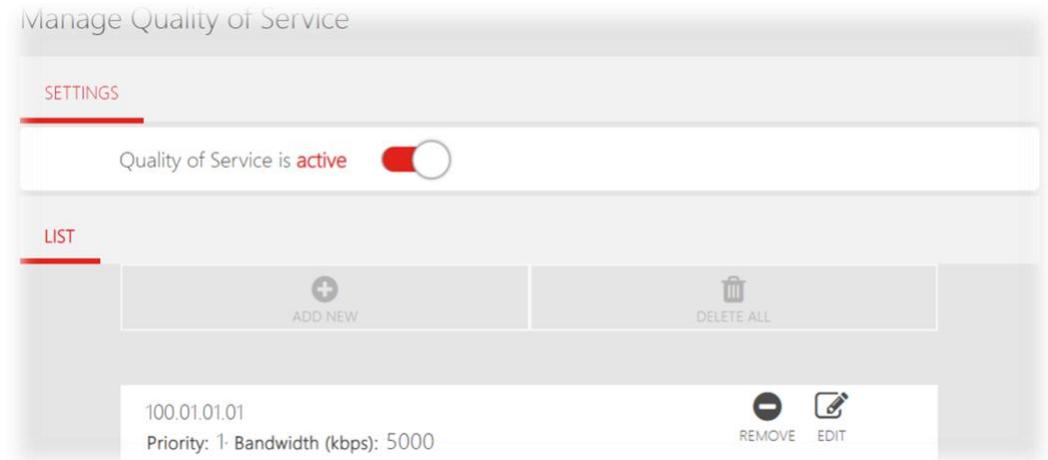


6.9 Quality of Service

Expert > Quality of Service

Quality of Service (QoS) is a feature to manage Internet bandwidth efficiently. Some applications require more bandwidth than others to function properly, and QoS allows you to ensure that sufficient bandwidth is available. Maximum bandwidth can be set for specified devices on the network, ensuring that sufficient bandwidth is available for others – or priority numbering can be used to prioritize devices on the network for bandwidth. QoS can improve performance for applications such as gaming or entertainment streaming.

1. Switch Quality of Service on using the switch.
2. Click **ADD NEW** to add and setup a new device for QoS.
3. Select a device from the Client menu or enter the MAC address manually.
4. Select a priority number for this device, which indicates its priority for bandwidth on the network e.g. no. 1 gets bandwidth priority over no. 2.
5. Enter a maximum bandwidth limit in KBPS. Allocate bandwidth according to your data plan, number of devices on your network, and device priority. You can use this to limit bandwidth for lower priority devices.
6. Click **APPLY** to save the QoS settings for this device.
7. Click the **REMOVE** or **EDIT** icon beside any entry in your QoS list to remove or edit the entry.



7. Troubleshooting

If you are having problems with your Wi-Fi gateway, try these basic steps in this section before looking for further solutions.

Phone or computer is disconnected from the Wi-Fi gateway.

Your phone or computer might have lost the connection to the Wi-Fi gateway due to interference, system updates, or any number of reasons. If you're not connected, reconnect to the Wi-Fi gateway's Wi-Fi and make sure the password is correct, or use an Ethernet cable to connect directly to the Wi-Fi gateway's LAN port. Follow the steps in [4. Configure your LTE Wi-Fi Gateway](#) for more help.

Cannot find the Wi-Fi network or cannot connect to the Wi-Fi gateway.

If you can't see your Wi-Fi gateway's Wi-Fi when scanning available networks, or if you can't establish a connection, try the following:

- Refresh the list of available Wi-Fi networks on your device.
- Switch the Wi-Fi gateway off and back on again with the power switch.
- Move the Wi-Fi gateway closer to your device, or move your device closer to the Wi-Fi gateway.
- Restart your device or computer.

If you still can't find the Wi-Fi network or establish a connection, then try resetting your Wi-Fi gateway back to factory default settings. To do this, press and hold the reset button on the back of the Wi-Fi gateway for at least 4 seconds and wait for the Wi-Fi gateway to restart. Then repeat the connection process as described in [4. Configure your LTE Wi-Fi Gateway](#).

Can't access the Web User Interface to configure settings.

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 Wi-Fi gateway's DHCP server. You'll need to check the support for your device or computer's operating system e.g. Windows, macOS, for detailed instructions how to do this.

8. Tips & tricks

Taking care of your SIM card

- You should not remove your SIM card from the Wi-Fi gateway unless asked to do so by T-Mobile customer service.
- Keep your SIM card dry and clean
- Avoid extreme temperatures and magnetic fields
- Do not bend, cut, trim or modify the SIM card in any way.
- Avoid touching the SIM card's gold contacts.

Get the best Wi-Fi signal

Where you place the Wi-Fi gateway can affect your wireless coverage. For the best Wi-Fi performance, your Wi-Fi gateway needs open spaces, away from walls, obstructions and heavy-duty appliances or electronics.

Surf the Internet faster

Have you thought of changing your network frequency band to enjoy a faster connection? Your Wi-Fi gateway is dual-band (2.4GHz & 5GHz), so you'll likely get better speed by switching to the 5GHz band instead of the more commonly used and congested 2.4GHz band. Make sure your 5GHz Wi-Fi is active at **Basic > Network > WiFi** in the Wi-Fi gateway's Web UI, and connect your Wi-Fi device or computer to the 5GHz band instead of 2.4GHz.

Network security

Your Wi-Fi gateway is pre-set with the recommended WPA2 security type, but you should immediately change the default Wi-Fi password, as well as the Web UI login password. You can do so at **Expert > Network > WiFi** and **Expert > Device Settings > Administration** in the Web UI. It's not recommended to change Wi-Fi security type: WPA2 with AES is the most secure. And it's **never recommended** to disable Wi-Fi security (no security type), this means your network is open and anybody within range can connect by Wi-Fi.

Have more questions?

For troubleshooting, Wi-Fi Gateway configuration, or additional information about T-Mobile Wi-Fi Gateway installation go to <http://t-mobile.com/isp/support>, or Call T-Mobile customer service at **1-844-275-9310**.

IMPORTANT

9-1-1 Emergency Service available via LTE Wi-Fi Gateway may be limited. It will not function in the event of a broadband or power outage, or if your broadband, ISP or LTE Wi-Fi Gateway service is suspended or disconnected.

Before using LTE Wi-Fi Gateway to make calls you **MUST** provide T-Mobile with the primary street address where you will use your Wi-Fi Gateway device in order to enable 9-1-1 Emergency Service. **If you do not supply T-Mobile with your correct address, your call may not be routed to the correct emergency response center for your area.** Your Wi-Fi Gateway device may not operate at a location other than the address you have registered with T-Mobile. As a result, and to assist 911 operators with determining your device's location, you **MUST** update your address as soon as possible if the device is moved to a new address.

Qualifying wireless service, compatible phone & broadband Internet connection required for fixed location LTE Wi-Fi Gateway, may require plan change. Non-return fee applied if Wi-Fi Gateway is not returned. See **T-Mobile Terms and Conditions (including arbitration provision)** at T-Mobile.com for details and restrictions **including important 9-1-1 limitations**. T-Mobile and the magenta color are registered trademarks of Deutsche Telekom AG. ©2018 T-Mobile USA, Inc. Property of T-Mobile USA, Inc. Not for Resale.

9. Technical Specification

General

Technical Standard	3GPP LTE , LTE Category 12
Frequency band	LTE FDD: B2, B4, B12, B71, B66, B5 WCDMA: B1, B2, B4, B5, B8
Wi-Fi Standard	802.11 a/b/g/n/ac
Dimensions (W x H x D)	170mm x 124mm x 55mm
Operating temperature range	-20 – 45 °C
Storage temperature range	-40 – 85 °C
Battery	5200mAh
AC adapter (or plug-in adapter) type	ADAPTER 24W 12VDC/2A
Dimensions (W x H x D)	170mm x 124mm x 55mm

Connections

DC input	12V/ 2A
USB input	1x 2.0 Micro USB connector (for professional service only)
Ethernet plugs	2xRJ-45

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.

Radiation Exposure Statement

The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.