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Get Started

The following topics give you all the information you need to set up your device and Virgin Mobile service the first time.

Your Device

The following illustrations show your device’s primary external features and buttons.

Front View

![Front View of the device with labels: LCD screen, External antenna port, micro-USB port, External antenna port]

Top View

![Top View of the device with label: Power button]
**Package Contents**
Your package includes several items.

- NETGEAR Mingle Mobile Hotspot
- Battery cover
- Rechargeable battery
- AC charger with type-A USB port
- Micro-USB cable
- Micro-SIM (pre-installed)
- Get Started guide
Care and Maintenance
As with any electronic device, you should handle this device with care to ensure reliable operation. Follow these guidelines in using and storing your device.

- Protect your device from liquids, dust, and excessive heat.
- Do not handle or operate your device while driving or operating a vehicle. Doing so may distract you from properly operating the vehicle. In some jurisdictions, operating communication devices while in control of a vehicle is a criminal offense.
- Do not apply adhesive labels to your device. They may cause your device to overheat and may alter the antenna’s performance.

System Requirements
The following items are required to use your NETGEAR Mingle Mobile Hotspot.

- One or more computers that support Wi-Fi (802.11b/g/n)
- Web browser. The following browsers are supported:
  - Internet Explorer® (version 8.0 or higher)
  - Mozilla Firefox® (version 4.0 or higher)
  - Google Chrome™ (version 17 or higher)
  - Apple Safari® (version 5.0 or higher)
  - Apple Safari® Mobile (version iOS 4.0)
  - Android Browser (Android OS 2.2 or higher)
- The following operating systems are supported:
  - Windows® 8 (x86), Windows 7, Windows Vista®, Windows XP® SP3, or Mac OS® X (version 10.5 or higher)
  - Mac OS 10.6–10.8, iOS4, Android 2.1, Blackberry 5.0
- If you’ll be connecting your device through USB, a USB2.0 slot

Setting Up Your Device
The following topics describe how to set up and start using your device.

Device Setup
This section describes how to set up your device.
1. Install the battery (see Installing the Battery for details).

2. The battery is shipped partially charged. If you want to fully charge the battery at this time, connect your device to the AC charger (see Charging the Battery for details).

3. Plug the AC charger into an electrical outlet.

**Important:** Charge your device until the battery icon is full (▁▁▁▁▁▁).

**Starting Your Device for the First Time**

The NETGEAR Mingle Mobile Hotspot must be activated before you can use it to access the Internet.

If you do not have an account with Virgin Mobile, you will connect to the mobile hotspot, use your web browser to access the Mingle Manager, and be directed to Virgin Mobile to create your account. Once your account is created, the device will activate using hands-free activation.

If you already have an account with Virgin Mobile, the device may activate automatically. If it does, the LCD screen will show when you have connected to the network and can use the device.

**Power On and Activate Your Account**

1. Turn on the hotspot (press and hold the Power button on the top of the device for at least 2 seconds).

2. Connect your computer to the hotspot.
   a. From your computer, display the Wireless Network Connections window.
   b. Select the Wi-Fi name displayed, click Connect, and enter your Wi-Fi password, which is displayed on the LCD display screen.


4. When the activation prompt appears, click Start Activation and follow the prompts to set up your Virgin Mobile Broadband2Go account.

5. After your account is set up, you should see a Hands Free Activation notice in the Mingle Manager, followed by a PRL update and a service update.

6. After the device is finished activating, you should see a notification in the Mingle Manager that reads, “Your Network Settings are Updated.” Click on the link in this notification to open the Virgin Mobile Broadband2Go account login page.

**Note:** If you are logged out of the Mingle Manager, sign in by entering your password (the default password is “password”) in the Sign In field and clicking Sign In.
7. Enter your 6-digit account PIN to log into your account and follow the prompts to select a data plan and pay with a credit/debit card or a Top-Up card.

8. Finally, launch your computer’s Web browser and navigate to a Web page to confirm your connection. You may have to restart your device first.

**Getting Help**

Learn where you can get more information or assistance.

**Visiting the Virgin Mobile Website**

Sign on to virginmobileusa.com to get up-to-date information on Virgin Mobile services and options.

- Review coverage maps.
- Access your account information.
- Add additional options to your service plan.
- Purchase accessories.
- Check out frequently asked questions.
- And more.

**Contacting Virgin Mobile Customer Service**

You can reach Virgin Mobile Customer Service online or by calling toll-free.

- Log in to your account at virginmobileusa.com.
- Call us toll-free at 1-877-877-8443.
Device Basics

Learn about the buttons, connectors, and other components of your NETGEAR Mingle Mobile Hotspot.

Your device provides a simple way to use your Internet connection (3G, or LTE) with any Wi-Fi-enabled device, and to share your Internet connection with friends and family.

Components of Your Device

Your device consists of several main components.

- **Main and Guest Wi-Fi networks**: The Wi-Fi networks (access points) connect your computers and other Wi-Fi-enabled devices to your hotspot.

- **Modem**: The modem connects your device to the Internet via the best available network (customizable):
  - LTE – Newer technology, faster speeds compared with 3G
  - 3G – CDMA technology, more widely available compared with LTE

- **Routing hardware**: The routing hardware handles traffic between the modem, the Wi-Fi access point, and the Wi-Fi network.

3G, and LTE Networks

These wireless networks connect you to the Internet.

Depending on your coverage area, you may have:

- Only LTE coverage
- Only 3G coverage
- A combination of these networks
Your device automatically connects to the fastest network that is available to you. If you have both 3G and LTE coverage and your connection happens to get disrupted, your device can automatically switch to the other network. (For more information, see Mobile Broadband Information and Settings.)

**Mobile Broadband Information and Settings**

The network icon indicates the active network service type.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>![LTE]</td>
<td>LTE service is available</td>
</tr>
<tr>
<td>![3G]</td>
<td>CDMA (3G) service is available</td>
</tr>
<tr>
<td>![No icon]</td>
<td>You have no service. Try the suggestions in Cannot Connect to the Mobile Broadband Network.</td>
</tr>
</tbody>
</table>

Your device is designed to always connect to the Virgin Mobile network if possible. If your device is not connected (dropped signal, outside of service area, etc.) the alerts icon (⚠️) appears on the LCD, and the connection status can be seen on the Mingle Manager Status panel.

Your device can be set to connect automatically to the best available network, or to LTE or 3G networks only. See Setting the Allowed Network Mode.

**Signal Information**

Learn how to determine the signal strength and get detailed network status information.

**Signal Strength**

The signal strength icon appears on your device’s home screen and in the Mingle Manager Status panel.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>![No signal]</td>
<td>No signal</td>
</tr>
<tr>
<td>![Very weak signal]</td>
<td>Very weak signal</td>
</tr>
<tr>
<td>![Excellent signal]</td>
<td>Excellent signal</td>
</tr>
</tbody>
</table>

**Active Network**

The network that is currently being used for your data connection appears on your device’s home screen and in the Mingle Manager Status panel.
Network Status

Detailed network information appears in the Mingle Manager under Settings > Network > Status Details.

Internet Connection Information

Information about your Internet connection is available.

- Data usage for the current connection session and the current billing period. (See Viewing Data Usage.)
- Router information. (See Router > Basic Tab, Router > Port Forwarding Tab, and Router > Port Filtering Tab.)

Battery

The battery compartment is on the back of your device. The battery is replaceable. New batteries, chargers, and other accessories are available at virginmobileusa.com.

Installing the Battery

Before you use your device, install the battery.

1. At the antenna connector shown below, lift the raised edge of the battery cover to remove it.

2. Insert the battery into your device, contacts end first. Make sure the battery contact points align with those inside the battery compartment.
3. Replace the battery cover.

Charging the Battery
You need to recharge your device’s battery periodically. You can continue using your device while it is charging.

The faster method is to connect your device to the AC charger. Alternatively, you can connect your device to your computer, although this charges more slowly.

Using the AC Charger with Your Device’s micro-USB Port
1. Insert the larger (Type A) end of the micro-USB cable into the AC charger.

2. Insert the other end of the cable into the micro-USB port on the side of your device.

3. Insert the AC charger into an electrical outlet. (If the battery is already partially charged when the charger is plugged into the outlet, your device will power on automatically.)

While your device is charging, the LCD (and the Mingle Manager home page, if your device is on) shows:

- If your device is on – ⚡ and the percentage charged (for example, “92%”).
- If your device is off – 🔋, the percentage charged (for example, “92%”), and the message “Charging…”

When your device is fully charged, the LCD (and the Mingle Manager home page, if your device is on) shows:

- If your device is on – ⚡ and the message “Battery is Fully charged. Please remove power.” Click the power button to close the message.
- If your device is off – ⚡ and the message “Battery is Fully charged. Please remove power.” Click the power button to close the message.

**Charging Through Your Computer**

![Charging through computer](image)

**Note:** If you will be using the USB connection to connect to the Internet (and not just for charging your device), you must install the device driver. (See TRU-Install.)

**Note:** If you are using Mac OS X 10.4.x, after you connect your device you may see a warning message that your computer is running on UPS backup battery and that you should prevent a computer shutdown. You can continue with your work. To prevent this message from being displayed, install the device driver.
1. Make sure your computer is turned on.

2. Insert the larger (Type A) end of the micro-USB cable into your computer.

3. Insert the other end of the cable into the micro-USB port on the side of your device.

While your device is charging, the LCD (and the Mingle Manager home page, if your device is on) shows:

- If your device is on – and the percentage charged (for example, “92%”).
- If your device is off – , the percentage charged (for example, “92%”), and the message “Charging…”

When your device is fully charged, the LCD (and the Mingle Manager home page, if your device is on) shows:

- If your device is on – and the message “Battery is Fully charged. Please remove power.” Click the power button to close the message.
- If your device is off – and the message “Battery is Fully charged. Please remove power.” Click the power button to close the message.

**Battery Information and Settings**

The battery icon indicates the state of the battery of your device.

The text next to the icon indicates the remaining charge.

The icon appears on your device’s home screen and in the Mingle Manager **Status** panel.

<table>
<thead>
<tr>
<th>Icon</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Battery icon" /></td>
<td>Battery is charged (26%-100%)</td>
</tr>
<tr>
<td><img src="image" alt="Battery icon" /></td>
<td>Battery level is low (11%-25%). Charge your device. (See Charging the Battery.)</td>
</tr>
<tr>
<td><img src="image" alt="Battery icon" /></td>
<td>Battery level is critical (&lt;10%). Charge your device immediately. (See Charging the Battery.)</td>
</tr>
<tr>
<td><img src="image" alt="Battery icon" /></td>
<td>Charging through the AC charger or computer.</td>
</tr>
</tbody>
</table>

The battery’s life is affected by the following conditions, some of which can be adjusted from your device and from the Mingle Manager:

- Standby time (See Setting the Sleep (Inactivity) Timer.)
- Data throughput
- Network signal strength (the better the signal, the longer the battery life)

**Power Button**
Use the power button to turn your device on and off.

**Turning Your Device On and Off**
Use the power button on your device to turn it on and off.

**Turning Your Device On**
1. Make sure that:
   - Your device has a charged battery inserted.
   - or –
   - Your device is connected to the AC charger or a computer (through the micro-USB cable).
2. If the LCD is blank, press and hold the **Power** button until the screen lights up.

![Power button image]

**Turning Your Device Off**
- Press and hold the **Power** button until the Shut Down message appears.

**Controlling Your Device Using the Power Button**
The power button is used to turn the Mingle Mobile Hotspot on or off, and to choose which information screen to display on the LCD.

<table>
<thead>
<tr>
<th>Desired result</th>
<th>Action</th>
</tr>
</thead>
</table>

Device Basics 19
<table>
<thead>
<tr>
<th>Desired result</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turn mobile</td>
<td>Press and hold the power button for 3-4 seconds</td>
</tr>
<tr>
<td>hotspot on</td>
<td></td>
</tr>
<tr>
<td>Turn mobile</td>
<td>Press and hold the power button for 3-4 seconds</td>
</tr>
<tr>
<td>hotspot off</td>
<td></td>
</tr>
<tr>
<td>Wake up Wi-Fi signal and device</td>
<td>Press and quickly release the power button</td>
</tr>
<tr>
<td>screen</td>
<td></td>
</tr>
<tr>
<td>Cycle through screens</td>
<td>Click (press and quickly release) the power button:</td>
</tr>
<tr>
<td></td>
<td>· Once – Go to next topic (switch between main screen, Alerts,</td>
</tr>
<tr>
<td></td>
<td>Guest Wi-Fi setup, About)</td>
</tr>
<tr>
<td></td>
<td>· Twice – Go to next page of the current topic (for example,</td>
</tr>
<tr>
<td></td>
<td>switch between pages of the ‘About’ screen)</td>
</tr>
</tbody>
</table>

**Restarting Your Device**

If you need to restart your device for some reason, you can use either of these methods.

- Press and hold the **Power** button for several (3-4) seconds until the device turns off, then press and hold the **Power** button to turn it back on.

- If the device will not turn off, remove and replace the battery, then press and hold the **Power** button to turn it back on.

**LCD**

The LCD has several icons that help you determine the status of your device and its connections, and a series of screens that let you enable/disable Guest Wi-Fi, view system alerts, and view device information. See **LCD Interface** for details.

If the LCD is not lit, see “Turning Your Device On” in **Turning Your Device On and Off**.

**Micro-SIM**

Your NETGEAR Mingle Mobile Hotspot comes with a pre-installed micro-SIM that gives you access to the Virgin Mobile network.

**Alerts**

Alerts notify you about situations that require your attention and suggest the actions you need to take to resolve them.
Some of the alerts you may encounter include:

- Software Update Available
- Max Wi-Fi devices reached
- Mobile Broadband disconnected
- Wi-Fi is off
- Hotspot is not activated
- SIM errors
Your Network Connection

Find out how to launch, share, and end your network connection.

Launching Your Network Connection

After your device powers on and boots up, a connection to the best available network is launched automatically.

Your device will remain connected at all times, unless:

- You are out of signal range or the signal is blocked (in a tunnel, etc.).

**Note:** Even though your device is connected, you are only billed when data is sent or received. See If the Connection is “Always On,” Am I Always Being Billed?.

See also:

- Internet Connection Information
- Mobile Broadband Information and Settings
- Signal Information

Setting up a Guest Wi-Fi Network

Your NETGEAR Mingle Mobile Hotspot lets you create a separate Guest Wi-Fi network that you can share with temporary users.

Devices on the Guest Wi-Fi network:

- Cannot access devices that are on the Main Wi-Fi network (such as printers or other computers)
- Cannot use the Mingle Manager to change any device settings

Turning the Guest Wi-Fi Network On

You can turn on the Guest Wi-Fi network from your device’s Guest Wi-Fi screen, or from the Mingle Manager’s Wi-Fi page.

On the LCD screen

1. From the homescreen, click the power button once to display the next screen. Repeat until you reach the Guest Wi-Fi screen.

2. Click the power button twice to turn on Guest Wi-Fi.
In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi.
3. In the Guest Wi-Fi area, click Turn On.

Turning the Guest Wi-Fi Network Off
You can turn off the Guest Wi-Fi network from your device’s Guest Wi-Fi screen, or from the Mingle Manager’s Wi-Fi page.

On the LCD screen

1. From the homescreen, click the power button once to display the next screen. Repeat until you reach the Guest Wi-Fi screen.
2. Click the power button twice to turn off Guest Wi-Fi.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi.
3. In the Guest Wi-Fi area, click Turn Off.

Randomizing the Guest Wi-Fi Password
You can set the hotspot to use the same Guest Wi-Fi password all the time, or for greater security, you can have it generate a random password each time the Guest Wi-Fi network is turned on.

Note: The password changes only when Guest Wi-Fi is turned on – for example, if Guest Wi-Fi was on when your device was restarted, the password doesn’t change because the Guest Wi-Fi is still on.

In the Mingle Manager (http://minglehotspot)

1. Make sure you’re logged in to the home page.
2. Click Wi-Fi > Options.
3. In the Guest Wi-Fi section, select Generate a new password each time I turn on the Guest Wi-Fi.
4. Click Submit.
**Change the Guest Wi-Fi Password**
You can change your Guest Wi-Fi password immediately.

**Change it Manually**
- See [Change Wi-Fi Network Names and Passwords](#).

**Generate a Random Password**
1. Make sure the random password setting is on (see [Randomizing the Guest Wi-Fi Password](#)).
2. Turn off Guest Wi-Fi (see [Turning the Guest Wi-Fi Network Off](#)).
3. Turn Guest Wi-Fi back on (see [Turning the Guest Wi-Fi Network On](#)).

**Sharing Your Connection**
Your NETGEAR Mingle Mobile Hotspot provides two ways of sharing your network connection with other users.

- User manually enters the Main or Guest Wi-Fi network information.
- User connects to the Main or Guest Wi-Fi network using WPS.

**Manually Entering the Wi-Fi Information**
Users can connect to the network by manually entering the Wi-Fi information.

Share your network connection with others:

1. Provide the Main or Guest Wi-Fi network name and password to them.
2. On their computers, users must open the Wi-Fi network manager and connect to the Main or Guest Wi-Fi network of the NETGEAR Mingle Mobile Hotspot with the password you provided. (See [How Do I Connect to Wi-Fi?](#))

**Connecting Through WPS**
Wi-Fi Protected Setup (WPS) provides a fast, simple, and secure way to connect WPS-enabled devices to your Wi-Fi network. You don’t have to give the name (SSID) and Wi-Fi password of your Main or Guest network to other users.

The WPS feature is available on certain cameras, printers, smartphones, and laptops. These devices have either a hardware button or a WPS-related option in the software. Please consult the user documentation of your device.

WPS is always available for the Main and Guest Wi-Fi networks as long as the Wi-Fi radio is on (device is not asleep due to sleep (standby) option, or off while device is tethered).
WPS is not available in any of these situations:

- Wi-Fi radio is off while your device is sleeping due to inactivity.
- Wi-Fi radio is off while your device is tethered. See Disable Wi-Fi When Tethering Device (Connected Through USB)).
- The Wi-Fi security option is WPA Personal, WEP, or WEP-related (for example, “WEP 64 Bit Open”). (Note: WPS is available if the Wi-Fi security option is WPA/WPA2 Personal.) (See Wi-Fi Security.)
- Broadcast network name is not enabled. (See Options Tab.)
- MAC Filter Mode is “White list (Allow only those in list)”, but no computers have been added to the list. (See “Specifying Computers That Can Access the Network” in Allowing or Denying Computers Access to the Network (MAC Filter)).

If the maximum number of connected devices on the chosen network (Main or Guest) has already been met, an error message indicating that the maximum number of devices has been reached is displayed when you attempt WPS. Disconnect one of the connected devices and then retry.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi.
3. Below the Main Wi-Fi or Guest Wi-Fi sections, click WPS.
4. Perform one of the following procedures, depending on whether the Wi-Fi device you are adding to your Wi-Fi network supports the PBC (Push Button Configuration) method or the PIN (Personal Information Number) method.

If the Wi-Fi device supports the PBC (Push Button Configuration) method:

a. Click WPS button pairing.

b. Within 2 minutes, press the WPS button on the wireless device you want to connect or select the WPS-related option in your device’s software.

– or –

If the Wi-Fi device has a PIN associated with it:

a. Find out the PIN for the Wi-Fi device you are adding. To do this, use the PIN option in your device’s software. Alternatively, use the Wi-Fi Protected Setup Wizard that may be available, depending on the manufacturer of your device.

b. In the web page, click Enter WPS PIN.
c. Enter your device’s PIN.

d. Click Submit.

Your NETGEAR Mingle Mobile Hotspot and the wireless device will communicate and establish the connection. If no problems are encountered, the message “The device can now access your hotspot” displays. If your device does not connect, the message “No device was connected …” displays – try to connect it manually. (See How Do I Connect to Wi-Fi?)

**Note:** If you want to stop the pairing process, click Cancel.

### Connecting Through USB

Use the micro-USB cable (included) to connect your device to your computer.

![Micro-USB connection diagram]

**Note:** If you’ll be using USB to connect to the Internet (and not just for charging your device), you must install the device driver. (See Making a Tethered Connection.)

Use the micro-USB cable when:

- You want to charge your device, but you don’t want to use the AC charger, or the AC charger is not available.
- Your computer does not have Wi-Fi.
- You want to prevent any other devices from using the hotspot. (See Disable Wi-Fi When Tethering Device (Connected Through USB).)

**Note:** You can also block individual devices. See Displaying and Blocking Currently Connected Devices (Block List) and Allowing or Denying Computers Access to the Network (MAC Filter).

To connect your device to your computer:

1. Insert the larger (Type A) end of the micro-USB cable into your computer.
2. Insert the other end of the cable into the micro-USB port on the side of your device.
**Note:** If you’re having problems, see Cannot Connect Through USB.

**Making a Tethered Connection**
Your device supports a direct connection through a USB cable to a Windows or Mac computer. (This is commonly referred to as a “tethered” connection.)

*Note:* If you’ll be using USB for data transfer (and not just for charging your device), you must install the device driver. (See “Windows” or “Mac”, below.) No Installation CD is required – your device supports the TRU-Install feature.

*Note:* If you’re using Mac OS X 10.4.x, after you connect your device you may see a warning message that your computer is running on UPS backup battery and that you should perform a computer shutdown. You can continue with your work. To prevent this message from being displayed, install the device driver (see “Mac”, below).

**Windows**
To install the device driver on Windows:

1. Make sure your device is turned on.
2. Connect your device to your computer through the micro-USB cable.
3. If the TRU-Install window is not displayed, in Windows Explorer browse to the TRU Install entry ![TRU-Install](image) (under My Computer), then browse to the Win folder and run Setup.exe.

   – or –

   If the AutoPlay window opens, click Run setup.exe.
4. In the TRU-Install window, click OK.
5. Follow the onscreen instructions.
Mac

To install the device driver on Mac:

1. Make sure your device is turned on.
2. Connect your device to your computer through the micro USB cable.
3. In the window that appears, double-click the .pkg file.
4. Follow the onscreen instructions.
5. When prompted for your password, enter your Mac password.

**TRU-Install**

TRU-Install is a feature that installs the necessary drivers the first time you connect your device to your Windows or Mac computer through the micro USB cable. (For details, see Making a Tethered Connection.) An installation CD is not required.

TRU-Install is enabled by default.

To change the setting:

1. In the address bar of your Web browser, type one of the following:
   - `http://minglehotspot`
   - `http://192.168.1.1`

2. In the **Sign In** field, enter the Mingle Manager administrator password (1–31 letters, numbers, and symbols). (The default password is “password”.)

3. Click **Settings > General > Software and Reset**.

4. Select (to enable TRU-Install) or clear (to disable TRU-Install) the checkbox labeled “Install driver when connecting to Windows or MAC computers with a USB cable.”
**LCD Interface**

Access your device and connection information, and configure device settings from the LCD interface.

If the LCD is not lit, see “Turning Your Device On” in Turning Your Device On and Off.

**Interpreting the LCD**

The LCD home screen shows icons and text that reflect the status of your device and your connection, and screen elements that link to other configuration screens.

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Signal strength</td>
</tr>
<tr>
<td>2</td>
<td>Network type (3G, LTE)</td>
</tr>
</tbody>
</table>
| 3    | Data transfer indicator (WAN traffic – upload (send) / download (receive))  
Icons are solid when data is transferring, and hollow when no data is transferring. |
| 4    | Network carrier name |
| 5    | Alerts – Indicates number of alerts to be read. Only appears when at least one alert is active.  
(See Alerts Screen.) |
| 6    | GPS indicator – Appears only when GPS tracking is on. The icon blinks continually when the GPS mode is Continuous, or while searching for satellites when the GPS mode is One-time. (See GPS Settings.) |

1.25 GB Data Used
<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>USB tether indicator – Appears when your device is tethered to a computer (See Connecting Through USB.)</td>
</tr>
<tr>
<td>8</td>
<td>Battery status (See Battery Information and Settings.)</td>
</tr>
<tr>
<td>9</td>
<td>Number of connected devices – The number of devices connected to the hotspot via Wi-Fi is indicated in the circle that appears over the Wi-Fi Status icon.</td>
</tr>
<tr>
<td>10</td>
<td>Wi-Fi Status – Indicates whether Wi-Fi is active (blue) or sleeping (gray).</td>
</tr>
<tr>
<td>11</td>
<td>Main Wi-Fi network name and password.</td>
</tr>
<tr>
<td>12</td>
<td>Data usage – Indicates the amount of data used. (See Data Usage.)</td>
</tr>
</tbody>
</table>

**Tip:** Information on the LCD can also be viewed and configured in the Mingle Manager interface. See Mingle Manager (Browser) Interface.

## LCD Information Screens

The LCD home screen links to several screens used to configure your device.

- Alerts – Show network and device messages. See Alerts Screen for details.
- Guest Wi-Fi – Turn Guest Wi-Fi on/off. See Guest Wi-Fi Screen.
- About – View device details.

**Tip:** Information on the LCD can also be viewed and configured in the Mingle Manager interface. See Mingle Manager (Browser) Interface.

To move between these screens:

- Click the power button once to move between screens.
- On the Alerts and About screens, click the power button twice to see additional pages.

### Alerts Screen

The Alerts screen shows network or device alerts for situations that require your attention.
SIM NOT INSTALLED

Please insert a SIM or check to make sure the SIM is installed properly.

To read more alerts:

■ If there is more than one alert to read, double-click the power button to view the next alert.

To switch to the Guest Wi-Fi screen:

■ Click the power button once.

**Guest Wi-Fi Screen**

The Guest Wi-Fi screen allows you to turn the Guest Wi-Fi network on or off, and (when it is on) shows the Guest Wi-Fi network’s name and password.

**Name:** SprintGuest391

**Password:** 14557A2B

To turn Guest Wi-Fi on or off:

■ Double-click the power button.

To switch to the About screen:

■ Click the power button once.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCD Interface</td>
<td>31</td>
</tr>
</tbody>
</table>
### Item | Description
--- | ---
Name | This is the name that identifies your Guest Wi-Fi network and is visible to other Wi-Fi-enabled devices. See Change Wi-Fi Network Names and Passwords.
Password | This is the password that other Wi-Fi enabled devices need to connect to the Guest Wi-Fi network. See Change Wi-Fi Network Names and Passwords.
On/Off | Turn the Guest Wi-Fi network on or off. See Setting up a Guest Wi-Fi Network.

### About Screen
The About screen shows detailed information about your mobile hotspot and account in a series of pages.

**MEID:** 35772505000151  
**ICCID:**  
**Activation:** Activated  
**Mingle Manager:**  
[http://minglehotspot](http://minglehotspot)

To cycle through the About pages:

- Double-click the power button to view the next page.

To switch to the home screen:

- Click the power button once.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEID</td>
<td>The MEID of your hotspot (displayed on the packaging and inside the battery compartment).</td>
</tr>
<tr>
<td>ICCID</td>
<td>The serial number of the SIM.</td>
</tr>
<tr>
<td>Activation status</td>
<td>The hotspot’s activation status (Activated / Deactivated) and the date and time the status changed.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Mingle Manager</td>
<td>The web page’s URL.</td>
</tr>
<tr>
<td>Wi-Fi name</td>
<td>The hotspot’s Main Wi-Fi network name. See <a href="#">Change Wi-Fi Network Names and Passwords</a>.</td>
</tr>
<tr>
<td>MAC Address</td>
<td>The hotspot’s Media Access Control (MAC) address.</td>
</tr>
<tr>
<td>PRL</td>
<td>Preferred Roaming List version number.</td>
</tr>
<tr>
<td>My number</td>
<td>The hotspot’s telephone number.</td>
</tr>
<tr>
<td>FW Version</td>
<td>The hotspot’s firmware version.</td>
</tr>
<tr>
<td>FW Build Date</td>
<td>The date the firmware version was created.</td>
</tr>
<tr>
<td>Model</td>
<td>The manufacturer’s name for your device.</td>
</tr>
<tr>
<td>PRI Version</td>
<td>The PRI version for the hotspot’s routing hardware. The PRI (Product Release Instructions) is a file that contains the settings used to configure wireless products for a particular service provider, customer, or purpose.</td>
</tr>
<tr>
<td>Web App Version</td>
<td>The web page version.</td>
</tr>
<tr>
<td>Temperature</td>
<td>The current temperature of the battery.</td>
</tr>
<tr>
<td>Mobile apps</td>
<td>Reminder that a mobile application is available for your smartphone or tablet.</td>
</tr>
</tbody>
</table>
**Mingle Manager (Browser) Interface**

Access your device and connection information, and configure device settings from the Mingle Manager (browser) interface.

**Home Page**

The home page is the entry page for the Mingle Manager interface.

You can:

- View your data usage and status information for your data connection.
- Manage your mobile broadband network connection and Wi-Fi connections.
- View alert messages.

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Home page – Click to view the Home Page.</td>
</tr>
<tr>
<td>Item</td>
<td>Status</td>
</tr>
<tr>
<td>------</td>
<td>--------</td>
</tr>
<tr>
<td>2</td>
<td>Devices page – Click to view the <a href="#">Devices Page</a>.</td>
</tr>
<tr>
<td>3</td>
<td>Wi-Fi page – Click to view the <a href="#">Wi-Fi Page</a>.</td>
</tr>
<tr>
<td>4</td>
<td>GPS page – Click to view the <a href="#">GPS Page</a>.</td>
</tr>
<tr>
<td>5</td>
<td>Settings page – Click to view the <a href="#">Settings Page</a>.</td>
</tr>
<tr>
<td>6</td>
<td>Mobile broadband connection information – See <a href="#">Mobile Broadband Information and Settings</a>.</td>
</tr>
<tr>
<td>7</td>
<td>List of devices connected to the hotspot’s Main or Guest Wi-Fi networks.</td>
</tr>
<tr>
<td>8</td>
<td>Your Wi-Fi Details – Your Main Wi-Fi network’s name and password.</td>
</tr>
<tr>
<td>9</td>
<td>Mobile app store link – Click to view the NETGEAR Mobile Application Page in a new browser window or tab. Use the links on that page to download mobile Mingle Manager apps for your Apple, Android, or Kindle device.</td>
</tr>
<tr>
<td>10</td>
<td>Twitter® – Click to view the AirCard Twitter feed in a new browser window or tab. (Your device must be connected to the network for this option to work.)</td>
</tr>
<tr>
<td>11</td>
<td>Facebook® – Click to view the AirCard Facebook page in a new browser window or tab. (Your device must be connected to the network for this option to work.)</td>
</tr>
<tr>
<td>12</td>
<td>Important Information – Click to read important safety information about the Mingle Mobile Hotspot.</td>
</tr>
<tr>
<td>13</td>
<td>Language – Switch between English and Spanish.</td>
</tr>
<tr>
<td>14</td>
<td>About – Information about your account, the device, and network status.</td>
</tr>
<tr>
<td>15</td>
<td>Support – Links to online resources (user guide, online help, etc.).</td>
</tr>
<tr>
<td>16</td>
<td>Estimated data usage for current session.</td>
</tr>
<tr>
<td>17</td>
<td>Estimated data usage for since last time counters were reset. For more details, click <a href="#">Check Carrier Usage</a>.</td>
</tr>
<tr>
<td>18</td>
<td>My Account Summary – Basic information about your Virgin Mobile data plan. For more details, click <a href="#">Manage My Account</a> to connect to your account at <a href="http://virginmobileusa.com">virginmobileusa.com</a>.</td>
</tr>
</tbody>
</table>
### Table

<table>
<thead>
<tr>
<th>Item</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alerts</td>
<td>Alerts appear above the Data Usage area and remain until issues are resolved.</td>
</tr>
</tbody>
</table>

### Displaying the Mingle Manager Home Page

There are two ways you can display the home page of your device.

**Note:** You can display the home page only when your device is turned on and you have established a connection to it (through Wi-Fi or through the micro-USB cable).

To display the home page, type one of the following in the address bar of your Web browser:

- http://minglehotspot
- http://192.168.1.1

**Note:** If you’re using the Google Chrome Web browser, make sure your browser navigates to the address you typed instead of performing a Google search.

If your Web browser displays an error message, see [Cannot Display the Home Page](#).

### Logging In as an Administrator

Logging in to the home page allows you to view more detailed information about your device, and to manage its settings, broadband network connection, and Wi-Fi networks.

**Note:** To log in to the home page, your computer must be tethered to your device, or connected to your device’s Main Wi-Fi network. You cannot log in over the Guest Wi-Fi network.

**Note:** If you don’t log in, you can only view the current network connection status and a list of devices connected to the Main and Guest Wi-Fi networks.

**Note:** To be able to make changes to your device’s settings, you must be connected to your device via the Main Wi-Fi network, or via a tethered connection.

To log in:

1. In the address bar of your Web browser, type one of the following:
   - http://minglehotspot
   - http://192.168.1.1

2. In the **Sign In** field, enter the Mingle Manager administrator password (1–31 letters, numbers, and symbols). (The default password is “password”. It’s recommended you change the password, if you haven’t already. See [Changing the Mingle Manager Password](#).)
3. Click Sign In.

After a period of inactivity, you will be automatically logged off (timeout security feature).

**Data Usage**

Data usage estimates are shown in the Data Usage section of the home page.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billing cycle</td>
<td>Total amount of data used since the last reset.</td>
</tr>
<tr>
<td>Data Used</td>
<td>Total amount of data used since the last reset.</td>
</tr>
</tbody>
</table>

**Note:** Data usage amounts are approximate and should not be used for billing purposes. For accurate data usage amounts, check with Virgin Mobile or click the Check Carrier Usage link in the My Account Summary section to view your account details.

The Data Usage section displays cumulative statistics and current session statistics.


<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reset button</td>
<td>Click to set the displayed monthly usage values to 0 MB.</td>
</tr>
<tr>
<td>Important:</td>
<td>This does not reset the actual data usage for the billing cycle.</td>
</tr>
<tr>
<td>Used since last reset</td>
<td>The amount of data sent and received during the billing period for each network type.</td>
</tr>
<tr>
<td>Session</td>
<td></td>
</tr>
<tr>
<td>Used</td>
<td>Data amount used since your device connected to the network.</td>
</tr>
<tr>
<td>Elapsed time</td>
<td>Length of time that your device has been connected to the network.</td>
</tr>
</tbody>
</table>

My Account Summary
The My Account Summary section shows basic information about your plan, and includes a link to see more detailed information.

My Account

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>My number</td>
<td>4423336545</td>
</tr>
<tr>
<td>Manage My Account</td>
<td>Click to connect to your account at virginmobileusa.com.</td>
</tr>
</tbody>
</table>

The following information is displayed.

Alerts
The Alerts section shows network or device alerts for situations that require your attention.

Alerts (1)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Broadband Disconnected</td>
<td>Your data connection is disconnected. Connect</td>
</tr>
</tbody>
</table>

The following information is displayed for each alert.
The alerts disappear only when the issues they describe are resolved.

You can also view the alerts on the hotspot’s LCD. See Alerts Screen.

See also Alerts for a list of alerts you may encounter and the corrective actions required.

**Status (Connection Details)**

The Status section shows details about your mobile broadband service and connection state, your hotspot’s battery charge level, and lists the devices that are connected to the Main and Guest Wi-Fi networks.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signal strength</td>
<td>The more bars, the stronger the signal. See Signal Information for details.</td>
</tr>
<tr>
<td>Network carrier name</td>
<td>Name of the available network. For example, “Virgin Mobile”.</td>
</tr>
<tr>
<td>Network type</td>
<td>LTE, 3G</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Send / Receive indicators</td>
<td><img src="up" alt="Up (sending data)" /> / Down (receiving data). These indicators appear when you are connected to the mobile network. The indicators are solid when transferring data, and hollow when no data is being transferred.</td>
</tr>
<tr>
<td>Connect / Disconnect button</td>
<td>Click this button to connect or disconnect your device from the mobile network.</td>
</tr>
<tr>
<td>Battery charge level</td>
<td>Indicates the remaining capacity of the battery, and its charging state. See Battery Information and Settings.</td>
</tr>
</tbody>
</table>

**Connected Devices**

- **Main Wi-Fi** – A list of devices currently connected to the Main Wi-Fi network.
- **Guest Wi-Fi** – A list of devices currently connected to the Guest Wi-Fi network.

You can click any of the device names to view their details, or to block them from using your network. See Displaying and Blocking Currently Connected Devices (Block List).

**Devices Page**

The Devices page lets you see lists of devices that are connected to your Main and Guest Wi-Fi networks.

**Note:** These lists are also shown in the Connected Devices section on the left side of the page.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Devices.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Wi-Fi</td>
<td>A list of devices currently connected to the Main Wi-Fi network.</td>
</tr>
<tr>
<td>Guest Wi-Fi</td>
<td>A list of devices currently connected to the Guest Wi-Fi network.</td>
</tr>
</tbody>
</table>

You can click any of the device names to view detailed information, and to block them from using your network. See Displaying and Blocking Currently Connected Devices (Block List).

**Wi-Fi Page**

From the Wi-Fi page, you can configure the Wi-Fi network, including Wi-Fi security.

**Connect Tab**

From the Connect tab of the Wi-Fi page, you can configure access to your Main and Guest Wi-Fi networks.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > Connect.

![Mingle Manager Interface](image)

You can:

- Edit the Main or Guest Wi-Fi names and passwords. See Change Wi-Fi Network Names and Passwords.
- Turn the Guest Wi-Fi network on or off. See Setting up a Guest Wi-Fi Network.
- Connect devices using WPS. See Connecting Through WPS.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>This is the name that identifies your Main Wi-Fi network and is visible to other Wi-Fi-enabled devices. See Change Wi-Fi Network Names and Passwords.</td>
</tr>
<tr>
<td>Password</td>
<td>This is the password that other Wi-Fi enabled devices need to connect to the Main Wi-Fi network. See Change Wi-Fi Network Names and Passwords.</td>
</tr>
<tr>
<td>WPS</td>
<td>Connect a device to the Main Wi-Fi network using WPS. See Connecting Through WPS.</td>
</tr>
<tr>
<td>Guest Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Turn Off / Turn On | Click this button to turn the Guest Wi-Fi network on or off.  
**Note:** The rest of the Guest Wi-Fi fields / buttons appear only when the Guest Wi-Fi network is on. |
| Name      | This is the name that identifies your Guest Wi-Fi network and is visible to other Wi-Fi-enabled devices. See Change Wi-Fi Network Names and Passwords. |
| Password  | This is the password that other Wi-Fi enabled devices need to connect to the Guest Wi-Fi network. See Change Wi-Fi Network Names and Passwords. |
| WPS       | Connect a device to the Guest Wi-Fi network using WPS. See Connecting Through WPS. |

**Options Tab**

From the **Options** tab of the **Wi-Fi page**, you can configure your Wi-Fi network’s connection parameters and security, and additional Wi-Fi options.

1. Log in to the home page. (See **Logging In as an Administrator**.)

---

Mingle Manager (Browser) Interface 43
2. Click **Wi-Fi > Options**.

You can:

- Edit the Main or Guest Wi-Fi names and passwords. See [Change Wi-Fi Network Names and Passwords](#).
- Limit the number of devices that can connect to the Main and Guest Wi-Fi networks.
- Configure your Wi-Fi network’s connection parameters and security, and additional Wi-Fi options.

**Note:** For some of these Wi-Fi settings, if you change them, all connected devices will be disconnected and have to reconnect after the settings are saved.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
</table>

Mingle Manager (Browser) Interface
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi Name</td>
<td>This is the name that identifies your Main Wi-Fi network and is visible to other Wi-Fi-enabled devices. (See Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>Wi-Fi Password</td>
<td>This is the password that other Wi-Fi enabled devices need to connect to the Main Wi-Fi network. (See Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>Guest Wi-Fi</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi network name</td>
<td>This is the name that identifies your Guest Wi-Fi network and is visible to other Wi-Fi-enabled devices. (See Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>Password</td>
<td>This is the password that other Wi-Fi enabled devices need to connect to the Guest Wi-Fi network. (See Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>Generate a new password each time I turn on the Guest Wi-Fi</td>
<td>If selected, a random password is used each time Guest Wi-Fi is restarted. See Randomizing the Guest Wi-Fi Password.</td>
</tr>
<tr>
<td>Max Wi-Fi</td>
<td></td>
</tr>
</tbody>
</table>
| Max Wi-Fi | You can limit the total number of Wi-Fi devices (1-10) that can connect to the Main and Guest Wi-Fi networks. See Setting the Maximum Number of Wi-Fi Devices.  

**Note:** If you change Max Wi-Fi the Main Wi-Fi and Guest Wi-Fi values adjust automatically. |
| Main Wi-Fi / Guest Wi-Fi | Set the maximum number of Wi-Fi devices that can connect to each of the Wi-Fi networks (Main and Guest). The total is limited to the Max Wi-Fi value.  

Click `<` to increase the Main Wi-Fi number, or `>` to increase the Guest Wi-Fi number. |
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wi-Fi Info on Home</td>
<td>Choose whether to show or hide the Wi-Fi network name and password on the hotspot’s home screen. (Choose <strong>Hide</strong> if you want to be sure unwanted users can’t look at the home screen and log in.) See Displaying Main Wi-Fi Network Name and Password on LCD Home Screen.</td>
</tr>
<tr>
<td>USB Tether</td>
<td>Choose whether the Wi-Fi radio turns off or stays on when your device is tethered to a computer. See Disable Wi-Fi When Tethering Device (Connected Through USB).</td>
</tr>
<tr>
<td>Connection</td>
<td></td>
</tr>
<tr>
<td>Mode</td>
<td>This setting determines the type of wireless devices that can connect to your network. Recommended options:</td>
</tr>
<tr>
<td></td>
<td>• <strong>802.11 G</strong> – Choose only if you’re certain that all of the Wi-Fi devices used with your hotspot support 802.11 G. This option ensures faster Wi-Fi speeds.</td>
</tr>
<tr>
<td></td>
<td>• <strong>802.11 B/G/N</strong> or <strong>802.11 B/G</strong> – Choose if you’re not sure which modes the Wi-Fi devices used with your hotspot support.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If you change this value to <strong>802.11 B/G/N</strong> and the specified Wi-Fi security Encryption type is not supported by this value, the security Encryption type may change to <strong>WPA/WPA2 Personal</strong>.</td>
</tr>
<tr>
<td>Wi-Fi Channel</td>
<td>This is the active channel of the Wi-Fi access point. If your network is having performance issues (possibly caused by other Wi-Fi networks in the vicinity using the same channel), try a different Wi-Fi channel. See Wi-Fi Channel.</td>
</tr>
<tr>
<td>RTS Threshold</td>
<td>This setting specifies the smallest packet size, in bytes, for which RTS/CTS (Request to Send/Clear to Send) handshaking is used. The recommended value is 2347. Change this value only if you’re experiencing inconsistent data flow. Make only minor changes to this value.</td>
</tr>
<tr>
<td>Fragmentation Threshold</td>
<td>This setting specifies the largest allowable size, in bytes, for a packet. If the packet is larger than this, it is fragmented into multiple packets before it is transmitted. To prevent poor network performance, it’s recommended to keep this value as large as possible (up to 2346).</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Security</td>
<td></td>
</tr>
<tr>
<td>Broadcast Network Name</td>
<td>If broadcast is enabled (Show), the wireless network is displayed in the list of Wi-Fi networks available in the local area. For increased security, set this field to Hide. You will need to give the Wi-Fi network name (Main or Guest) to the people who will be accessing your network, and WPS will not be available.</td>
</tr>
<tr>
<td>Encryption</td>
<td>The type of security used by the Main Wi-Fi network. See Wi-Fi Security.</td>
</tr>
<tr>
<td>Guest Encryption</td>
<td>The type of security used by the Guest Wi-Fi network. See Wi-Fi Security.</td>
</tr>
</tbody>
</table>

**MAC Filter Tab**

MAC (Media Access Control) filtering can prevent unauthorized wireless devices from connecting to your network.

The MAC filter is used to grant (“white list”) or block (“black list”) wireless devices access to the Wi-Fi and mobile broadband (3G, LTE) networks. Access is based on the MAC address of each wireless device.

MAC filtering increases security of your network. You can give access to your network, based on the MAC address of the wireless devices. This makes it harder for a hacker to use a MAC address to access your network.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > MAC Filter.

You can:
■ Turn MAC filtering off ("None") or on ("Black List" or "White List").

■ Add or remove a device from the list. (See “Specifying Computers That Can Access the Network” and “Specifying Computers That Are Not Allowed to Access the Network” in "Allowing or Denying Computers Access to the Network (MAC Filter)".

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC Filter Mode</td>
<td>• None – Any device can connect to the Wi-Fi networks.</td>
</tr>
<tr>
<td></td>
<td>• Black List – The listed devices will not be able to connect to the Wi-Fi networks.</td>
</tr>
<tr>
<td></td>
<td>• White List – Only the listed devices will be allowed to connect to the Wi-Fi networks.</td>
</tr>
<tr>
<td>Black List or White List</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>A description of the device (the owner’s name, the device’s purpose, etc.)</td>
</tr>
<tr>
<td>MAC Address</td>
<td>The device’s MAC address.</td>
</tr>
</tbody>
</table>

**GPS Page**

From the GPS page, you can obtain your current location coordinates (latitude, longitude, altitude, etc.).

You can also enable or disable GPS tracking, and choose the tracking method being used (one-time or continuous).

1. Log in to the home page. (See "Logging In as an Administrator").
2. Click GPS.

You can:

- Turn GPS on/off
- Start or Stop tracking (if GPS Mode is Continuous)
- Update the current location information (if GPS Mode is One-time)

**Note:** The first time that you access GPS, you will be prompted to read and accept the Location-Based Services (LBS) end user license agreement. You must accept the agreement before you can use the GPS feature.

**Note:** For best results, minimize the number of obstructions between your device and the GPS satellites.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Most recent position fix</td>
<td></td>
</tr>
</tbody>
</table>

**Update location / Cancel** or **Start / Stop**

If the GPS Mode is:

- One-time – Click **Update location** to get a location fix, or click **Cancel** to stop waiting for the fix to complete.

- Continuous – Click **Start** to begin tracking and refreshing the location fix information regularly, or click **Stop** to stop tracking.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Message indicating what the GPS system is doing (For example, “Tracking a fix”, “Searching for satellites”, “Inactive”)</td>
</tr>
<tr>
<td>Time of fix</td>
<td>This is the date and time that the last fix was taken.</td>
</tr>
<tr>
<td>Latitude</td>
<td>Latitude at time of last fix. (For example, “33.1349”)</td>
</tr>
<tr>
<td>Longitude</td>
<td>Longitude at time of last fix. (For example, “-117.2805”)</td>
</tr>
<tr>
<td>Altitude</td>
<td>Elevation at time of last fix. (For example, “40 meters”)</td>
</tr>
<tr>
<td>Speed</td>
<td>Speed at which device was moving at time of last fix. (For example, “3.1 mph”)</td>
</tr>
<tr>
<td>Heading</td>
<td>Direction in which device was moving at time of last fix, using 360° compass (0 = North, 90 = East, 180 = South, 270 = West)</td>
</tr>
<tr>
<td>Satellites</td>
<td>The number of satellites used to get the last fix.</td>
</tr>
</tbody>
</table>

**GPS Settings**

- **Enable GPS**
  - Turns the GPS service on or off. See Enabling / Disabling GPS.
  - **Note**: For best results, minimize the number of obstructions between your device and the GPS satellites.

- **Use Metric units**
  - This setting specifies whether to use metric units when displaying the GPS results (for example, for altitude and speed). See Using Metric Units.

- **GPS mode**
  - This setting determines how often your device should obtain a fix. See Setting the GPS Mode.
    - **One-time** – A single fix is used. Use this option if you’ll be using your device at the same location.
    - **Continuous** – Fixes are obtained every few seconds (also known as auto-tracking). This is useful for turn-by-turn (TBT) navigation applications, such as driving directions, and for NMEA-enabled applications.

**Settings Page**

From the Settings page, you can configure your device, network settings, and router settings.
**General > Device Tab**

From the **General > Device** tab of the **Settings** page, you can configure your device’s display, sleep settings, Mingle Manager (web browser) URL and Mingle Manager administrator password.

1. Log in to the home page. (See **Logging In as an Administrator**.)

2. Click **Settings > General > Device**.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td></td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Default Language</td>
<td>Choose the default language used for the Mingle LCD display and the Mingle Manager (English or Español).</td>
</tr>
<tr>
<td></td>
<td>See Interface Language.</td>
</tr>
<tr>
<td>Screen</td>
<td></td>
</tr>
<tr>
<td>Screen Brightness</td>
<td>Set the brightness of the LCD to <strong>Bright</strong> or <strong>Dim</strong>. (Use Dim to make your battery last longer.)</td>
</tr>
<tr>
<td></td>
<td>See Setting the LCD Brightness.</td>
</tr>
<tr>
<td>Screen Timeout</td>
<td></td>
</tr>
<tr>
<td>Timeout on Battery</td>
<td>The length of time the LCD will display, while on battery power, before turning off. Choose the shortest period to make your battery last longer. See Setting the LCD Timeout.</td>
</tr>
<tr>
<td>Timeout on AC</td>
<td>The length of time the LCD will display, while using the AC charger, before turning off. Choose the shortest period to make your battery last longer. See Setting the LCD Timeout.</td>
</tr>
<tr>
<td>Timeout on USB</td>
<td>The length of time the LCD will display, while tethered to the computer, before turning off. Choose the shortest period to make your battery last longer. See Setting the LCD Timeout.</td>
</tr>
<tr>
<td>Sleep</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi Sleep on Battery</td>
<td>Turns off the Wi-Fi radio if no devices have been connected for this period of time, while on battery power. (Choose 5 minutes to make your battery last longer.) See Setting the Sleep (Inactivity) Timer.</td>
</tr>
<tr>
<td>Wi-Fi Sleep on AC</td>
<td>Turns off the Wi-Fi radio if no devices have been connected for this period of time, while connected to the AC charger. (Choose 5 minutes to make your battery last longer.) See Setting the Sleep (Inactivity) Timer.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>Wi-Fi Sleep on USB</strong></td>
<td>Turns off the Wi-Fi radio if no devices have been connected for this period of time, while tethered to the computer. (Choose 5 minutes to make your battery last longer.) See Setting the Sleep (Inactivity) Timer.</td>
</tr>
<tr>
<td>Homepage</td>
<td></td>
</tr>
<tr>
<td><strong>Mingle Manager</strong></td>
<td>The URL used to show the homepage. See Changing the Mingle Manager URL.</td>
</tr>
<tr>
<td><strong>Show Password \ Hide Password</strong></td>
<td>Shows or hides the password on this screen.</td>
</tr>
<tr>
<td><strong>Mingle Manager Password</strong></td>
<td>The password used to show the homepage. See Changing the Mingle Manager Password</td>
</tr>
</tbody>
</table>

**General > Software and Reset Tab**

From this tab, you can save your current device settings and restore them later, update your software, reset your device to default settings, and set your device startup options.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > General > Software and Reset**.

You can:

- Backup and restore your hotspot’s configuration, if needed. See [Exporting and Importing Settings](#).
- Update your device’s software. See [Update Mobile Hotspot Software and Firmware](#).
- Reset some or all of your device’s settings. See [Resetting to Factory Default Settings](#), [Resetting Device Settings Only](#) and [Clearing Account Details Only](#).
- Configure the hotspot to install tethering drivers (if needed) when device is connected via USB to a Windows or Mac system. See [TRU-Install](#).

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Download / Backup Settings</strong></td>
<td>Click <strong>Save</strong> to make a copy (export) of the hotspot’s current configuration, so that you can restore it later if needed. See <a href="#">Exporting Settings</a>.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Restore Settings</td>
<td>Click <strong>Choose file</strong> to use a previously saved copy of your device configuration. See <strong>Importing Settings</strong>.</td>
</tr>
</tbody>
</table>
| Software Update      | Click **Check for update** to see if a new version of your device’s software has been released, and if there is, download and install it. The last time you checked is shown on the screen (**Last checked at**). See **Update Mobile Hotspot Software and Firmware**.  

**Note:** Software downloads count against your plan’s data limit. |
| Reset                | - **Factory Reset** – Click to reset your device to factory default settings and clear your account details. See **Resetting to Factory Default Settings**. (You can only do this with assistance from Virgin Mobile.)  

- **Settings Reset** – Click to reset your device to factory default settings, but leave your Virgin Mobile account details unchanged. See **Resetting Device Settings Only**.  

- **Clear Programming** – Click to clear your account details. See **Clearing Account Details Only**. |
| Startup options      | Select the checkbox to install tethering drivers (if needed) when device is connected via USB to a Windows or Mac system. See **TRU-Install**. |

**General > System Logs Tab**

Technical support staff may need you to configure system logging in this tab for the purpose of error diagnosis.

**Note:** You should only adjust settings in this tab under the direction of technical support staff.

1. Log in to the home page. (See **Logging In as an Administrator**.)
2. Click **Settings > General > System Logs**.

You can:

- Enable logging
- Clear logs
- Download logs

**Network > Preferences Tab**

From this tab, you can configure your device’s configuration for selecting networks, and receive network configuration updates from Virgin Mobile.

1. Log in to the home page. (See **Logging In as an Administrator**.)

2. Click **Settings > Network > Preferences**.
You can:

- Configure network selection mode
- Check the network for a new Preferred Roaming List
- Update network profile

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network Mode</td>
<td>The type of network that your device can connect to. See Setting the Allowed Network Mode.</td>
</tr>
<tr>
<td>Update PRL</td>
<td>Click to check if a new PRL (Preferred Roaming List) is available on the network, and use it to update your device.</td>
</tr>
<tr>
<td>Update Profile</td>
<td>Click to update network profile.</td>
</tr>
<tr>
<td>Advanced Settings</td>
<td>Use only when instructed by Virgin Mobile.</td>
</tr>
</tbody>
</table>

**Network > APN (Access Point Name) Tab**

To connect to a different carrier’s network, your device must be configured with an Access Point Name (APN) for that carrier. The APN is checked by the carrier to determine the type of network connection to establish.

**Note:** Your NETGEAR Mingle Mobile Hotspot comes with the APN for Virgin Mobile preconfigured.

In this tab, you can add (or modify) APNs for the networks you want to connect to.

1. Log in to the home page. (See Logging In as an Administrator.)
To add (or modify) an APN, see Configuring Access Point Names.

The list of all APNs that have been set up includes the following information.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active</td>
<td>The APN currently in use. Only one APN can be marked as active.</td>
</tr>
<tr>
<td>Name</td>
<td>Network carrier name (for example, “Virgin Mobile”).</td>
</tr>
<tr>
<td>APN</td>
<td>The operator’s access point name (obtained from the operator).</td>
</tr>
<tr>
<td>Username</td>
<td>If required, the username (obtained from the operator) used to connect</td>
</tr>
<tr>
<td></td>
<td>to the APN.</td>
</tr>
<tr>
<td>Password</td>
<td>If required, the password (obtained from the operator) used to connect</td>
</tr>
<tr>
<td></td>
<td>to the APN.</td>
</tr>
<tr>
<td>Authentication</td>
<td>The network authentication code (None, PAP, CHAP, PAP or CHAP).</td>
</tr>
</tbody>
</table>

**Network > SIM Security Tab**

If you are using a SIM that has security enabled, you can disable SIM Security from this tab.

This tab shows the current status of this security feature, and allows you to disable SIM security if it has been enabled.

**Note:** The SIM PIN is required to disable SIM Security.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Network > SIM Security**.

![Mingle Manager Interface](image)

3. If the SIM has security enabled, SIM Security will be Active. Click **Disable** to disable SIM security.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIM Security</td>
<td>The current state of the SIM PIN feature (Inactive or Active). Click <strong>Disable</strong> to disable SIM security.</td>
</tr>
</tbody>
</table>

**Network > Status Details Tab**

This tab shows you details about the current mobile broadband connection (3G, LTE).

1. Log in to the home page. (See **Logging In as an Administrator**.)
2. Click **Settings > Network > Status Details**.

The information that is displayed depends on your current connection.

### 4G/LTE Details

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Indicates whether you are connected to an LTE network.</td>
</tr>
<tr>
<td>PS service type</td>
<td>Indicates the LTE service type.</td>
</tr>
<tr>
<td>RSRP</td>
<td>The signal strength of the LTE network. (Reference Signal Received Power)</td>
</tr>
<tr>
<td>RSRQ</td>
<td>The signal quality of the LTE network (Reference Signal Received Quality). RSRQ is the ratio between the RSRP and the Received Signal Strength Indicator (RSSI).</td>
</tr>
</tbody>
</table>
### RS-SINR
Signal to Interference Noise Ratio based on Reference Signals (narrowband and wideband).

### Cell ID
The LTE cell that is currently serving the hotspot.

### TX Power
The transmitter power. A higher number is better.

### IP Address
The IP address of the 4G LTE connection.

### Channel UL
The channel that is used to upload to the 4G LTE network.

### Channel Number
The channel used by the 4G LTE radio. Technical support staff may request this value from you.

### IMSI
The International Mobile Station Identity is an identifier of a device on the network.

### Current radio band
The LTE band being used for the connection.

### Reject Code
Technical support staff may request this value from you.

### ICCID
The Integrated Circuit Card ID.

### 3G/LTE Details

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Indicates whether you are connected to a 3G network.</td>
</tr>
<tr>
<td>PS service type</td>
<td>Indicates the 3G service type (for example, CDMA, HRPD, CDMA_HRPD).</td>
</tr>
<tr>
<td>IP Address</td>
<td>The IP address of the 3G connection.</td>
</tr>
<tr>
<td>Coverage type</td>
<td>The type of 3G network available.</td>
</tr>
<tr>
<td>RSSI</td>
<td>Signal strength of the network.</td>
</tr>
<tr>
<td>Ec/Io</td>
<td>Dimensionless ratio of the average power of a channel, typically the pilot channel, to the total signal power.</td>
</tr>
<tr>
<td>MDN</td>
<td>Mobile Directory Number. This is your 10 digit telephone number.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>MSID</td>
<td>Mobile Station Identifier.</td>
</tr>
<tr>
<td>DRC Cover</td>
<td>Digital Rate Control Cover.</td>
</tr>
<tr>
<td>DRC Value</td>
<td>Digital Rate Control Value.</td>
</tr>
<tr>
<td>Channel</td>
<td>DRC Channel number.</td>
</tr>
<tr>
<td>PRL Version</td>
<td>Preferred Roaming List version. To update the PRL, see Network &gt; Preferences Tab.</td>
</tr>
<tr>
<td>1xRTT PN</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>EVDO PN</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>PRev</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Rx Power</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Serving SID</td>
<td>The Serving System ID identifies your home network area and is used to determine if you are ‘home’ or ‘roaming’.</td>
</tr>
<tr>
<td>NID</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Packet Zone ID</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Frame Error Rate</td>
<td>Used to determine the quality of a signal connection. Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Subnet Color Code</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>AN-AAA</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>Packet Error Rate</td>
<td>Technical support staff may request this value from you.</td>
</tr>
<tr>
<td>MIP Error Code</td>
<td>The Mobile IP Error Code. Technical support staff may request this value from you.</td>
</tr>
</tbody>
</table>

**Router > Basic Tab**

From this tab you can configure the router’s UPnP feature, LAN settings, and DMZ settings.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > Router > Basic.

3. You can make changes to any of these fields. When you finish, click Submit.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>UPnP</td>
<td>Current state of the Universal Plug and Play feature (On or Off). (See UPnP (Universal Plug and Play).)</td>
</tr>
<tr>
<td>LAN</td>
<td></td>
</tr>
<tr>
<td>IP Address</td>
<td>The routing hardware’s IP address on the LAN.</td>
</tr>
<tr>
<td>Netmask</td>
<td>The routing hardware’s internal LAN subnet mask.</td>
</tr>
<tr>
<td>USB IP Address</td>
<td>The IP address assigned to the hotspot by the computer to which it is tethered.</td>
</tr>
<tr>
<td>VPN Passthrough</td>
<td>VPN connections are enabled (On) or disabled (Off). See Enabling VPN Passthrough.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DHCP Server</td>
<td>This field enables (On) or disables (Off) DHCP. See DHCP.</td>
</tr>
<tr>
<td>DHCP IP Range</td>
<td>This specifies the starting and ending address of the range of IP addresses available for your device to dynamically (that is, not permanently) assign to computers connected to it. See DHCP.</td>
</tr>
<tr>
<td>DHCP lease time</td>
<td>This is the amount of time, in minutes, a computer can use its assigned IP address before it is required to renew the lease. After this time is up, the computer is automatically assigned a new dynamic IP address. See DHCP. Enter a number between 2 and 10080.</td>
</tr>
<tr>
<td>DNS mode</td>
<td>This specifies how the DNS servers (that the DHCP clients are to communicate with) are obtained.</td>
</tr>
<tr>
<td></td>
<td>✐ Manual – The routing hardware assigns DHCP clients the DNS servers specified in the DNS 1 and DNS 2 fields. Use this option to access a DNS server that provides customized addressing or if you have a local DNS server on your network.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> The DNS 1 and DNS 2 fields appear only if DNS Mode is Manual.</td>
</tr>
<tr>
<td>DNS mode</td>
<td>✐ Auto – The DNS server specified by Virgin Mobile is used.</td>
</tr>
<tr>
<td>DNS 1</td>
<td>Address of a manual DNS server. (This field appears only if DNS Mode is Manual.)</td>
</tr>
<tr>
<td>DNS 2</td>
<td>Address of a manual DNS server. (This field appears only if DNS Mode is Manual.)</td>
</tr>
<tr>
<td>DMZ</td>
<td></td>
</tr>
<tr>
<td>DMZ Enabled</td>
<td>Enable / disable demilitarized zone.</td>
</tr>
<tr>
<td>DMZ Address</td>
<td>If DMZ is enabled, this is the IP address of a single computer used to receive all unsolicited incoming connections.</td>
</tr>
</tbody>
</table>

**Router > Port Forwarding Tab**

Port forwarding lets you forward incoming traffic to specific ports and devices (per their local IP address) on your network. (Normally, incoming traffic is blocked.)
1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **Settings > Router > Port Forwarding**.

You can:

- Enable or disable port forwarding. See Enabling Port Forwarding.

**Note:** You must enable port forwarding before you can view and update the port forwarding list.

- Enter port forwarding details for an application. (See Enabling Port Forwarding for an Application.)

For example, you can configure port forwarding so that:

- You can access your Remote Desktop from the Internet (by specifying the WAN [public] IP address that your device is using).

- Internet users can access a Web, FTP, or email server, or gaming or Internet application hosted by your computer.

- Remove an application from the port forwarding list. (See Disabling Port Forwarding for an Application.)

**Note:** Port forwarding creates a security risk. When not required, port forwarding should be disabled.

**Note:** Port forwarding does not apply to normal browsing, file downloading, running most online games or other applications hosted on the Internet. (Some online games require port forwarding.)

The following information is displayed.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Forwarding</td>
<td>Indicates whether port forwarding is on (Enable) or off (Disable).</td>
</tr>
<tr>
<td></td>
<td>List of forwarded ports – This list appears only if port forwarding is on.</td>
</tr>
<tr>
<td></td>
<td>Each port displays:</td>
</tr>
<tr>
<td></td>
<td>Label A name describing the application using the port.</td>
</tr>
<tr>
<td></td>
<td>IP The IP address of the server being accessed.</td>
</tr>
<tr>
<td></td>
<td>Port The port that is forwarded. If the application uses more than one port,</td>
</tr>
<tr>
<td></td>
<td>each port must be forwarded separately.</td>
</tr>
<tr>
<td></td>
<td>Protocol The protocol (TCP, UDP, etc.) being used for this application.</td>
</tr>
</tbody>
</table>

**Router > Port Filtering Tab**

Port filtering lets you either allow (white list) or prevent (black list) which applications (for example, http, ftp, email servers) can access the Internet.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Port Filtering**.

You can:

- Enable port filtering. (See Port Filtering Panel: Enabling Port Filterings.)
- Add an application to a port filtering list. (See Port Filtering Panel: Enabling Port Filtering for an Application.)
- Remove an application from the port filtering list. (See Port Filtering Panel: Disabling Port Filtering for an Application.)

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port Filtering</td>
<td>Indicates which type of filtering is being used.</td>
</tr>
<tr>
<td></td>
<td>- <strong>No Filtering</strong> – All applications are allowed to access the Internet.</td>
</tr>
<tr>
<td></td>
<td>- <strong>Black List</strong> – Applications in the list are not allowed to access the</td>
</tr>
<tr>
<td></td>
<td>Internet.</td>
</tr>
<tr>
<td></td>
<td>- <strong>White List</strong> – Only the applications in the list are allowed to access</td>
</tr>
<tr>
<td></td>
<td>the Internet.</td>
</tr>
</tbody>
</table>

**Note:** Only one list can be active, either a Black List or a White List.

**Note:** The Black List and White List are separate – if you change the Port Filtering type, the corresponding list is displayed.

List of filtered ports – This list appears only if port filtering is on (black list or white list). Each port displays:

<table>
<thead>
<tr>
<th>Label</th>
<th>A name describing the application using the port.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>The port that the application uses to access the Internet.</td>
</tr>
<tr>
<td>Protocol</td>
<td>The protocol (TCP, UDP, etc.) being used by the application.</td>
</tr>
</tbody>
</table>

**Support Page**

This page provides links to resources that can help you use your device and manage your Virgin Mobile account.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click the **Support** link in the top right corner.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Guide</td>
<td>Open an online copy of this guide in a new Web browser window or tab. (You must be connected to the Internet to use this link.)</td>
</tr>
<tr>
<td>Online Help</td>
<td>View the topics of this user guide in an online help format.</td>
</tr>
<tr>
<td>Web</td>
<td>Visit the provided link to view the online support website where you can find a variety of resources to help you with your hotspot. (You must be connected to the Internet to use this link.)</td>
</tr>
<tr>
<td>Manage Account</td>
<td>Contact Virgin Mobile Customer Service by telephone (for business use or personal use).</td>
</tr>
<tr>
<td>Feedback</td>
<td>Send NETGEAR your comments on your device. See <strong>Feedback Page</strong>.</td>
</tr>
</tbody>
</table>

**About Page**

View information about your device and account.

1. Log in to the home page. (See **Logging In as an Administrator**.)
2. Click the **About** link in the top right corner.

You can:

- Save the image on this page to a file on your computer. Click **Save to file**.

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Account Details</strong></td>
<td></td>
</tr>
<tr>
<td><strong>My number</strong></td>
<td>The hotspot’s telephone number.</td>
</tr>
<tr>
<td><strong>MSID</strong></td>
<td>The Mobile Station ID associated with your phone number.</td>
</tr>
<tr>
<td><strong>MEID</strong></td>
<td>The MEID of your device (displayed on the packaging and inside the battery compartment).</td>
</tr>
<tr>
<td><strong>ICCID</strong></td>
<td>The serial number of the SIM.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>IMEI</td>
<td>The device’s unique IMEI (International Mobile Equipment Identity) code.</td>
</tr>
<tr>
<td>Wi-Fi Details</td>
<td></td>
</tr>
<tr>
<td>Wi-Fi name</td>
<td>The hotspot’s Main Wi-Fi network name. (See also Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>Wi-Fi password</td>
<td>The hotspot’s Main Wi-Fi network password. (See also Change Wi-Fi Network Names and Passwords.)</td>
</tr>
<tr>
<td>MAC Address</td>
<td>The MAC address of the LTE module. Each wireless device has a unique MAC address (assigned by its manufacturer).</td>
</tr>
<tr>
<td>Encryption</td>
<td>The security standard used for the Wi-Fi network. (See Wi-Fi Security.)</td>
</tr>
<tr>
<td>Wi-Fi Devices</td>
<td>Number of devices currently connected to the hotspot’s Wi-Fi networks.</td>
</tr>
<tr>
<td>Max Wi-Fi Devices</td>
<td>Maximum number of devices that can connect to the hotspot’s Main Wi-Fi network. (See also Setting the Maximum Number of Wi-Fi Devices.)</td>
</tr>
<tr>
<td>Max Guest Wi-Fi Devices</td>
<td>Maximum number of devices that can connect to the hotspot’s Guest Wi-Fi network. (See also Setting the Maximum Number of Wi-Fi Devices.)</td>
</tr>
<tr>
<td>Broadcast Network Name</td>
<td>Indicates whether Wi-Fi network name is being broadcast. (See Options Tab.) You could choose to not broadcast, and give the Wi-Fi name directly to users.</td>
</tr>
<tr>
<td>Firmware</td>
<td></td>
</tr>
<tr>
<td>FW Version</td>
<td>The hotspot’s firmware version.</td>
</tr>
<tr>
<td>FW Build Date</td>
<td>The date the firmware version was created.</td>
</tr>
<tr>
<td>Web App Version</td>
<td>The Mingle Manager version.</td>
</tr>
<tr>
<td>Bootloader Version</td>
<td>The version of the software that starts up your device.</td>
</tr>
</tbody>
</table>

Mingle Manager (Browser) Interface
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>The manufacturer’s name for your device.</td>
</tr>
<tr>
<td>Mingle Manager</td>
<td>URL for the Mingle Manager web app.</td>
</tr>
<tr>
<td>PRL Version</td>
<td>Preferred Roaming List version number.</td>
</tr>
<tr>
<td>Power State</td>
<td>The hotspot’s power state (Online, Offline).</td>
</tr>
<tr>
<td>Current temperature</td>
<td>The hotspot’s temperature. If your device is too warm, make sure the area is well-ventilated and air can circulate around your device to cool it. (See Environmental Specifications.)</td>
</tr>
<tr>
<td>Current voltage</td>
<td>The amount of power the hotspot is currently using.</td>
</tr>
<tr>
<td>Battery charge level</td>
<td>The amount of charge remaining in the battery. (See Charging the Battery.)</td>
</tr>
<tr>
<td>Battery status</td>
<td>The current operating condition of the battery (Charging, No Battery, Normal, Low, Critical).</td>
</tr>
<tr>
<td>Battery temperature</td>
<td>The battery’s temperature. If the battery is getting too warm, turn your device off and do not connect to the charger.</td>
</tr>
<tr>
<td>WWAN Info</td>
<td></td>
</tr>
<tr>
<td>Activation Date</td>
<td>The date that the hotspot was activated on the Virgin Mobile network.</td>
</tr>
<tr>
<td>Refurbished Date</td>
<td>The date that your device was refurbished (if applicable).</td>
</tr>
<tr>
<td>IP Address</td>
<td>The IP address of the WWAN radio.</td>
</tr>
<tr>
<td>User NAI</td>
<td>3G network identifier</td>
</tr>
<tr>
<td>LTE APN NI</td>
<td>4G network identifier</td>
</tr>
<tr>
<td>Lifetime LTE Transferred</td>
<td>The total amount of data sent and received while connected to LTE networks.</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Lifetime 3G Transferred</td>
<td>The total amount of data sent and received while connected to 3G networks.</td>
</tr>
<tr>
<td>Lifetime Total Transferred</td>
<td>The total amount of data sent and received by the hotspot.</td>
</tr>
<tr>
<td>Network Status</td>
<td></td>
</tr>
<tr>
<td>View Details</td>
<td>Click the link to jump to the Network &gt; Status Details Tab.</td>
</tr>
</tbody>
</table>

**Feedback Page**

Use the links on this page to send your comments on your device and look up support information.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Support.
3. Click Feedback.

The following page appears:

![Feedback Page Screenshot](image)

The following information is displayed.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect with Us</td>
<td></td>
</tr>
<tr>
<td>Facebook</td>
<td>Click to view the AirCard Facebook page in a new browser window or tab. (Your device must be connected to the network for this option to work.)</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>--------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Twitter</td>
<td>Click to view the AirCard Twitter feed in a new browser window or tab. (Your device must be connected to the network for this option to work.)</td>
</tr>
<tr>
<td>Product Support</td>
<td></td>
</tr>
<tr>
<td>User Guide</td>
<td>Open a pdf version of this user guide in a new window or tab.</td>
</tr>
<tr>
<td>Online Help</td>
<td>Open an online version of this user guide in a new window or tab.</td>
</tr>
</tbody>
</table>
Device Settings

Use the Mingle Manager to configure and manage your device’s appearance, performance, and access.

Interface Language

The mobile hotspot’s LCD screen and the Mingle Manager can be viewed in English or Spanish. You can set the default language (for the LCD and the Mingle Manager) in the Mingle Manager’s Settings > General > Device page, and you can temporarily change the Mingle Manager’s language using the language selection box beside the Logout link at the top of the screen.

Setting the Default Language
The default language is the language that will be used on the mobile hotspot’s LCD screen, and whenever you first open the Mingle Manager.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > General > Device.
3. Beside the Default Language, select English or Español.
4. Click Submit.

Temporarily Setting the Mingle Manager Language
You can temporarily change the language used to display the Mingle Manager on your computer. If you close the browser completely, the next time you open the Mingle Manager, the default language will be used.

In the Mingle Manager (http://minglehotspot)

- In the language box at the top right corner of the screen, select the language to use temporarily.

Display Settings

Adjust your screen’s settings to suit your surroundings and to prolong the battery life.

Setting the LCD Timeout
Use this feature to select the delay times before the LCD automatically turns off while running on battery power, connected to the AC charger, or tethered via USB.
You can adjust these settings on the Mingle Manager’s Settings > General > Device page.

**Note:** The LCD turns on if an alert occurs.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > General > Device.
3. Beside the timeouts you want to set (Timeout on Battery, Timeout on AC, Timeout on USB), select the desired timeout periods. (A smaller value helps prolong the battery life.)
4. Click Submit.

**Setting the LCD Brightness**

Use this feature to adjust your screen’s brightness to suit your surroundings and to prolong the battery life.

You can adjust this setting on the Mingle Manager’s Settings > General > Device page.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > General > Device.
3. Beside Screen Brightness, select the desired brightness level (Bright or Dim).
   (Choose Dim to prolong the battery life.)
4. Click Submit.

**Router Settings**

Adjust your device’s router settings through the Basic, Port Forwarding, and Port Filtering tabs.

**Enabling VPN Passthrough**

If you want to connect to a corporate network using their VPN (Virtual Private Network), you need to enable VPN Passthrough.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > Router > Basic.
4. Click Submit.
**UPnP (Universal Plug and Play)**

UPnP provides simple and robust connectivity among consumer electronics, intelligent appliances, and mobile devices from many different vendors. (For more information, see upnp.org.)

**Note:** If UPnP is enabled, there are potential security risks.

**Enabling UPnP**

Before you can use UPnP, you must enable it.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Basic.**
3. Next to **UPnP**, select **On.**
4. Click **Submit.**

**DHCP**

DHCP (Dynamic Host Control Protocol) automatically assigns an IP address to each device on the network and manages other network configuration information for devices connected to your network. You do not need to manually configure the IP address on each device that’s on your network.

The assigned IP addresses are not permanent (as opposed to when using static IP).

Most ISPs (Internet Service Providers) use DHCP.

Normally, you should enable DHCP, in which case you must configure each device on the network with one of the following:

- TCP/IP settings set to “Obtain an IP address automatically.”
- TCP/IP bound to the Ethernet connection with DHCP.

If DHCP is disabled, you must configure each device on the network with:

- Fixed (permanent/static) IP address.
- DNS server addresses (provided by Virgin Mobile).

**Enabling DHCP**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Basic.**
3. Next to **DHCP Server**, select **Enabled.**
4. You can set the following DHCP settings:

- **DHCP IP Range** — This is the starting and ending address of the range of IP addresses available for your device to dynamically (that is, not permanently) assign to computers connected to it.

  The start address must be 192.168.1.10 or above.

  The ending address must be 192.168.1.50 or below.

- **DHCP Lease Time** — This is the amount of time, in minutes, a computer can use its assigned IP address before it is required to renew the lease. After this time is up, the computer is automatically assigned a new dynamic IP address.

  Enter a number between 2 and 10080.

- **DNS Mode** — This specifies how the DNS servers (that the DHCP clients are to communicate with) are obtained. (See DNS Mode.)

5. Click **Submit**.

### DNS Mode

The **DNS Mode** setting specifies how the DNS servers (that the DHCP clients are to communicate with) are obtained.

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **Settings > Router > Basic**.

3. Set DNS Mode to one of the following:

   - **Auto** — The DNS server specified by Virgin Mobile is used.

   - **Manual** — The routing hardware assigns to DHCP clients the DNS servers specified in the **DNS 1** and **DNS 2** fields. (These fields appear when Manual is selected.) Use this option to access a DNS server that provides customized addressing or if you have a local DNS server on your network.

4. Click **Submit**.

### Enabling Port Forwarding

Before you can use or configure Port Forwarding, you must enable it:

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **Settings > Router > Port Forwarding**.

3. Next to **Port Forwarding**, select **Enable**.
4. Click Submit.

Enabling Port Forwarding for an Application
You can enable port forwarding for certain application types.

**Note:** Port forwarding must currently be enabled. (See Enabling Port Forwarding.)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > Router > Port Forwarding.
3. In the blank row of the list, enter a Label that describes the application (for example, “RandomEmailApp”).
4. In the IP field, enter the IP address of the server to be accessed.
5. In the Port field, enter the port used by the application. (If the application uses more than one port, each port must be forwarded separately.)
6. In the Protocol list, click the protocol(s) used for this application (TCP, UDP).
7. Click the + to add this row to the list.
8. Click Submit.

Disabling Port Forwarding for an Application
If you want to stop forwarding any ports, you can remove them from the forwarding list.

**Note:** Port forwarding must currently be enabled. (See Enabling Port Forwarding for an Application.)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > Router > Port Forwarding.
3. Click the × beside the row that you want to remove.
4. Click Submit.

DMZ
You can select one computer to receive all unsolicited incoming connections.

The IP address of the DMZ (“demilitarized zone”) is the default recipient of incoming packets (from the Internet) that are not handled by port forwarding rules or NAT’d connections:

- If port forwarding is enabled, incoming traffic is routed according to the port forwarding rules or NAT’d connections.
• If incoming traffic was not routed as a result of the above:
  § If DMZ is enabled, then incoming traffic is routed to the computer that uses the IP address specified by the DMZ settings.
  § If DMZ is not enabled, the incoming traffic is blocked.

  **Note:** Putting a computer in the DMZ opens all the ports of that computer, and exposes that computer to various security risks. Use this option only as a last resort — if possible, use other options instead (for example, port forwarding).

**Enabling DMZ**

Before you can use or configure DMZ, you must enable it.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Basic**.
3. Next to **DMZ Enabled**, select **On**.
4. Click **Submit**.

**Configuring DMZ**

Specify which computer is to receive all unsolicited incoming connections.

  **Note:** DMZ must currently be enabled. (See Enabling DMZ.)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Basic**.
3. In the **DMZ Address**, enter the IP address of the computer that you want exposed to the Internet. (If you don’t know how to find the IP address, see Finding the IP Address.)
4. Click **Submit**.

**Port Filtering Panel: Enabling Port Filterings**

Before you can use or configure Port Filtering, you must enable it.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Port Filtering**.
3. In the **Port Filtering** list, select **Black List** to prevent specific applications from using the Internet, or **White List** to allow only specific applications to use the Internet.
4. Click **Submit**.
**Port Filtering Panel: Enabling Port Filtering for an Application**

You can enable port filtering for certain application types.

**Note:** Port Filtering must currently be enabled. (See Port Filtering Panel: Enabling Port Filterings.)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Port Filtering.**
3. In the **Label** field, enter a name that describes the application being filtered (for example, “RandomEmailApp”).
4. In the **Port** field, enter the port used by the application.
5. In the **Protocol** list, click the protocol(s) used for this application (TCP, UDP, or both).
6. Click the button to add this filter to the list.
7. Click **Submit.**

**Port Filtering Panel: Disabling Port Filtering for an Application**

If you currently have port filtering enabled and some ports already in the list (Black List or White List), you can remove any of those rows.

**Note:** Port Filtering must currently be enabled. (See Port Filtering Panel: Enabling Port Filterings.)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Router > Port Filtering.**
3. Make sure you’ve enabled the correct port filtering type (Black List or White List).
4. To remove an application from the list click the button beside the row that you want to remove.
5. Click **Submit.**

**Login Settings**

**Changing the Mingle Manager URL**

You may want to change the URL for the Mingle Manager to something more memorable.

To change the URL:

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Settings > General > Device.

3. In the Mingle Manager field (in the Homepage section), type the new value (maximum 31 letters and numbers).

4. Click Submit.

**Changing the Mingle Manager Password**

For security reasons, you should change the Mingle Manager password on a regular basis.

**Note:** If you forget the Mingle Manager password, you’ll need to reset your device to its default settings and go through the device setup. (See What Do I Do if I Forget the Administrator Password?)

To change the Mingle Manager administrator password:

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click Settings > General > Device.

3. Click Show Password.

4. In the Mingle Manager Password field, type the new password (1–31 letters, numbers, and symbols).

5. Click Submit.
Configuring Networks

Find out how to check your activation status and data usage, and set up your device to connect to the Virgin Mobile network.

Viewing Network Activation Information

You can check whether network access is activated.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click About in the top right corner of the page.
3. Check the Activation Date in the WWAN Info section. This is the date that the hotspot was activated on the Virgin Mobile network.

Viewing Data Usage

You can view an estimate of your data usage on your device’s home screen, and on the Mingle Manager’s home page.

**Note:** The data usage shown is an estimate only and is not accurate for billing purposes.

**Note:** The session data counter resets automatically each time your device is powered off and on, and when the mobile broadband network connection disconnects and reconnects (for example, when going through a tunnel). The plan data counter does not reset automatically, but you can click Reset to reset it manually.

On the LCD screen

The data usage shown on the home screen is the total used since the counter was last manually reset.

In the Mingle Manager (http://minglehotspot)

The data usage shown on the home page is the total used since the counter was last manually reset.

To see detailed data usage, log in to the home page. (See Logging In as an Administrator.)

The Data Usage Session section shows:

- Amount of data used in the current session.
- The length of time the connection has been active.

The Data Usage Billing Cycle section shows:
• Total amount of data used since the counter was last reset manually, and amounts used for each network type.

• **Check Carrier Usage** – Click to connect to Virgin Mobile’s website and view detailed billing plan information.

## Network Settings
Adjust your device’s network settings to select the network types that can be connected.

### Setting the Allowed Network Mode
Use this feature to select the types of networks that your device can connect to.

You can adjust this setting on the Mingle Manager’s **Settings > Network > Preferences** page, to one of the following options:

- **Automatic** – The connection will be established on the fastest available network.
- **LTE only** – The connection can be established only on an LTE network. Your device will not connect to CDMA networks.
- **CDMA only** – The connection can be established only on a CDMA (3G) network. Your device will not connect to LTE networks.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Network > Preferences**.
3. Beside **Network Mode**, select the desired network mode that your device can connect to.
4. Click **Submit**.

## Configuring Access Point Names
Your device comes preconfigured with the Access Point Names (APN) for Virgin Mobile’s 3G and LTE networks.

To add an APN for another network:

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Network > APN**.
3. In the blank line, enter the APN details:
   - **Active** – If the new APN is going to be used now, select this button.
Name – Enter a short description (for example, the carrier name).

APN – Enter the APN you obtained from the carrier.

Username – Enter the username you obtained from the carrier (if required).

Password – Enter the password you obtained from the carrier (if required).

Select the Authentication mode to be used (None, PAP, CHAP, PAP or CHAP).

4. Click the △ beside the new APN entry.

To select the APN to be used:

■ Select the Active button at the beginning of the entry.

To remove an APN from the list:

■ Click the x beside the APN entry.
Software and Reset

Find out how to export (backup) and import (restore) your device settings, update software, and reset your device to default settings.

Exporting and Importing Settings

The NETGEAR Mingle Mobile Hotspot lets you save your device settings so that you can make changes to your configuration and, if necessary, restore the original settings.

Exporting Settings

Settings include configuration information for your device, network, and Mingle Manager interface.

You can, for example, export (save) the current configuration, then make some changes and test them. You can then import (restore) the saved configuration.

To export the settings to a text file:

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > General > Software and Reset**.
3. In the **Download / Backup Settings** section, click **Save**.
4. Save the file to an appropriate location in your computer. By default, the file (export.cfg) is saved to your Downloads folder.

Importing Settings

This feature lets you restore a saved configuration.

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > General > Software and Reset**.
3. In the **Restore Settings** section, click **Choose File** or **Browse** (the button name depends on the browser you are using).
4. Navigate to the folder where your previously saved configuration file is stored.
5. Select your configuration file and click **Open** to restore your device with the imported settings.

Note: Your device may reset, and you may need to reconnect to Wi-Fi and the Internet. (See How Do I Connect to Wi-Fi? and Launching Your Network Connection.)
**Update Mobile Hotspot Software and Firmware**

From time to time, updates may become available for your device, and your device will receive an alert. You can also check for new updates manually.

The updates may improve performance and add or modify features. The updates may include the following:

- Device firmware
- The Mingle Manager interface
- Other files

**Downloading Software Updates**

You can download software updates from the Mingle Manager.

When a software update becomes available:

- If your device is connected to Virgin Mobile’s LTE network, the update downloads automatically and an Alert message appears on your device and the Mingle Manager. In the Mingle Manager, view the alert and click **Install now** to install the update. Your device reboots automatically to use the new software. Any devices that were previously connected will have to be reconnected.

- If your device is connected to Virgin Mobile’s 3G network, an Alert message appears on your device and the Mingle Manager. In the Mingle Manager, view the alert and click **Download now** to download and install the software update. Your device reboots automatically to use the new software. Any devices that were previously connected will have to be reconnected.

You can also check for updates manually without having received an alert.

**In the Mingle Manager (http://minglehotspot)**

There are two ways to get the software update from the Mingle Manager. You can get it from the Alert message, or from the **Software and Reset** page.

To get the update from the Alert:

1. Log in to the home page. (See **Logging In as an Administrator**.)
2. In the Alert message for the available update, click **Install Now**.
3. Follow the onscreen instructions.

To get the update from the **Software and Reset** page:

1. Log in to the home page. (See **Logging In as an Administrator**.)
2. Click Settings > General > Software and Reset.

3. Click Check for update. If an update is available, an Install Now button appears.

4. Click Install Now.

5. Click Continue.

**Resetting Your Device**

In some cases, you may want or need to clear your account information to use your device with another account, reset most settings (except for your account and network activation), or reset your device to its factory default settings.

You can clear these settings from the Mingle Manager’s Software and Reset page.

**Clearing Account Details Only**

If you want to use your device with another account, you need to clear your current account.

You can clear these settings from the Mingle Manager’s Software and Reset page.

*Note:* All connected devices will be disconnected and your device will reboot automatically. You will have to activate your device with your new account before they can reconnect.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click Settings > General > Software and Reset.


4. Click Begin Reset.

**Resetting Device Settings Only**

If you want to reset your device to its default behavior, but don’t want to change your account or network activation, you need to reset your device settings.

You can reset these settings from the Mingle Manager’s Software and Reset page.

*Note:* All connected devices will be disconnected and your device will reboot automatically. After the reset finishes, they can reconnect.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click Settings > General > Software and Reset.

4. Click **Begin Reset**.

**Resetting to Factory Default Settings**

In some cases you will need to reset your device’s software to its factory default settings.

**WARNING:** If you reset the software to default settings, you must go through the device setup, as if you’ve just purchased your device. (See Starting Your Device for the First Time.)

You’ll need to reset the software to default settings if:

- You’ve forgotten the administrator password.
- You’ve changed the DHCP settings such that your device is inoperable. (For example, there’s no communication with your device.)

You can reset your device to factory settings from the Mingle Manager’s **Software and Reset** page or **Support** page.

**Note:** All connected devices will be disconnected and your device will reboot automatically.

**In the Mingle Manager (http://minglehotspot)**

**Note:** You can only do a factory reset of your device with Virgin Mobile’s assistance. Contact Virgin Mobile Customer Service to obtain an SPC code that you will need to enter to perform the reset.

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **Settings > General > Software and Reset**.

   – or –

   Click **Support**.

3. Below **Factory Reset**, click **Reset**.

4. Enter the MSL code provided by Virgin Mobile, then click **Submit**.

5. Click **Begin Reset**.
**GPS Settings**

Your NETGEAR Mingle Mobile Hotspot provides GPS functionality to help you figure out where you are and get you where you’re going.

There are a couple of requirements to access the GPS service.

- You must accept the GPS privacy agreement.
- GPS must be enabled.

The GPS service may not be available if you are indoors. (You may be able to get a GPS lock if your device is very close to a window.) GPS receivers must be able to lock onto the global positioning satellites to accurately determine position. The number of obstructions present indoors often makes accurate position determination impossible.

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**Enabling / Disabling GPS**

Before you can access GPS services, you must enable GPS on the Mingle Manager’s GPS page.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click GPS.
3. In the GPS Settings section, select Yes next to “Enable GPS” (or select No to disable GPS).
4. Click Submit.

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**Setting the GPS Mode**

The GPS mode determines how often location fixes are done.

Location fixes can be done:

- Once (“one-time”, which can prolong the battery life), or
- Periodically (“continuous”)

You can set the GPS mode on the Mingle Manager’s GPS page:

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **GPS**.

3. In the GPS Settings section, beside **GPS Mode**, select the desired mode (**One-time** or **Continuous**).

4. Click **Submit**.

**Note:** The GPS service must be enabled before you can set the GPS mode. (See Enabling / Disabling GPS.)

### Using Metric Units

You can use metric units in the display of location information (for example, speed and altitude).

You can choose the units on the Mingle Manager's GPS page.

**Note:** The GPS service must be enabled before you can choose the units. (See Enabling / Disabling GPS.)

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **GPS**.

3. In the **GPS Settings** section, beside **Use Metric units**, select **Yes** (or select **No** to use standard measurements).

4. Click **Submit**.
Configuring the Wi-Fi Network

Find out how to manage access to your device’s Wi-Fi network and set Wi-Fi configuration options.

Setting the Maximum Number of Wi-Fi Devices

If your network is having performance issues, you might want to decrease the number of Wi-Fi devices allowed to connect to your device at the same time, or change the maximum number of devices that can connect to either the Main Wi-Fi or Guest Wi-Fi networks at the same time. (When Guest Wi-Fi is turned on, the maximum number of Wi-Fi devices is shared between Main Wi-Fi and Guest Wi-Fi.)

**Note:** Your device is factory preset to allow a maximum of ten (10) Wi-Fi devices, with eight (8) on Main Wi-Fi and two (2) on Guest Wi-Fi.

You can change these limits on the Mingle Manager’s Wi-Fi > Options page.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > Options.
3. Beside Max Wi-Fi, select the total number of Wi-Fi devices that can connect to your device at the same time.
4. Click `<` to increase the Main Wi-Fi limit, or click `>` to increase the Guest Wi-Fi limit. (Increasing one decreases the other.)

**Note:** The Main Wi-Fi limit cannot be set to 0.

5. Click Submit.

Wi-Fi Security

Learn about the various Wi-Fi security options available to you.

By default Wi-Fi security is enabled for your device and its Wi-Fi networks.

**Note:** All devices used with the NETGEAR Mingle Mobile Hotspot must support the selected security type.

**Note:** WPS is available only if you select either a WPA2 Personal option (including WPA/WPA2 Personal) or (not recommended) no security. (See Connecting Through WPS.)

You can change (from the Mingle Manager) the security used for Wi-Fi:
1. Log in to the home page. (See Logging In as an Administrator.)

2. Click **Wi-Fi > Options**.

3. In the list beside **Encryption** (for Main Wi-Fi) or **Guest Encryption** (for Guest Wi-Fi) select one of the following options. Note that not all options may be available, depending on the Connection **Mode**.

   - **None** – No security is used (no password is required to access the Wi-Fi network); this setting is not recommended. Anyone may access your device and use your Internet connection. (You are responsible for payment for data usage fees.)

   - **WPA Personal TKIP** – This is a strong security standard that is supported by most Wi-Fi devices.

   - **WPA Personal TKIP/AES** – This is a strong security standard that is supported by most Wi-Fi devices.

   - **WPA2 Personal AES** – This is a stronger, newer security standard that is limited to newer Wi-Fi devices.

   - **WPA2 Personal TKIP/AES** – This is a stronger, newer security standard that is limited to newer Wi-Fi devices.

   - **WPA/WPA2 Personal** (recommended setting if any of your devices are more than two years old) – Wi-Fi devices that use either WPA or WPA2 can connect to the NETGEAR Mingle Mobile Hotspot. Supported by most Wi-Fi devices.

4. Click **Submit**.

The option you select determines the Wi-Fi security used and also the maximum length of the Wi-Fi password.

**Change Wi-Fi Network Names and Passwords**

The Main and Guest Wi-Fi network names identify your Wi-Fi networks and are visible to other Wi-Fi-enabled devices.

You can change the names and passwords for your Main and Guest Wi-Fi networks on the Mingle Manager’s **Wi-Fi > Options** page.

For optimal security, you should make your Wi-Fi network names and passwords unique, and change them on a regular basis.

**Note:** If you change either of the Wi-Fi network names or passwords, all connected devices will be disconnected and will have to reconnect using the new values.

**Note:** For security reasons, it’s recommended you disable SSID Broadcast. (See Options Tab.)

To make your Wi-Fi passwords more secure:
Use numbers and both uppercase and lowercase letters.

Use special characters (for example, '@', '#', etc.).

Also, the password length depends on the Wi-Fi encryption type that you’ve selected. (See Wi-Fi Security.)

- None – No password is required.
- WPA-Personal TKIP – The password must be 8 to 63 ASCII characters.
- WPA-Personal TKIP/AES – The password must be 8 to 63 ASCII characters.
- WPA2 Personal TKIP/AES – The password must be 8 to 63 ASCII characters.
- WPA/WPA2 Personal – The password must be 8 to 63 ASCII characters.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Wi-Fi > Options**.
3. In the Main Wi-Fi and Guest Wi-Fi sections, change the **Network Name** and **Password** fields as desired. (The required lengths appear beneath the fields.)
4. If you want to have your device automatically change the Guest Wi-Fi password each time Guest Wi-Fi is turned on, select **Generate a new password each time I turn on the Guest Wi-Fi**.
5. Click **Submit**.
6. When prompted, click **Submit** again. (All devices that were connected will have to reconnect with the new settings.)

**Displaying Main Wi-Fi Network Name and Password on LCD Home Screen**

You can choose whether to show the Main Wi-Fi network name and password on your device’s home screen. You can do this from the Mingle Manager’s **Options** tab.

In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Wi-Fi > Options**.
3. Beside **Wi-Fi Info on Home**, select **Show** or **Hide**.
4. Click **Submit**.
**Enable / Disable the Block List**
You can enable your NETGEAR Mingle Mobile Hotspot’s block list on the Mingle Manager’s Wi-Fi > MAC Filter page. This lets you identify devices that should not be allowed to access your Wi-Fi networks.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > MAC Filter.
3. Beside MAC Filter Mode, select Black list to block devices, or select None to stop blocking devices.
4. Click Submit.

**Displaying and Blocking Currently Connected Devices (Block List)**
To detect a potential intruder, you may want to display a list of the Wi-Fi-enabled devices that are currently connected to your NETGEAR Mingle Mobile Hotspot. You can display this list on the Mingle Manager’s home page.

If you want to stop a device from connecting to your network, you can add it to your device’s block list. The blocked device will not be able to connect again until you choose to unblock it. (See View and Unblock Devices (Block List).)

**Note:** You have to enable the block list before you can block devices from using your Wi-Fi networks. (See Enable / Disable the Block List.)

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
   The Connected Devices section of the home page shows a list of the devices connected to your Main and Guest Wi-Fi networks.
2. If you want to block a listed device, click the device name. The device’s IP address and MAC address display.
3. Click Block Device.
4. Click Block Device again.

**View and Unblock Devices (Block List)**
You can view a list of devices that you have blocked (see Displaying and Blocking Currently Connected Devices (Block List)) from connecting to your NETGEAR Mingle Mobile Hotspot on the Mingle Manager’s Wi-Fi > MAC Filter page.
If you want to allow any of these devices to connect to the network again, you can remove them from your device’s block list.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Wi-Fi > MAC Filter**. A list of the devices blocked from using your Wi-Fi networks appears.
3. Click the **x** beside the device you want to unblock. The device is removed from the list immediately.

**Allowing or Denying Computers Access to the Network (MAC Filter)**

MAC (Media Access Control) filtering can prevent unauthorized wireless devices from connecting to your network.

The MAC filter is used to grant (“white list”) or block (“black list”) wireless devices access to the Main and Guest Wi-Fi networks. Access is based on the MAC address of each wireless device.

In the MAC Filter page (**Wi-Fi > Mac Filter**), you can choose one of three modes:

- **None** – All computers are allowed to access the network.
- **Black list** – All computers are allowed to access the network, unless they’re in this list.
- **White list** – Only computers that are in this list are allowed to access the network.

Regardless of the mode, a user must provide the correct Wi-Fi password to access the network.

**Specifying Computers That Can Access the Network**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Wi-Fi > MAC Filter**.
3. Beside **MAC Filter Mode**, select **White list**.
4. In the empty **Name** field, enter a name for the device. For example, “Amy’s PC”.
5. In the empty **MAC Address** field, enter the MAC address of the device you’re adding to the list. (If you don’t know this address, see **Finding the MAC Address**.)
   Click the **+** beside the row.
6. Repeat steps 4 and 5 for each computer for which you want to allow access.
IMPORTANT: Make sure you add the computer you are using, or else you will not be able to access the network after your device resets.

7. Click Submit.

Specifying Computers That Are Not Allowed to Access the Network

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > MAC Filter.
3. Beside MAC Filter Mode, select Black list.
4. Determine and block an undesired user of your network:
   a. In the Connected Devices section, if you see a device you don’t recognize, you can click its name and compare its MAC address to the MAC address of each of the devices on your network.

      To determine the MAC address of each device you have, see Finding the MAC Address. If none of your devices have this MAC address, that device might be an intruder.
   
   b. In the empty Name field, enter a name for the device. For example, “Amy’s PC”.
   
   c. In the empty MAC Address field, enter the MAC address of the device you’re adding to the list.
   
   d. Click the + beside the row.

5. For each device you want to block, repeat step 4.

Tip: You can also block the device from the device list. See Displaying and Blocking Currently Connected Devices (Block List)

Removing a Device From the Allowed or Disallowed Lists

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > MAC Filter.
3. In the list of allowed/disallowed devices, click the x beside the row.
4. Click Submit.

Disable Wi-Fi When Tethering Device (Connected Through USB)
You can turn off your device’s Wi-Fi radio when connected via the micro-USB cable (‘tethered’). This is done from the Mingle Manager’s Wi-Fi Options tab.
**Note:** If you change this option, your device must be reset before your change takes effect.

In this case:

- Only a computer that is tethered to your device can use it.
- You can prolong the battery life.
- The battery charges faster.
- WPS won’t be available. (See Connecting Through WPS.)

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Wi-Fi > Options**.
3. Beside **USB Tether**, click **Wi-Fi stays Off**.
4. Click **Submit**.

**Setting the Sleep (Inactivity) Timer**

Use this feature to prolong the battery life by making your device go to sleep (turn off the Wi-Fi radio) if no devices are connected to Wi-Fi for a period of time.

You can adjust this setting on the Mingle Manager’s **Settings > General > Device** page.

**In the Mingle Manager (http://minglehotspot)**

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > General > Device**.
3. Beside the timeouts you want to set (**Wi-Fi Sleep on Battery**, **Wi-Fi Sleep on AC**, **Wi-Fi Sleep on USB**), select the desired timeout periods. (A smaller value helps prolong the battery life.)
4. Click **Submit**.

**Wi-Fi Channel**

The Wi-Fi channel is the active channel of the Wi-Fi access point. If your network is having performance issues (possibly caused by other Wi-Fi networks in the vicinity using the same channel), try a different Wi-Fi channel.

You can change the channel from the Mingle Manager’s **Wi-Fi > Options** page.

**Note:** All connected devices will be disconnected and have to reconnect if the channel is changed.
In the Mingle Manager (http://minglehotspot)

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click Wi-Fi > Options.
3. Select a different channel number in the Wi-Fi Channel list, or, to have your device automatically determine the channel to use, select Auto.

**Note:** If you choose Auto, your device could reselect the same channel. If this happens, try again.

4. Click Submit.
Frequently Asked Questions

Find out answers to questions you may have.

How Can I Tell I’m Connected to 3G or LTE?

There are a few ways you can tell whether you are connected to a network, and which network type (3G, or LTE) you’re connected to.

When you’re connected to a network (3G or LTE):

- On the LCD screen, the network type icon (3G or LTE) and data transfer indicator arrows appear on the home screen.

- In the Mingle Manager (http://minglehotspot), the network type icon (3G or LTE) and data transfer indicator arrows appear in the Status section on the left side of the page, and the connection status is shown on the Network > Status Details Tab.

If the device is not connected to a network, an alert will appear on the device and in the Mingle Manager.

How Do I Connect to Wi-Fi?

You may have to manually connect to Wi-Fi after certain events — for example, as part of the initial device setup, or after a software update.

Tip: The Wi-Fi network name and password are displayed on the home screen of the NETGEAR Mingle Mobile Hotspot. (See LCD Information Screens.)

Tip: Alternatively, you can use WPS to connect a device to the NETGEAR Mingle Mobile Hotspot, if your device supports WPS. (See Connecting Through WPS.)

To connect to Wi-Fi:

1. Do one of the following, depending on your operating system.

   - Windows 7: Click the Wi-Fi icon in the system tray.
   - Windows Vista: Click Control Panel > Network and Internet > Network and Sharing Center > Connect to a network.
   - Windows XP: Click Control Panel > Network Connections > Wireless Network Connections > View available wireless networks.
   - Mac: Click the AirPort icon (in the upper right corner of your screen).
   - Linux: Please see the user documentation of the Linux distribution.
Other operating systems: Please see the user documentation for your operating system or computer.

2. Select the Wi-Fi network provided by the NETGEAR Mingle Mobile Hotspot and connect to it. (If prompted for a network key/security key/password, enter the Wi-Fi password.)

What Do I Do if I Forget the Main or Guest Wi-Fi Password?

If you forget the Main Wi-Fi password.

- On the LCD screen:
  - The Main Wi-Fi password appears on the homescreen (if you have not configured it to be hidden. See Displaying Main Wi-Fi Network Name and Password on LCD Home Screen.)
  - Log in to the Mingle Manager web page with the administrator password. In the Mingle Manager, click **Wi-Fi > Options**.

If you forget the Guest Wi-Fi password.

- On the LCD screen, cycle through the screens (click the power button once to switch to the next screen) to the Guest Wi-Fi screen. If Guest Wi-Fi is enabled, the password will be shown.

**Note:** Remember that if you have chosen to randomize the Guest Wi-Fi password, it changes each time the Guest Wi-Fi network is turned on. (See Randomizing the Guest Wi-Fi Password.)

What Do I Do if I Forget the Administrator Password?

If you forget the Administrator Password.

- Reset the software to default settings. You will need to call Virgin Mobile Customer Support for assistance. (See Resetting to Factory Default Settings.)

If the Connection is “Always On,” Am I Always Being Billed?

No. The connection to the network goes dormant after a period of inactivity, but the connection can be re-established faster than having to reconnect. Billing occurs only when data is passed across the network.
Questions About GPS
Find answers to common questions about GPS.

What is GPS?
GPS stands for Global Positioning System, which is a system that uses a series of 24 geosynchronous satellites to provide location data.

GPS satellites transmit signals to equipment on the ground. GPS receivers passively receive satellite signals, but do not transmit.

Where Can I Use GPS?
GPS works wherever you have line-of-sight access to the GPS satellites.

How Do I Enable or Disable GPS?
By default, GPS is disabled. To enable GPS, see Enabling / Disabling GPS.

What are some GPS Limitations?
Weather conditions or tall nearby buildings may affect your ability to get a clear view of the satellites and thus to acquire a GPS fix.

How Can I Stream GPS Data to Use With a Third-party GPS Application?
GPS NMEA data is streamed over Wi-Fi or over a tethered USB connection using a virtual COM port.

Follow these steps to stream NMEA data for a third-party GPS application.

1. Set GPS Mode to Continuous. (See Setting the GPS Mode.)

2. Determine the COM port number that your NETGEAR device (that is, your NETGEAR Mingle Mobile Hotspot) is using.
   In the following example for Windows, the Device Manager shows that COM 16 is used. In your case, the COM port number might be different.

   (If you don't know how to access the Device Manager, see http://kb.netgear.com/app/answers/detail/a_id/22868.)

3. Configure your GPS application to use the same COM port. For help, see the documentation of the GPS application.
Questions About WPS
Find answers to common questions about WPS.

What is WPS?
Wi-Fi Protected Setup (WPS) provides a fast, simple, and secure way to connect WPS-enabled devices to your Wi-Fi network. You don’t have to give the name (SSID) and Wi-Fi password of your network to other users.

The WPS feature is available on certain cameras, printers, smartphones, and laptops. These devices have either a hardware button or a WPS-related option in the software. Please consult the user documentation of your device.

How do I Use WPS?
Please see Connecting Through WPS.

If a Wireless Device has a WPS Button or a WPS Software Option, Must I Use it to Connect Via Wi-Fi?
If this is the only way your device provides to connect through Wi-Fi, then you must use the WPS button or the WPS software option. Some laptops support two methods — a WPS button or software option, and Wi-Fi network manager software where you can connect by entering the Wi-Fi network name (SSID) and password, as described in How Do I Connect to Wi-Fi?.

Please consult the user documentation of your device.

How Do I Access My Corporate Network Through a VPN?
Once you complete a wireless connection, you may need to launch an extranet client provided by your company and supply the appropriate user name and password to gain access. For support, contact your company help desk.

Are Terminal Sessions Supported?
Terminal sessions (for example, via telnet or ssh) are not supported.
Tips

This section provides information on getting the most out of your device and your network connection.

Extending Battery Life
There are several ways you can extend the battery life.

- When you’re not using your device, turn it off.
- Connect your device through the micro USB cable to your computer, and disable Wi-Fi. (See Disable Wi-Fi When Tethering Device (Connected Through USB).)
- Adjust the LCD — do one or more of the following:
  - Decrease the brightness of the LCD. (See Setting the LCD Brightness.)
  - Set the LCD to turn off sooner. (See Setting the LCD Timeout.)
- Use a shorter Wi-Fi inactivity timeout period. (See Setting the Sleep (Inactivity) Timer.)
- Limit the number of Wi-Fi devices. (See Setting the Maximum Number of Wi-Fi Devices.)
- If you have only one network coverage type available (LTE or 3G), set the allowed network mode to that coverage type only. (See Setting the Allowed Network Mode.)
- If GPS is enabled and you’re using your device from the same location, set GPS Mode to One-time. (See Setting the GPS Mode.)

Mobile Hotspot Location
Follow these guidelines in placing your device.

- Avoid moisture or extreme temperatures.
- For improved reception, place your device near a closed window.
- Place your device within easy reach of a reliable power supply and the computer to which it will be connected.

Improving Signal Strength
There are several ways you can improve the signal strength.

- Make sure you’re inside a network coverage area.
- Try reorienting your device.
● Move your device and your computer to another location — you may be in or near a structure that is blocking the signal. Every obstacle (for example, walls, ceilings, furniture) between the NETGEAR Mingle Mobile Hotspot and other wireless devices decreases the signal strength.

● Place your device in a centralized location, as high as possible in the room.

● Make sure there’s plenty of space around your device to provide the best signal reception.

● Keep your device at least 3–6 feet away from electrical devices that generate RF interference (for example, microwaves, TVs, 2.4 GHz cordless phones, cellular phones, baby monitors, wireless speakers). If you’re not using these electrical devices, turn them off.

● If possible, place your devices so that the signal passes through open doorways or drywall, as opposed to concrete, brick, metal, walls with insulation, and so on.

● If you cannot obtain service, contact Virgin Mobile — a network or account problem may be preventing you from obtaining service.

**Improving 3G Network Service**

To improve your network service, periodically check for PRL and profile updates.

The PRL (Preferred Roaming List) is an account configuration item set by your service provider. It controls the radio channels and network carrier used by the 3G modem.

To check for these updates:

1. Log in to the home page. (See Logging In as an Administrator.)
2. Click **Settings > Network > Preferences**.
3. Click **Update PRL**.

**Improving Wi-Fi Performance**

There are several ways you can improve Wi-Fi performance.

● Try a different channel number. (See Wi-Fi Channel.)

● Check whether any device updates are available. (See Update Mobile Hotspot Software and Firmware.)

● See the tips in Improving Signal Strength.

● Limit the number of Wi-Fi devices. (See Setting the Maximum Number of Wi-Fi Devices.)
Windows XP and Windows 7 Users

1. Open the Device Manager.

   In Windows XP:
   - Click **Start > Settings > Control Panel**.
   - Double-click **System**.
   - Click **Hardware**.
   - Click **Device Manager**.

   In Windows 7:
   - Click **Start > Control Panel**.
   - Click **Device Manager**.

2. Double-click **Network adapters**.

3. Double-click the Wi-Fi client network adapter of your computer — for example, “Intel(R) WiFi Link 5100 AGN” in the image below.

4. If the Wi-Fi client network adapter is by Intel, click **Advanced** and, in the **Property** list, click **Power Management** and move the slider all the way to the right (to **Highest**). Click **OK**.

   – or –

   If the Wi-Fi client network adapter is not by Intel, select a configuration with minimal power savings (to maximize throughput).

**Note:** The above settings are often controlled by 3rd-party value-add applications and may be automatically changed. If Wi-Fi performance improves for a while after performing the above steps, but then declines, recheck the above settings.

**Security Tips**

Follow these tips to minimize security risks.
• Change the Wi-Fi network name (SSID) and Wi-Fi password on a regular basis. (See Change Wi-Fi Network Names and Passwords.)

• Disable SSID Broadcast. (See Options Tab.)

• Use the highest level of Wi-Fi security that your devices support. (See Wi-Fi Security.)

• Change the login password. (See Changing the Mingle Manager Password.)

• Use MAC filtering to specify computers that are or aren’t allowed to connect to the network. (See Allowing or Denying Computers Access to the Network (MAC Filter).)

Finding the MAC Address
You’ll need to know the MAC address of a device in a couple of cases.

• Allowing or denying computers access to the network. (See Allowing or Denying Computers Access to the Network (MAC Filter).)

Tip: You can display a list of connected devices, including the MAC address of each device. See Displaying and Blocking Currently Connected Devices (Block List).

The steps to finding the MAC address of a device vary, depending on your operating system.

Windows

1. Open a command prompt window.
   
   ß Click Start and Run.
   
   ß Type cmd or command, and click OK.

2. At the command prompt, type ipconfig/all and press Enter.

3. Write down the Physical Address for the entry that relates to the wireless network connection; it appears as a series of numbers and letters — this is the MAC address of your wireless adapter.

Mac OS X

1. From the Apple menu, select System Preferences.

2. Select Network.

3. Select the adapter that is connecting to the routing hardware.

4. Select Advanced.

5. Select Ethernet. The Ethernet ID is listed. This is the same as the MAC address.
Linux

Please see the user documentation of the Linux distribution.

Other Operating Systems

Please see the user documentation for your operating system or computer.

**Finding the IP Address**

You’ll need to know the IP address of a device when configuring certain features.

- Port forwarding
- DMZ

The steps to finding the IP address of a device vary, depending on your operating system.

**Windows**

1. Open a command prompt window.
2. Type `cmd` or `command`, and click OK.
3. At the command prompt, type `ipconfig` and press Enter.
4. Write down the IP Address for the entry that relates to the wireless network connection.
   (The IP address might be listed under “Ipv4 Address,” or something similar.)

**Mac OS X**

1. From the Apple menu, select **System Preferences**.
2. Select **Network**.
3. Select the wireless adapter. The IP address is displayed in the right pane.

**Other Operating Systems**

Please see the user documentation for your operating system or computer.
Troubleshooting

Learn about various troubleshooting tips, and what to do when a specific message is displayed.

General Tips
Here are some general tips to get you started.

- If some settings are preventing you from connecting to Wi-Fi, connect to your device through the micro USB cable, and then change the settings. (See Connecting Through USB.)
- Go to virginmobileusa.com/help-support to access troubleshooting and other resources.
- The knowledge base at the NETGEAR website (support.netgear.com) may also be useful.

LCD Is Dark
The following table describes situations that can cause the LCD to be dark (that is, not displaying any text or icons), and recommends actions.

<table>
<thead>
<tr>
<th>Device state</th>
<th>LCD state</th>
<th>Your action</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>On, but dormant</td>
<td>Briefly press the power button on your device.</td>
</tr>
<tr>
<td></td>
<td>(inactivity timeout)</td>
<td></td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
<td>Turn your device on:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Make sure a battery is inserted into your device.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Press the power button on your device until it turns on.</td>
</tr>
</tbody>
</table>

If the LCD is still dark, use the micro USB cable to connect your device to the AC charger or to a computer.

Insufficient Signal Strength
If you have insufficient signal strength, an icon is displayed on your device’s home screen, and in the Mingle Manager’s Connection Details section.

Insufficient signal strength, indicated by 🔒, may occur because:
● You are outside network coverage areas.
● Your device’s internal antenna is pointing in the wrong direction.
● You are in or near a structure that is blocking the signal.
● You are near a device that is causing radio signal interference.
● A network or account problem is preventing you from obtaining service.

See also Improving Signal Strength.

**Cannot Connect to Wi-Fi**

If your computer cannot connect to the Main or Guest Wi-Fi networks of the NETGEAR Mingle Mobile Hotspot, there are several things you should check.

Make sure that:

● The maximum number of Wi-Fi devices has not been reached. (To determine the number of connected Wi-Fi devices and set the maximum, see Displaying and Blocking Currently Connected Devices (Block List) and Setting the Maximum Number of Wi-Fi Devices.)

● You’re connecting to the correct Wi-Fi network (SSID), and you’re using the correct Wi-Fi password.

● Nobody has changed the name or password of the Wi-Fi network.

● Wi-Fi is not disabled because your device is tethered. See Disable Wi-Fi When Tethering Device (Connected Through USB).

● Your computer supports the type of Wi-Fi security that the network is set to use.

**Note:** All the devices used with the NETGEAR Mingle Mobile Hotspot must support the selected security type.

● Your computer supports Wi-Fi 802.11g (if **Connection Rate** is set, in the **Options Tab** to **802.11g** only).

● Your computer has not been blocked through MAC filtering. (See Allowing or Denying Computers Access to the Network (MAC Filter).)

**Tip:** If some settings are preventing you from connecting to Wi-Fi, connect to your device through the micro USB cable, and then change the settings. (See Connecting Through USB.)

**Cannot Connect Through USB**

If your computer cannot connect to the NETGEAR Mingle Mobile Hotspot through the micro USB cable, go through the following steps.
Make sure that you’ve installed the device driver, as described in Making a Tethered Connection.

**Cannot Display the Home Page**

Your Web browser may display an error message when you try to display the home page. The error message depends on your Web browser.

- “Could not connect to remote server” (Opera)
- “Internet Explorer cannot display the webpage” (Internet Explorer)
- “Oops! This link appears to be broken” (Google Chrome)
- “Safari can’t open the page” (Safari)
- “The connection has timed out” (FireFox)

Check the following:

- Your device is turned on. (See Turning Your Device On and Off.)
- You have established a connection to your device (through Wi-Fi or through the micro USB cable).
- Make sure you’re typing the correct address in the Web browser.
  - Try http://minglehotspot (unless you’ve changed the URL in Changing the Mingle Manager URL.)
  - If the home page is still not displayed, try http://192.168.1.1 or, if you’re using custom routing settings, replace “192.168.1.1” with the appropriate IP address.
- The Web browser is a recent version, and Java-enabled. The following are recommended:
  - Internet Explorer® (version 8.0 or higher)
  - Mozilla Firefox® (version 4.0 or higher)
  - Google Chrome™ (version 17 or higher)
  - Apple Safari® (version 5.0 or higher)
  - Apple Safari® Mobile (version iOS 4.0)
  - Android Browser (Android OS 2.2 or higher)
- If your computer has other adapters (for example, Ethernet) connected to other networks, disable or remove them from your computer.
● If Internet security software is running on your computer, disable it and see whether the error message still occurs. Some firewall software may block access to the home page.

● If DHCP is enabled on your device, make sure DHCP is enabled on your computer. (See DHCP.)

● Check your Web browser settings:

   1. Open the Control Panel in Windows.
   2. Double-click Internet Options.
   3. From the Security tab, restore the default settings.
   4. From the Connections tab, select Never dial a connection.
   5. From the Advanced tab, restore the default settings.
   6. Close and reopen your Web browser.

● Disconnect your device from your computer (if you’re using the micro USB cable). Remove the battery from your device. Reinsert the battery.

If, after checking all of the above, you still cannot display the home page, consider resetting the software to default settings. (See Resetting to Factory Default Settings.)

**Cannot Connect to the Mobile Broadband Network**

If this message is displayed, go through the following steps.

● Make sure your computer is connected to your device (through the micro USB cable or Wi-Fi). (See How Do I Connect to Wi-Fi? or Making a Tethered Connection.)

● Make sure you’re in a network coverage area.

● Check the Network Mode setting (See Setting the Allowed Network Mode). For example, if it’s set to LTE Only, you won’t be able to connect if you don’t have LTE coverage.

● Try the tips in Improving Signal Strength.

● Check with Virgin Mobile — a network or account problem may be preventing your device from obtaining service.

**GPS Doesn’t Seem to Be Available**

Make sure that GPS is enabled. (See Enabling / Disabling GPS.)

For best results, minimize the number of obstructions between your device and the GPS satellites.
**Cannot Check for Updates**

Make sure your device is connected to the AC charger or computer through the micro USB cable.

**Note:** If you'll be using USB for data transfer (and not just for charging your device), you must install the device driver. (See Making a Tethered Connection.)
# Technical Specifications

This section lists the electrical, radio frequency, and other parameters of your device for those who require technical information.

## Radio Frequency and Electrical Specifications

This section lists the radio frequency and electrical parameters of your device.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>FCC</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Size: 1800 mAh</td>
</tr>
<tr>
<td></td>
<td>Duration for full charge (AC charger / PC USB cable): 2.5 hours</td>
</tr>
<tr>
<td></td>
<td>Charge life:</td>
</tr>
<tr>
<td></td>
<td>● Up to 12.5 hours of active time</td>
</tr>
<tr>
<td></td>
<td>● Up to 210 hours standby time</td>
</tr>
<tr>
<td><strong>Current</strong></td>
<td>Maximum: ~900 mA</td>
</tr>
<tr>
<td></td>
<td>Standby current:</td>
</tr>
<tr>
<td></td>
<td>● 4 mA (1xEV-DO/IS2000 hybrid mode)</td>
</tr>
<tr>
<td></td>
<td>● ~6.5 mA (LTE)</td>
</tr>
<tr>
<td><strong>Transmit</strong></td>
<td>PCS: 1850-1910 MHz</td>
</tr>
<tr>
<td></td>
<td>Cellular: 824-849 MHz</td>
</tr>
<tr>
<td></td>
<td>Secondary 800 MHz: 817-824 MHz</td>
</tr>
<tr>
<td></td>
<td>LTE:</td>
</tr>
<tr>
<td></td>
<td>● Band 25: 1850-1915 MHz</td>
</tr>
<tr>
<td></td>
<td>● Band 26: 814-849 MHz</td>
</tr>
<tr>
<td></td>
<td>● Band 41 (TDD): 2496-2690 MHz</td>
</tr>
</tbody>
</table>
Receive

- PCS: 1930-1990 MHz
- Cellular: 869-894 MHz
- Secondary 800 MHz: 862-869 MHz
- LTE:
  - Band 25: 1930-1995 MHz
  - Band 26: 859-894 MHz
  - Band 41 (TDD): 2496-2690 MHz

Software Specifications
This section lists the specifications that your device supports.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDMA (3G) specification</td>
<td>IS-2000 Release 0</td>
</tr>
<tr>
<td>Data service</td>
<td>IS-707A</td>
</tr>
<tr>
<td>3GPP</td>
<td>Release 9</td>
</tr>
<tr>
<td>Wi-Fi specification</td>
<td>IEEE 802.11b</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11g</td>
</tr>
<tr>
<td></td>
<td>IEEE 802.11n</td>
</tr>
<tr>
<td>Wi-Fi security and encryption protocols</td>
<td>WPA Personal TKIP</td>
</tr>
<tr>
<td></td>
<td>WPA Personal TKIP AES</td>
</tr>
<tr>
<td></td>
<td>WPA2 Personal AES</td>
</tr>
<tr>
<td></td>
<td>WPA2 Personal TKIP AES</td>
</tr>
<tr>
<td></td>
<td>WPA/WPA2</td>
</tr>
<tr>
<td>WPS</td>
<td>Wi-Fi Simple Configuration 2.0 (WSC 2.0) based Wi-Fi Protected Setup (WPS)</td>
</tr>
<tr>
<td>SMS (IS-637)</td>
<td>Not supported</td>
</tr>
<tr>
<td>Item</td>
<td>Description</td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>FAX</td>
<td>Not supported</td>
</tr>
<tr>
<td>IOTA</td>
<td>Supported</td>
</tr>
<tr>
<td>OTASP (IS-683A, IS-683B, IS-683C)</td>
<td>Supported</td>
</tr>
<tr>
<td>OTAPA</td>
<td>Supported</td>
</tr>
<tr>
<td>PRL (Preferred Roaming List)</td>
<td>Supported</td>
</tr>
<tr>
<td>Authentication</td>
<td>Supported</td>
</tr>
<tr>
<td>Voice</td>
<td>Not supported</td>
</tr>
<tr>
<td>NAM</td>
<td>Single</td>
</tr>
<tr>
<td>Position Location</td>
<td>Standalone</td>
</tr>
<tr>
<td>TTY/Accessibility</td>
<td>Not supported</td>
</tr>
<tr>
<td>Mobile IP</td>
<td>Supported</td>
</tr>
<tr>
<td>Network protocols (routing hardware)</td>
<td>TCP, UDP, ARP, RARP, ICMP</td>
</tr>
<tr>
<td>VPN</td>
<td>Pass-through of the following VPN types:</td>
</tr>
<tr>
<td></td>
<td>● PPTP</td>
</tr>
<tr>
<td></td>
<td>● IPSec</td>
</tr>
<tr>
<td></td>
<td>Tunneling of multiple VPN sessions simultaneously is supported.</td>
</tr>
</tbody>
</table>

**Environmental Specifications**

This section describes the environmental conditions that your device can be used in.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>0 to 45°C (32 to 113°F)</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-20 to 60°C (-4 to +140°F)</td>
</tr>
</tbody>
</table>
### Humidity

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidity</td>
<td>45°C (113°F) / 86% RH max.</td>
</tr>
</tbody>
</table>

### Mechanical Specifications

This section describes the dimensions and physical features of your device.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x L x H)</td>
<td>2.36&quot; x 4.33&quot; x 0.63&quot; (excluding feet)</td>
</tr>
<tr>
<td>Weight</td>
<td>3.67 oz.</td>
</tr>
</tbody>
</table>
Safety Information

Read important safety information about your device.

Important Notice

Due to the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors) or be totally lost. Although significant delays or losses of data are rare when wireless devices such as the NETGEAR Mingle Mobile Hotspot are used in a normal manner with a well-constructed network, your device should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. NETGEAR accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using your device, or for failure of your device to transmit or receive such data.

Safety and Hazards

Do not operate your device under the following conditions.

- In areas where blasting is in progress
- Where explosive atmospheres may be present
- Near medical equipment
- Near life support equipment, or any equipment that may be susceptible to any form of radio interference.

In such areas, your device MUST BE POWERED OFF. Your device can transmit signals that could interfere with this equipment.

Do not operate your device in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, your device MUST BE POWERED OFF. When operating, your device can transmit signals that could interfere with various onboard systems.

Note: Some airlines may permit the use of cellular phones while the aircraft is on the ground and the door is open. Your device may be used at this time.

The driver or operator of any vehicle should not operate the device while in control of a vehicle. Doing so will detract from the driver or operator’s control and operation of that vehicle. In some jurisdictions, operating such communications devices while in control of a vehicle is an offense.

Proper Battery Use and Disposal

Follow these guidelines to ensure safe and responsible battery use.
- Do not open, disassemble, puncture, crush, bend, or shred.
- Do not expose to water or other liquids, fire, explosion, or other hazards.
- Use the battery only in the NETGEAR Mingle Mobile Hotspot.
- If using with a charger, use only the AC charger supplied with your device.
- Do not short circuit the battery.
- When replacing a battery, use the same model of battery that was supplied with your device.
- Follow local regulations when disposing of a used battery.
- Avoid dropping your device or the battery. If dropped and you suspect damage, take it to a service center for inspection.

**Note:** Improper battery use may result in a fire, explosion, or other hazard.
This section contains regulatory information for your device.

The design of the NETGEAR Mingle Mobile Hotspot complies with U.S. Federal Communications Commission (FCC) guidelines respecting safety levels of radio frequency (RF) exposure for mobile devices, which in turn are consistent with the following safety standards previously set by U.S. and international standards bodies:

- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998, Guidelines for limiting exposure to time-varying electric, magnetic, and electromagnetic fields (up to 300 GHz)

FCC ID: PY3AC778S

RF Exposure - The NETGEAR Mingle Mobile Hotspot has been tested for compliance with FCC RF exposure limits in a portable configuration. At least 1.0 cm of separation distance between the NETGEAR Mingle Mobile Hotspot and the user's body must be maintained at all times. This device must not be used with any other antenna or transmitter that has not been approved to operate in conjunction with this device.

WARNING (EMI) - United States FCC Information - This equipment has been tested and found to comply with the limits for a Class B computing device peripheral, 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.

CAUTION: Any changes or modifications not expressly approved by NETGEAR could void the user's authority to operate the equipment.

This device complies with Parts 15, 24, and 27 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.
Legal

This section contains important license and legal information.

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Version 2, June 1991

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hash.c: chained hash tables

Reference: Your favorite introductory book on algorithms

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list.c: lists handling implementation

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