

User Guide

***MiFi® 3G/4G Mobile Hotspot
by Novatel Wireless
Browser Interface***

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Introduction

This **User Guide** explains the use of the browser interface that allows you to configure your device as well as access its many features.

- ◆ Section 1: Your Device's Browser Interface
- ◆ Section 2: Interface Settings
- ◆ Section 3: Troubleshooting
- ◆ Section 4: Reference

Your Device

Thank you for purchasing a MiFi® 3G/4G Mobile Hotspot by Novatel Wireless. This device offers more freedom than ever before. No wires, no cables, no software – configure it through your Web browser.



Getting More Information

This guide describes the browser interface that allows you to configure your device. For information about setting up your device on your Sprint account, device maintenance and care, etc., consult the printed “**Get Started**” guide that came with your device.

Section 1

*Your Device's Browser
Interface*



1A. Interface Basics

- ◆ The Browser Interface (page 2)
- ◆ Opening the Browser Interface (page 2)
- ◆ The Landing Page (page 7)

The Browser Interface

Your device uses a browser interface to configure itself. The browser interface lets you:

- Customize your landing page interface.
- View the status of aspects of your network.
- Set up wireless security, including MAC and port filtering and port forwarding.
- Use GPS technology to search for stores, restaurants, and other locations in your area.

Opening the Browser Interface

Initial Connection and Setup

Important: Set the wireless network adapter power options to maximize your device's performance.

1. Click **Start** and type **Power Options** in the **Start Search** box, and then click **Power Options**.
2. Click **Change plan settings** under the selected plan.
3. Click **Change advanced power settings**.
4. Expand **Wireless Adapter Settings**, and then expand **Power Saving Mode**. Next to **On Battery**, select **Maximum Performance**, and then click **OK**.

Note: The battery should be fully charged before using your device for the first time.

When you press the power button:

- Your device comes on and the power LED lights up.
- A solid green LED indicates the device is in service and ready to connect to the 3G network. A solid blue LED indicates the device is in service and ready to connect to the 4G network.

LED States

The MiFi device LED provides valuable information about the state of the device and its connection.

Power/Connection LED

LED Color	Power Connection	Status	Description
No Light 	No Power	—	Device is powered off
Amber 	Connected to power	Flashing:	Device is powered on; no 3G or 4G service is available (out of coverage area)
Green 	Connected to power	Flashing: Solid:	Device is powered on and connected to 3G; blink rate corresponds to connection speed Device is powered on; 3G service is available but not connected
Blue 	Connected to power	Flashing: Solid:	Device is powered on and connected to 4G; blink rate corresponds to connection speed Device is powered on; 4G service is available but not connected
Purple 	Connected to power	Flashing:	Device is powered on; firmware is being uploaded
Red 	Connected to power	Flashing:	Device error

Status Panel Display

The status panel display is located on the right side of the front of the MiFi device. When the device is powered on, the icons display current device status information.

	Mobile Broadband network signal strength.
	Roaming status.
	Battery life; this icon indicates the amount of battery life remaining, and also indicates when the device is connected to power.
	GPS status. This icon indicates whether the device has a GPS fix and also indicates when the device is searching for a GPS fix.
	Connection status; displays a dot for each WiFi device connected to your device.

How to Connect to Your Device

1. Use your normal Wi-Fi manager on your computer to locate the **MiFi 4082** wireless network.

Tip: The steps to connect to a Wi-Fi network vary depending on your operating system and whether you use the native application or third-party software.

Generally, you click an icon (often in the Windows notification area or **System Preferences > Network** on a Mac) where you can select “View Available Wireless Networks.” If you are unfamiliar with wireless networking on your computer, consult your computer help system.

2. If multiple wireless networks are found, highlight “**Sprint MiFi4082 xyz**” (where “xyz” is a three-digit number unique to your device).

Tip: If more than one MiFi device is active nearby, your unit can be identified by the last three digits of its SSID (network name). When you set up security for your network, the network name will change.

3. Click **Connect**.
4. If this is your first time connecting to the device, from your computer's Web browser, enter **http://mifi.mlp** into the address window and press the **Enter** or **Return** key.

Tip: You can use either of these addresses to connect:

- <http://mifi.mlp>
- <http://192.168.1.1>

The MiFi Setup Wizard will start.

Sprint 

MiFi Setup Wizard



powered by **MiFi**
UM14082

5. Enter the default password (“admin”) into the Login password box and click **Next**.

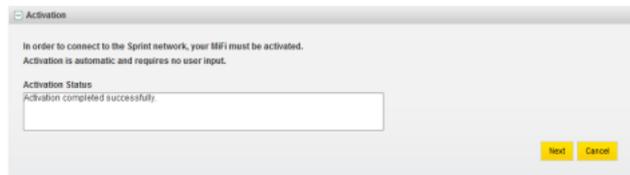
An onscreen wizard will launch and guide you through the initial setup for your device.

Important:

- Be sure to record both the administrative password and the network key that you create using the initial setup wizard.
- If you cancel the wizard, your network will be left unsecure (open). The wizard will relaunch every time you start the browser interface.

Sprint 

MiFi Setup Wizard



powered by **MiFi**

6. Click **Next**.

7. Select **I accept this agreement** to approve the GPS Privacy Consent Agreement and click **Next**.



MiFi Setup Wizard



powered by **MiFi**
MiFi 4082

8. Create a new administrative password, enter it into both boxes, and click **Next**.

This is the password you will use to enter the browser interface in the future.

9. Click **Finish** to accept and save your setup. The connection will close and the Wi-Fi device will restart.

Note: When you reconnect, the network name (SSID) will be different. The word “Secure” will have been added to the end. For example, if the network name was “**Sprint MiFi4082 1A3**” the first time you connected, it will now be “**Sprint MiFi4082 1A3 Secure.**”

Login to the Browser Interface

1. Click **Login** on the upper right corner of the screen.



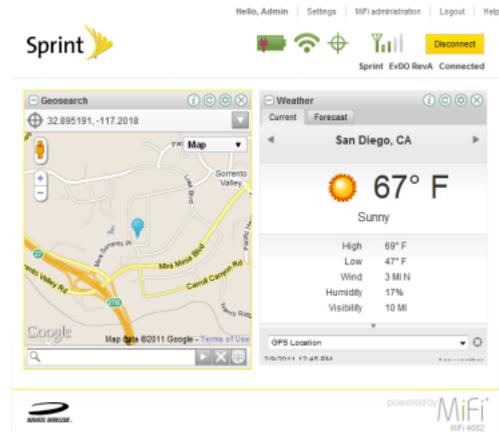
2. Enter your new administrative password and click **Login**.



3. The landing page will open. Click **Connect**.

The Landing Page

The landing page is the first screen you see after logging in to the browser interface. It is the main point of entry for all your work in the browser interface. The landing page is where guests can see and interact with widgets (“mini-applications” that display specific information). They can drag and drop widgets around the screen and arrange them as they like; each guest’s browser stores the widget locations.



The Navigation Bar

The navigation bar is at the top of the landing page in the browser interface. The navigation buttons change according to the page you visit.



Hello, Admin | Settings | MiFi Administration | Logout | Help

The Status Icons

Located below the navigation bar, at the top right corner of the window, status icons tell you about battery life, microSD card status, Wi-Fi strength, roaming status, GPS status, mobile broadband network strength, and connection status.



Settings Menu Bar

The Settings section contains a menu bar to help you configure your device. Except for the MiFi administration menu tab, each menu bar tab has a submenu with several additional items available.



The MiFi Administration Section

The MiFi administration tab takes you to the MiFi Administration screen, which is the basic Internet connection and Wi-Fi status page that guest users can access.

MiFi Administration Screen

The MiFi Administration screen is divided into two sections:

- **Internet Connection Summary**
- **Wi-Fi Summary**

Click the small square next to a section title to expand or collapse that section.

The screenshot shows the MiFi Administration interface. At the top, there is a navigation bar with the Sprint logo and a 'Disconnected' status indicator. Below the navigation bar, the 'MiFi Administration' section is visible, containing two expandable sections: 'Internet Connection Summary' and 'Wi-Fi Summary'. The 'Internet Connection Summary' section is expanded, displaying the following data:

Time Connected	00:13:04	IP Address	192.168.1.100
Data Received	251.80 KB	Subnet Mask	255.255.255.0
Data Transmitted	85.60 KB		

The 'Wi-Fi Summary' section is also expanded, displaying the following data:

Profile	Open	IP Address	192.168.1.1
Network Name (SSID)	Sprint MiFi4082 08B	Subnet Mask	255.255.255.0
Security	None		
Connected Devices	1/5		

At the bottom of the screen, there is a 'Setup Wizard' button and a 'powered by MiFi 4082' logo.

Internet Connection Summary

Internet Connection Summary			
Time Connected	00:13:04	IP Address	192.168.1.100
Data Received	251.80 KB	Subnet Mask	255.255.255.0
Data Transmitted	85.60 KB		

The Internet connection summary section displays:

- **Time Connected** – the duration of the current connection.
- **Data Received** – the number of bytes received.
- **Data Transmitted** – the number of bytes transmitted.
- **IP Address** – the current Internet protocol address of the device.
- **Subnet Mask** – the current subnet mask address.

Wi-Fi Summary



Profile	Open	IP Address	192.168.1.1
Network Name (SSID)	Sprint MF140B2 00B	Subnet Mask	255.255.255.0
Security	None		
Connected Devices	1 / 5		

The Wi-Fi Summary section displays:

- **Profile** — the profile currently in use.
- **Network Name (SSID)** — the network name (also known as the SSID).
- **Security** — the security method in use.
- **Connected Devices** — the number of users currently connected to the device.

Note: A maximum of five users can connect at one time.

- **IP Address** — the IP Address for the wireless browser interface.
- **Subnet Mask** — the subnet mask for the wireless browser interface.

To change Wi-Fi settings, use the Wi-Fi menu. (See “The Wi-Fi Menu” on page 16.)

Section 2

Interface Settings



2A. Applications Menu

◆ The Applications Menu (page 12)

The Applications menu allows you to view the status of and select the policy for your VPN, to view the status of your microSD card, to enable file sharing, and to configure your landing page.



The Applications Menu

The Applications menu is divided into two sections:

- **File Sharing** — use to view the status of your microSD card and enable file sharing.
- **MiFi home settings** — use to configure the landing page and widgets.

File Sharing

Click **File Sharing** in the Applications menu to check the total space and available space on your microSD card and to enable file sharing.

The screenshot shows the Sprint MiFi 4525 web interface. At the top, there is a navigation bar with 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. Below this is a status bar showing 'Sprint MiFi Connected'. The main menu includes 'MiFi administration', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The 'Applications' menu is selected, and the 'File Sharing' section is active. The 'File Sharing' section is divided into two parts: 'microSD Card Status' and 'Configuration'. The 'microSD Card Status' section displays a table with the following information:

microSD Card	Available
Total Space	241.00 MB
Available Space	239.00 MB

The 'Configuration' section includes a checkbox for 'Enable File Sharing'. Below this, there are instructions for enabling file sharing: 'If enabled, MiFi users can access the microSD card by following the instructions below. For more information, consult the [MiFi 4525](#).' The instructions are: 1. Open 'My Computer'. 2. Click on the address bar at the top of the window. 3. Type the following text, then press the 'Enter' key: 192.168.1.1. There is a 'Share Name' input field with 'mifi' entered and an 'Authentication' dropdown menu set to 'No Authentication'. A warning box states: 'Warning: All Wi-Fi users will be able to open and modify files on the SD card. To prevent this, enable authentication and protect the username and password.' At the bottom of the configuration section are 'Apply' and 'Cancel' buttons. The footer of the page includes the Sprint logo and 'powered by MiFi 4525'.

The File Sharing Screen

The **File Sharing** screen is divided into two sections:

- **microSD Card Status**
- **Configuration**

microSD Card Status

The screenshot shows the 'microSD Card Status' section of the File Sharing screen. It displays a table with the following information:

microSD Card	Available
Total Space	241.00 MB
Available Space	239.00 MB

The microSD Card Status section displays the following:

- **microSD Card** – shows whether your microSD card is available or not available.
- **Total Space** – total KB of space on your microSD card.
- **Available Space** – total KB of available space on your microSD card.

Configuration

Configuration

Enable File Sharing
If enabled, MiFi users can access the microSD card by following the instructions below. For more information, consult the [MiFi 1160](#)

1. Open "My Computer".
2. Click on the address bar at the top of the window.
3. Type the following text, then press the "Enter" key.
192.168.1.1

Share Name:

Authentication:

Warning: All MiFi users will be able to delete and modify files on the SD card. To prevent this, enable authentication and protect the username and password.

The Configuration section displays the following:

- **Enable File Sharing** – check to allow guests to share information.
- **Share Name** – shows the name of the shared folder.
- **Authentication** – allows you to add password security for file sharing.

Click **Apply** to save your **File Sharing** configuration settings.

MiFi Home Settings

Click **MiFi home settings** in the Applications menu to select landing page and widget configuration options.

Sprint

Web, Admin | Landing Page | Logout | Help

Download

Sprint EvDO Rev.A Dormant

MiFi administration | **Applications** | Wi-Fi | WWAN | Router | System

MiFi home settings

Landing Page Configuration

Get Widget Data in advance when the MiFi is on: Home network only

How often should your MiFi update the widgets? 2 minutes

Widget Configuration

Widget Columns: 3

Widget	Enabled	Visible to Admin	Visible to Guest
Geosearch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Weather	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

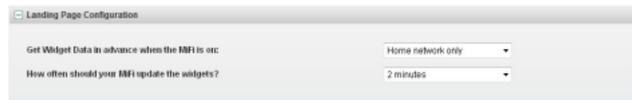
powered by MiFi
SP14002

The MiFi Home Settings Screen

The MiFi home settings screen is divided into two sections:

- **Landing Page Configuration**
- **Widget Configuration**

Landing Page Configuration



Landing Page Configuration

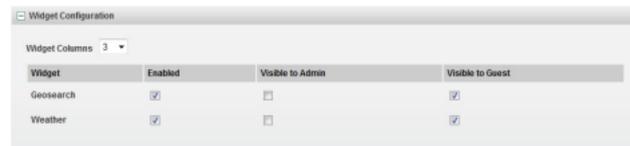
Get Widget Data in advance when the MiFi is on: Home network only

How often should your MiFi update the widgets?: 2 minutes

The Landing Page Configuration section displays the following:

- **Get Widget Data in advance when the MiFi is on** – allows you to set conditions under which widget data is collected.
- **How often should your MiFi update the widgets?** – allows you to set the amount of time between widget updates.

Widget Configuration



Widget Configuration

Widget Columns: 3

Widget	Enabled	Visible to Admin	Visible to Guest
Geosearch	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Weather	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The Widget Configuration section displays the following:

- **Widget Columns** – allows you to select the number of columns displayed on the landing page.
- **Widget configuration table** – shows the names of the available widgets, allows you to select which widgets are enabled, and allows you to select who can view the enabled widgets.

Click **Apply** to save your landing page and widget configuration settings.

2B. Wi-Fi Menu

◆ The Wi-Fi Menu (page 16)

The Wi-Fi menu allows you to work with profiles, set MAC filters, and view status information for the Wi-Fi network.



The Wi-Fi Menu

The Wi-Fi menu is divided into three sections:

- **Status** — use to view network profile information and see who is connected to the device. You can also retrieve your network key from this screen.
- **MAC Filter** — use to allow only certain devices to connect to your device and to manage your Trusted Client List.
- **Settings** — use to configure your Wi-Fi access point profile.

Status

Click **Status** in the Wi-Fi menu to view your network profile information and to view the profile of clients connected to your device.

Display Key. The 'Wi-Fi Connected Devices' section is a table with columns: IP Address, IP Type, Hostname, MAC Address, and DateTime. It lists three devices connected via DHCP and ARP. A 'Refresh' button is at the bottom right."/>

The Wi-Fi Status Screen

Hello, Admin | Landing Page | Logout | Help

Sprint

MFI Administration | Applications | **Wi-Fi** | WLAN | Router | System

Sprint eVO Rev. Connected

Wi-Fi Status

Wi-Fi Network

Current Profile	Open	Channel	1
Network Name (SSID)	Sprint MFI4002 (#7)	802.11 Mode	802.11b + 802.11g + 802.11n
Clients Allowed	5	Security	None
Clients Connected	3	Encryption	None
		Network Key	Display Key

Wi-Fi Connected Devices

IP Address	IP Type	Hostname	MAC Address	DateTime
192.168.1.100	DHCP	192.168.1.100	08:00:27:00:00:00	02/09/2011 8:43:57 pm UTC
192.168.1.101	DHCP	192.168.1.101	08:00:27:00:00:00	02/09/2011 8:46:54 pm UTC
192.168.1.102	ARP	192.168.1.102	08:00:27:00:00:00	

Refresh



powered by **MiFi**
MFI-K92

The Wi-Fi Status screen is divided into two sections:

- **Wi-Fi Network**
- **Wi-Fi Connected Devices**

Wi-Fi Network

Display Key."/>

Current Profile	Open	Channel	1
Network Name (SSID)	Sprint MFI4002 (#7)	802.11 Mode	802.11b + 802.11g + 802.11n
Clients Allowed	5	Security	None
Clients Connected	3	Encryption	None
		Network Key	Display Key

The Wi-Fi Network section displays the following:

- **Current Profile** – open or secure.
- **Network Name (SSID)** – name of the network you are connected to.
- **Clients Allowed** – the maximum number of clients that can connect to your device at the same time.
- **Clients Connected** – the number of clients currently connected to your device.
- **Channel** – the radio channel that the device is using.
- **802.11 Mode** – the type of wireless networking you are currently using.
- **Security** – the type of security the profile is using.

- **Encryption** — shows the type of encryption for the security type in use.
- **Network Key** — passcode or password used to access the network. The required format varies by type of security.

Tip: Some Wi-Fi clients become confused if the security is changed and the network name is not. If you change security settings and do not get asked for the new network key when you try to reconnect, delete the existing “old” network name from your “Preferred Networks” list. Then you can reconnect using the new network name.

Important: Record your network key.

Wi-Fi Connected Devices

IP Address	IP Type	Hostname	MAC Address	Date/Time
192.168.1.34	DHCP	192.168.1.34	08:00:27:1C:4E:54	02/09/2011 8:42:57 pm UTC
192.168.1.33	DHCP	192.168.1.33	08:00:27:1C:4E:54	02/09/2011 8:46:54 pm UTC
192.168.1.102	ARP	192.168.1.102	08:00:27:1C:4E:54	

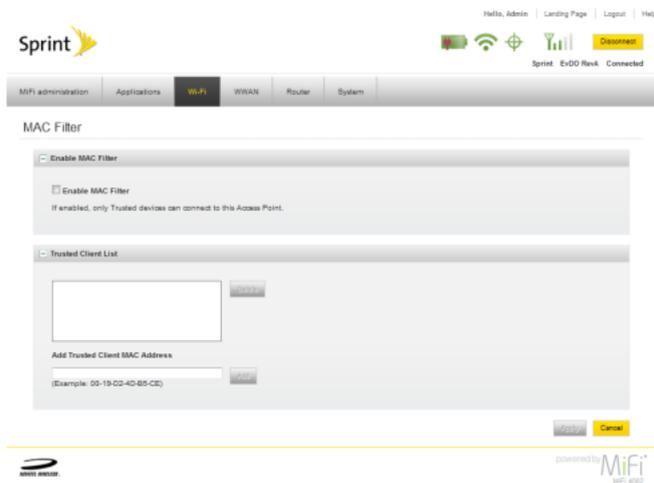
The Wi-Fi Connected Devices section displays the following:

- **IP Address**
- **IP Type**
- **Hostname**
- **MAC Address**
- **Date/Time**

Click **Refresh** to update the information on the clients that are connected to your device.

MAC Filter

Click **MAC Filter** in the Wi-Fi menu to limit access to your device to only those devices with a specified MAC address (a unique code assigned to hardware such as network adapters).



The MAC Filter Screen

The MAC Filter screen is divided into two sections:

- **Enable MAC Filter**
- **Trusted Client List**

Enable MAC Filter



The Enable MAC Filter section provides you with the option to enable Trusted Clients to connect to your device. Select the **Enable MAC Filter** check box to enable this feature.

Important: Do not enable MAC filtering until you have first added your own MAC address to the trusted client list. Otherwise you will be unable to access the device.

Trusted Client List



The Trusted Client List section displays the following:

- **Current list of Trusted Clients** – you can select and delete clients from this list.
- **Add Trusted Client MAC Address** – you can enter and add a Trusted Client MAC address.

Finding the MAC Address

The MAC Address is also known as a hardware or physical address for a device, usually a network adapter. It consists of six pairs of numbers and letters (for example, **00-21-9B-1C-64-34**).

You can view the MAC address for any device connected to your device in the Wi-Fi Connected Devices section of the Wi-Fi Status screen. (See “Wi-Fi Connected Devices” on page 18.)

- ▶ On a Windows machine, you can find the MAC address by running “ipconfig /all” from the Command Prompt window. The MAC address is referred to as the physical address. (**Select Start > All Programs [or Programs] > Accessories > Command Prompt** to open the Command Prompt window.)
- ▶ On a Mac, open **System Preferences > Network**. In the Show list, click **Airport**. The MAC address is the Airport ID.

Important: Make sure you get the MAC address for the wireless network adapter and not the Ethernet controller (NIC) if the machine has both.

Using MAC Filtering

1. From the MAC Filter screen, type the MAC address for your computer into the Add Trusted Client MAC Address box and click **Add**. You can use either “:” or “-” as the separator (for example, **00:21:9B:1C:64:34** or **00-21-9B-1C-64-34**).

Tip: You can cut-and-paste your computer’s address from the Wi-Fi Connected Devices section of the Wi-Fi Status screen. (See “Wi-Fi Connected Devices” on page 18.)

2. If desired, type the MAC address for other computers into the Add Trusted Client MAC Address box and click **Add**.
3. Select the Enable MAC Filter check box and click **Apply**.

Settings

Click **Settings** in the Wi-Fi menu to view and configure your Wi-Fi access point profile.

The screenshot displays the Sprint Wi-Fi Settings interface. At the top, the Sprint logo is visible. Below it, a navigation bar includes 'MiFi Administration', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The 'Wi-Fi' tab is active. The main content area is titled 'Wi-Fi Settings' and is divided into three sections: 'Wi-Fi Access Point', 'Open Profile', and 'Secure Profile'. In the 'Wi-Fi Access Point' section, the 'Profile' is set to 'Open', 'Maximum number of Wi-Fi devices' is set to 5, and the 'Broadcast Network Name (SSID)' checkbox is checked. A warning message indicates that open security is not recommended. The 'Open Profile' section shows the 'Network Name (SSID)' as 'Sprint MiFi4082 (W7)', the '802.11 Mode' as '802.11b + 802.11g + 802.11n', the 'Channel' as 'Auto', and the 'Security' as 'None'. At the bottom of the settings area, there are 'Apply' and 'Cancel' buttons. The Sprint logo and 'powered by MiFi' branding are also visible at the bottom of the page.

The Wi-Fi Settings Screen

The Wi-Fi Settings screen is divided into three sections:

- **Wi-Fi Access Point**
- **Open Profile**
- **Secure Profile**

Wi-Fi Access Point



The Wi-Fi Access Point section displays the following:

- **Profile** – shows the active Wi-Fi Access Point profile and allows you to select between an Open and Secure profile.
- **Maximum number of Wi-Fi devices** - allows you to select the maximum number of connectable devices.
- **Broadcast Network Name (SSID)** – allows you choose whether to broadcast the network name, allowing others to see it on their devices.

Open Profile



The Open Profile section displays the following:

- **Network Name (SSID)** – shows the name of the active Wi-Fi network.
- **802.11 Mode** – allows you to select between various mode options.
- **Channel** – allows you to select the channel configuration.
- **Security** – shows what type of security is active.

Secure Profile

Secure Profile

Network Name (SSID) Sprint MF14082 2EF Secure

802.11 Mode 802.11b + 802.11g + 802.11n

Channel Auto

Security WPA/WPA2 Mixed Mode

Authentication Open

Encryption TKIP, AES

Network Key J509FUJSTJX3F
8 - 63 ASCII characters

WPS WPS Push This button has the same effect as the hardware WPS button.

Apply Cancel

The Secure Profile section displays the following:

- **Network Name (SSID)** – shows the name of the active Wi-Fi network.
- **802.11 Mode** – shows the active 802.11 Mode and allows you to select between available 802.11 Mode options.
- **Channel** – shows the active channel configuration and allows you to select between channel configuration options.
- **Security** – shows the active security and allows you to select between security options.

- **Authentication** – shows the active authentication requirements.
- **Encryption** – shows the active type of encryption.
- **Network Key** – shows the active network key (password).
- **WPS** – provides the option to setup WPS.

Click **Apply** to update the Wi-Fi Settings configuration options.

Setting Up WPS (Wi-Fi Protected Setup)

You can set up WPS to make the 802.11 security features easier to configure. WPS automatically configures the network name (SSID) and WPA security key for your device and for wireless clients.

Important: Pressing the WPS button enables Wi-Fi security settings, requiring a security key to connect to the device. Each device has a unique security key that can be found either on the battery cover or by connecting your device via USB and going to your landing page (page 7).

Note: WPS does not apply to ad hoc Wi-Fi networks. It can be used only with an access point.

Note: Windows XP does not support WPS. Additional software is required to use WPS.

There are two methods available to set up WPS. Choose from the following:

- Push Method
- PIN Method

Using the Push Method to Set Up WPS

On your device:

1. From the Secure Profile section of the Wi-Fi Settings page, click **WPS Setup**.

Secure Profile

Network Name (SSID) Sprint MF14082 08B Secure

BSSID Mode 802.11b + 802.11g + 802.11n

Channel Auto

Security WPAWPA2 Mixed Mode

Authentication Open

Encryption TKIP, AES

Network Key New@5ive

8 - 63 ASCII characters

WPS **WPS Setup** This button has the same effect as the hardware WPS button.

Apply Cancel

2. Select **Push Method** from the **WPS Method** menu.

WPS

Select the WPS Enrollment method and click "Start".

WPS Method Push Method

Start Cancel

3. Click **Start**.
4. Wait for clients to enroll. Typically the enrollment period is 60 seconds. A message appears to indicate which clients successfully enrolled.

Tip: The Secure Profile option must be active to use WPS. Select **Secure** from the Wi-Fi Access Point section of the Wi-Fi Settings screen to activate.

On the client device:

1. From the Wi-Fi client software, navigate to the WPS setup option.

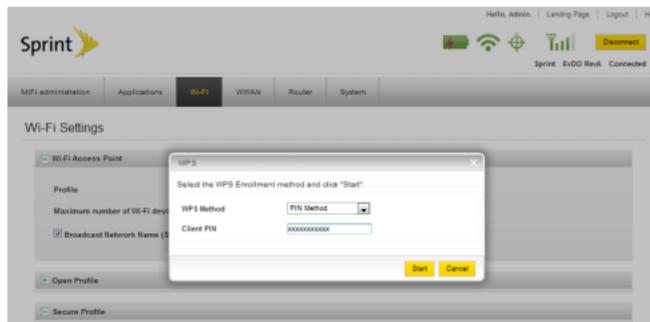


2. After selecting the WPS Push Method on your device, click the WPS button on the client software.
3. Wait for the client to complete the enrollment process. A message appears to indicate that enrollment succeeded or failed.

Using the PIN Method to Set Up WPS

On your device:

1. From the Secure Profile section of the Wi-Fi Settings page, click **WPS Setup**.
2. Select **PIN Method** from the **WPS Method** menu.
3. Enter the client's PIN and click **Start**.



4. Wait for the enrollment process to complete. A message appears to indicate that enrollment succeeded or failed.

Click **Apply** to update the Wi-Fi Settings configuration options.

2C. WWAN Menu

◆ The WWAN Menu (page 26)

The WWAN menu allows you to update your Preferred Roaming List (PRL), displays information about your Sprint connection, and provides tools for technical support.



The WWAN Menu

The WWAN Menu is divided into four sections:

- **Status** — view your Internet connection or Sprint network connection status, view information about your TCP/IP connection, or view the event log (see “WWAN Log” on page 28) about your connections to the Sprint network.
- **3G** — view your Sprint network connection status, information about your device, the traffic counter, or update your PRL.
- **4G** — view your Sprint network connection status, information about your device, or the traffic counter.
- **Settings** — configure your connection and network options.

Status

Click **Status** in the WWAN menu to check the status of your Internet connection, TCP/IP, and to view the WWAN log.

The screenshot shows the Sprint mobile device interface. At the top, there is a status bar with the Sprint logo, signal strength indicators, and a 'Connect' button. Below the status bar is a navigation menu with options: MFI Administration, Applications, WiFi, WWAN (highlighted), Router, and System. The main content area is titled 'WWAN Status' and contains three sections:

- Internet Connection Summary:** A table showing connection details.

Connection Status	Connected	Time Connected	00:41:30
Network	Sprint	Data Received	2.40 MB
Technology	EvDO RevA	Data Transmitted	6.02 MB
Workmode	2		
Roaming	Not Roaming		
- TCP/IP:** A table showing network configuration details.

IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS	8.8.8.8
- WWAN log:** A large empty text area for viewing connection logs, with a 'Refresh' button at the bottom right.

The WWAN Status screen is divided into three sections:

- **Internet Connection Summary**
- **TCP/IP**
- **WWAN log**

Internet Connection Summary

The screenshot shows the 'Internet Connection Summary' section of the WWAN Status screen. It displays a table with the following data:

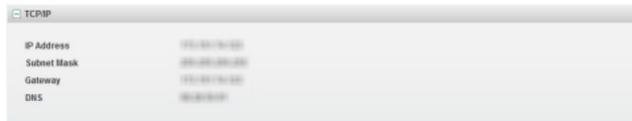
Connection Status	Connected	Time Connected	00:03:52
Network	Sprint	Data Received	4.74 MB
Technology	EvDO RevA	Data Transmitted	319.30 KB
Workmode	2		
Roaming	Not Roaming		

The Internet Connection Summary section displays the following:

- **Connection Status** – the status of your Internet connection.
- **Network** – the name of your network operator.
- **Technology** – the type of network connection.
- **Workmode** – the type of current workmode.
- **Roaming** – the device's roaming status.
- **Time Connected** – the duration of the current connection.

- **Data Received** – the number of bytes received.
- **Data Transmitted** – the number of bytes transmitted.

TCP/IP



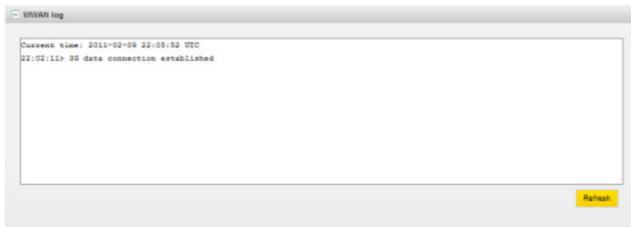
TCP/IP	
IP Address	172.31.1.100
Subnet Mask	255.255.255.255
Gateway	172.31.1.100
DNS	192.168.1.1

The TCP/IP section displays the following:

- **IP Address** – the current Internet protocol address of the device.
- **Subnet Mask** – the current subnet mask address.
- **Gateway** – the current network point entrance address.
- **DNS** – the current domain name system address.

WWAN Log

The WWAN log section lists network connection events and times for the current session only. Sprint technical support uses the log as a troubleshooting tool.



WWAN log	
Current time:	2011-02-09 22:08:52 UTC
22:02:13>	3G data connection established

Refresh

3G

Click **3G** in the WWAN menu to access status information about your 3G Internet connection and your device.

The screenshot shows the Sprint MiFi administration interface. At the top, there is a navigation bar with 'Sprint' logo and status indicators for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. Below this is a menu with 'MiFi administration', 'Applications', 'WiFi', '3G Network', 'Router', and 'System'. The '3G Network' section is expanded, showing the following data:

3G Network			
3G Network	Available	RSSI	-90 dBm
Technology	EvDO RevA	EcIo	-18
Network Operator	Sprint	SID	4145
Workmode	2		

The '3G Modem' section shows the following data:

3G Modem			
Manufacturer	Novatel Wireless	MDN	013470024
Model	MP14082 SPRINT	MSID	0133770138
Firmware Version	2.0.10.104-09 [2011-01-25 14:24	HW	novatelmi7@sprintps.com
MEID	A15000138002EF	PHL Version	00674
ESN	Not Available		

The 'Traffic Counters' section shows the following data:

Traffic Counters	
Start Date	1/3/2011
Total Connect Time	03:41:55
Data Received	35.89 MB
Data Transmitted	30.83 MB
Total Data	66.43 MB

At the bottom, there is a '+ Service Updates' section.

The 3G Screen

The 3G screen is divided into four sections:

- **3G Network**
- **3G Modem**
- **Traffic Counters**
- **Service Updates**

3G Network

The close-up screenshot shows the '3G Network' section with the following data:

3G Network			
3G Network	Available	RSSI	-90 dBm
Technology	EvDO RevA	EcIo	-23
Network Operator	Sprint	SID	4145
Workmode	2		

The 3G Network section displays the following:

- **3G Network** – available or unavailable.
- **Technology** – type of network you are connected to.
- **Network Operator** – name of your network operator.
- **Workmode** – the type of current workmode.
- **RSSI** – measurement in dBm of signal strength.



- **Ec/Io** — measurement of the portion of the signal that is usable.
- **SID** — subscriber identification number.

3G Modem

3G Modem			
Manufacturer	Novatel Wireless	MDN	0112770000
Model	MFI4002 SPRINT	MSID	0112770100
Firmware Version	2.0.10.154-00 [2011-01-25 14:24]	NAI	msid@msid.com
MEID	0112770000	PRL Version	00574
ESN	Not Available		

The 3G Modem section displays the following:

- **Manufacturer** — manufacturer of your device.
- **Model** — model name or number of the device.
- **Firmware Version** — current internal software (firmware) version.
- **MEID** — unique number the network uses to identify your device.
- **ESN** — unique identifying number embedded in your device.
- **MDN** — public ID for your specific wireless service.
- **MSID** — internal ID Sprint uses to identify your account.

- **NAI** — address of your device on the Sprint network.
- **PRL Version** — use to verify that your PRL (Preferred Roaming List) is the most current.

Traffic Counters

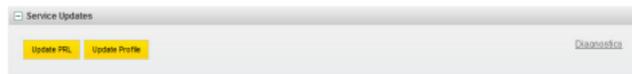
Note: This section should be used for informational purposes only and should not be relied upon for billing data.

The Traffic Counters section displays the following information for the current session only and does not show cumulative data over multiple sessions:

- **Start Date** — the month, day and year of inception of the current session.
- **Total Connect Time** — the duration of the current connection.
- **Data Received** — the number of bytes received.
- **Data Transmitted** — the number of bytes transmitted.
- **Total Data** — the total data received and transmitted.

Traffic Counters	
Start Date	1/3/2011
Total Connect Time	04:10:38
Data Received	45.05 MB
Data Transmitted	36.35 MB
Total Data	81.40 MB

Service Updates



The Service Updates section allows you to update your Preferred Roaming list and your network profile, and access diagnostic information.

- ▶ Click **Update PRL** to update your Preferred Roaming List.
- ▶ Click **Update Profile** to update your network profile.
- ▶ Click **Diagnostics** to access status information about your Internet connection and the device.

Tip: You should update your PRL about every three months to make sure you have the latest enhancements from Sprint.

4G

Click **4G** in the WWAN menu to access status information about your 4G Internet connection and your device.

4G

4G Network

4G Network	Not Available	TX Power	0 dBm
Network Operator	Sprint	Center Frequency	Not Set
RSSI	-120 dBm	Preamble	0
BSID	0	NSP-ID	0
CINR	0 dB	NAP-ID	0

[Erase Data](#)

4G Modem

Package Version	5.2.7.3
Firmware Version	5.2.2889
Library Version	5.2.0070
Driver Version	5.2.00
MAC Address	98:00:01:00:00:00

Traffic Counters

Start Date	12/31/1989
Total Connection Time	00:00:00
Data Received	0.00 KB
Data Transmitted	0.00 KB
Total Data	0.00 KB



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The 4G Screen

The 4G screen is divided into three sections:

- **4G Network**
- **4G Modem**
- **Traffic Counters**

4G Network

4G Network	Not Available	TX Power	0 dBm
Network Operator	Sprint	Center Frequency	Not Set
RSSI	-120 dBm	Preamble	0
BSID	0	HSP-ID	0
CINR	0 dB	NAP-ID	0

Scan Now

The 4G Network section displays the following:

- **4G Network** — available or disabled.
- **Network Operator** — name of your network operator.
- **RSSI** — measurement in dBm of signal strength.
- **BSID** — the number of biometrics secured identification devices available or connected.
- **CINR** — carrier to interface and noise ratio measurement in dBm.

- **TX Power** — measurement of power transmitted in dBm.
- **Center Frequency** — displays whether a center frequency (midpoint between the upper and lower cutoff frequencies) point has been set.
- **Preamble** — the number of preambles detected by the access point.
- **NSP-ID** — the number of network service provider identifiers detected.
- **NAP-ID** — the number of network access point identifiers detected.

4G Modem

Package Version	5.2.7.3
Firmware Version	5.2.2899
Library Version	5.2.0076
Driver Version	5.2.50
MAC Address	00:0C:29:00:00:00

The 4G Modem section displays the following:

- **Package Version** — the current package version.
- **Firmware Version** — the current firmware version.
- **Library Version** — the current library version.

- **Driver Version** — the current driver version.
- **MAC Address** — the current media access control address.

Traffic Counters

Note: This section should be used for informational purposes only and should not be relied upon for billing data.

Traffic Counters	
Start Date	12/11/2009
Total Connection Time	00:00:00
Data Received	0.00 KB
Data Transmitted	0.00 KB
Total Data	0.00 KB

The 4G Traffic Counters section displays the following information for the current session only and does not show cumulative data over multiple sessions:

- **Start Date** — the month, day and year of inception of the current session.
- **Total Connection Time** — the duration of the current connection.
- **Data Received** — the number of bytes received.
- **Data Transmitted** — the number of bytes transmitted.
- **Total Data** — the total data received and transmitted.

Settings

Click **Settings** in the WWAN menu to access Internet and network connection options for your device.

The screenshot shows the Sprint Mifi administration web interface. At the top, there are navigation links for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. The main navigation bar includes 'Mifi administration', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The 'WWAN' tab is selected. Below the navigation bar, the 'WWAN Settings' section is displayed, divided into two sub-sections: 'Connection Options' and 'Network Options'. In the 'Connection Options' section, 'Auto-connect enable' is checked, 'Allow Guest users to manually connect to the internet' is unchecked, and 'Enable the WWAN log' is unchecked. A 'View Configuration' button is visible. In the 'Network Options' section, 'WWAN Mode' is set to '4G Preferred', 'Failover Wait Time' is '5 seconds', 'Switchback Wait Time' is '300 seconds', and 'Roaming' is set to 'Automatic'. An 'Allow International Roaming' checkbox is present and unchecked. 'Apply' and 'Cancel' buttons are at the bottom right.



The WWAN Settings screen is divided into two sections:

- **Connection Options**
- **Network Options**

Connection Options

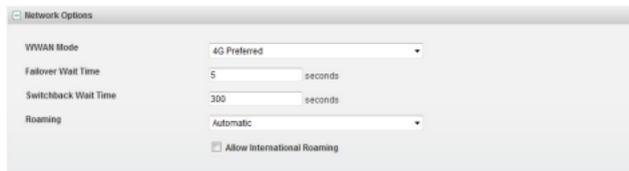


The Connection Options section displays the following:

- **Auto-connect enable** – check to set your device to automatically connect to the Internet.
- **Allow Guest users to manually connect to the internet** – check to allow guests to connect to the Internet.
- **Enable the WWAN log** – check to activate the event log. (See “WWAN Log” on page 28.)
- **Manual Configuration/Data Link Setup** – click to manually configure connection options or to configure Data Link Setup.

Note: The Data Link Setup option is generally applicable to corporate enterprise users configuring connection options for multiple users.

Network Options



The Network Options section displays the following:

- **WWAN Mode** – select from 3G, 4G, 3G Preferred, or 4G Preferred.
- **Failover Wait Time** – enter the number of seconds for the device to scan for 4G before going to 3G.
- **Switchback Wait Time** – enter the number of seconds for the device to wait before rescanning for 4G.
- **Roaming** – select **Automatic** or **Home network only**.
- **Allow International Roaming** – check to allow international roaming.

2D. Router Menu

- ◆ The Router Menu (page 35)

The Router menu allows you to configure your Port Filtering and Port Forwarding options, manage TCP/IP, and enable or disable VPN Passthrough.



The Router Menu

The Router Menu is divided into four sections:

- **Port Filtering** — use to specify which applications can access the Internet and through which port(s).
- **Port Forwarding** — use to specify which applications can access your computer through the Internet and through which port(s) (e.g., if you have an FTP server on your system or play certain online games).
- **TCP/IP** — use to view or change the IP Address and subnet mask for your device and to view the MAC address and DHCP address range for your device.
- **Settings** — use to enable or disable VPN Passthrough.

Note: If your device switches from the 3G network to the 4G network during a VPN session, that session will be disconnected and you will need to reconnect to your VPN on the new network.

Port Filtering

Click **Port Filtering** in the Router menu to enable port filtering, allow selected applications Internet access, and set up custom application Internet access.

The screenshot shows the Sprint router's web interface. At the top, there is a navigation bar with the Sprint logo and a menu with items: MFI administration, Applications, W-LAN, WISLAN, Router (highlighted), and System. Below the menu is the 'Port Filtering' section. It contains three sub-sections: 'Filter Outgoing Traffic' with an 'Enable Port Filtering' checkbox and a note; 'Allowed Applications' with checkboxes for DNS, HTTP, HTTPS, FTP, E-mail (POP3), E-mail (IMAP), Telnet, and RTP; and 'Custom Applications' with six numbered input fields. At the bottom right are 'Apply' and 'Cancel' buttons.

The Port Filtering Screen

The Port Filtering screen is divided into three sections:

- **Filter Outgoing Traffic**
- **Allowed Applications**
- **Custom Applications**

Filter Outgoing Traffic

This screenshot shows the 'Filter Outgoing Traffic' section of the configuration page. It features a title bar, a checkbox for 'Enable Port Filtering', and a note: 'If enabled, only traffic from Allowed Applications can access the internet.'

The Filter Outgoing Traffic section allows you to limit Internet access to traffic from Allowed Applications only.

Allowed Applications

This screenshot shows the 'Allowed Applications' section of the configuration page. It features a title bar and a list of checkboxes for various applications: DNS (Domain Name Server), HTTP, HTTPS, FTP, E-mail (POP3), E-mail (IMAP), Telnet, and RTP.

The Allowed Applications section displays the following:

- **DNS (Domain Name Server)** - select to allow/enable domain name server.
- **HTTP** – select to allow/enable hypertext transfer protocol.
- **HTTPS** – select to allow/enable secure hypertext transfer protocol.
- **FTP** – select to allow/enable file transfer protocol.
- **E-mail (POP3)** – select to allow/enable post office protocol version 3.
- **E-mail (IMAP)** – select to allow/enable threat model and analysis program.
- **Telnet** – select to allow/enable telephone network.
- **RTP** – select to allow/enable real-time transport protocol.

To select Allowed Applications:

1. From the Port Filtering screen, select the **Enable Port Filtering** check box.
2. Select the check boxes for the applications you want to allow Internet access.

3. Click **Apply**.

Note: The device uses standard ports for these applications. If you have applications that do not use the standard ports or that are not listed under Allowed Applications, use Custom Applications.

Custom Applications

The screenshot shows a window titled "Custom Applications" with a list of six entries. Each entry consists of a number (1 through 6), a checkbox, and a text input field. The checkboxes are currently unchecked. At the bottom right of the window, there are two buttons: "Apply" and "Cancel".

The Custom Applications section allows you to enter custom application information to include in your list of Allowed Applications.

To set up port filtering for a custom application, you will need to know the port numbers (up to five ports or port ranges) and the protocol (TCP, UDP, or both) the application uses for its outgoing traffic.

1. From the Port Filtering screen, select the **Enable Port Filtering** check box.

2. Click **Custom Applications**.
3. Enter a name for the application and click the **Ports** link to the right of the text box.
4. Enter the port or port range. You can enter up to five ports or port ranges.
 - Single port — enter the same port number in both fields.
 - Port range — enter the beginning port number in the left field and the ending port number in the right field.
5. For each port number or range, select the protocol (TCP, UDP, or both) used by that port or port range.
6. Click **Hide**.
7. Click **Apply**.

Port Forwarding

Click **Port Forwarding** in the Router menu to enable designated users or applications to reach specified servers, such as FTP and DNS servers, on your computer. Also, some online games require incoming access to work properly.

The screenshot shows the Sprint router's web interface. At the top, there's a navigation bar with 'Router' highlighted. Below it, the 'Port Forwarding' section is active. It contains two main configuration areas:

Port Forwarding Applications

Application	IP Address of Wi-Fi Client
<input type="checkbox"/> DNS (Domain Name Server)	<input type="text"/>
<input type="checkbox"/> FTP Server	<input type="text"/>
<input type="checkbox"/> HTTP (Web) Server	<input type="text"/>
<input type="checkbox"/> NNTP Server	<input type="text"/>
<input type="checkbox"/> POP3 Server	<input type="text"/>
<input type="checkbox"/> SMTP Server	<input type="text"/>
<input type="checkbox"/> SNMP Server	<input type="text"/>
<input type="checkbox"/> Telnet Server	<input type="text"/>
<input type="checkbox"/> TFTP Server	<input type="text"/>

Custom Applications

Application	Incoming Port Range	Protocol	IP Address of Client
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>
<input type="checkbox"/> <input type="text"/>	<input type="text"/> - <input type="text"/>	TCP/UDP <input type="text"/>	<input type="text"/>

Note: You cannot use port forwarding with a standard Sprint data account. To use port forwarding, you must request a static IP (sometimes called public IP) address. Contact your direct sales representative or Sprint Customer Service to purchase a static IP Address for mobile applications.

Important: You will need to set up static IP addresses on your WLAN for each device that has an application you want to forward.

Port Forwarding Applications

Application	IP Address of WiFi Client
<input type="checkbox"/> DNS (Domain Name Server)	<input type="text"/>
<input type="checkbox"/> FTP Server	<input type="text"/>
<input type="checkbox"/> HTTP (Web) Server	<input type="text"/>
<input type="checkbox"/> NNTP Server	<input type="text"/>
<input type="checkbox"/> POP3 Server	<input type="text"/>
<input type="checkbox"/> SMTP Server	<input type="text"/>
<input type="checkbox"/> SNMP Server	<input type="text"/>
<input type="checkbox"/> Telnet Server	<input type="text"/>
<input type="checkbox"/> TFTP Server	<input type="text"/>

The Port Forwarding Screen

The Port Forwarding screen is divided into two sections:

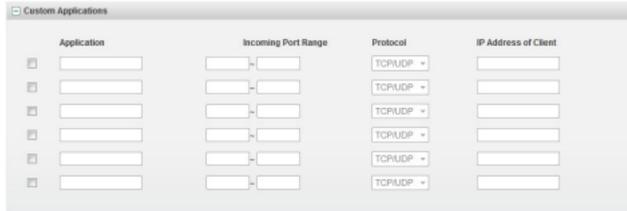
- **Port Forwarding Applications**
- **Custom Applications**

The Port Forwarding Applications section allows you to enter the local static IP Address for each application that you want to receive traffic from the Internet.

1. From the Port Forwarding screen, select the check box for the application you want to enable.
2. Type the local static IP Address of the device hosting the application into the IP Address on WLAN box.
3. Click **Apply** when you have finished adding applications.

Important: Port forwarding creates a security risk and should be disabled when not needed.

Custom Applications

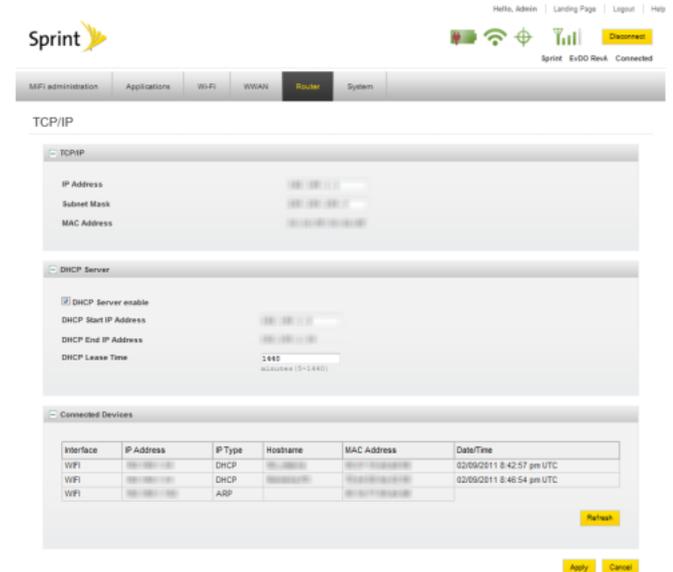


The Custom Applications section allows you to forward unrecognized incoming traffic to a specified client.

1. From the Port Forwarding screen, select the check box for an unused Application field.
2. Type the application name, incoming port range and IP Address of the specified client, and select the protocol.
3. Click **Apply**.

TCP/IP

Click **TCP/IP** in the Router menu to view the local (WLAN) IP Address and the MAC address for your device, to enable the DHCP Server, and to view information on the clients connected to your device.



Help, Admin | Landing Page | Logout | Help

Sprint

Disconnected

Sprint Ev-DO Rev. Connected

WiFi Administration Applications WiFi WWAN **Router** System

TCP/IP

TCP/IP

IP Address: 192.168.1.1
Subnet Mask: 255.255.255.0
MAC Address: 98:96:34:10:10:10

DHCP Server

DHCP Server enable
DHCP Start IP Address: 192.168.1.2
DHCP End IP Address: 192.168.1.10
DHCP Lease Time: 1440 minutes (10-1440)

Connected Devices

Interface	IP Address	IP Type	Hostname	MAC Address	Date/Time
WiFi1	192.168.1.10	DHCP	98-96-34-10-10-10	98:96:34:10:10:10	02/09/2011 8:42:57 pm UTC
WiFi1	192.168.1.11	DHCP	98-96-34-10-10-10	98:96:34:10:10:10	02/09/2011 8:46:54 pm UTC
WiFi1	192.168.1.100	ARP	98-96-34-10-10-10	98:96:34:10:10:10	

Refresh

Apply Cancel

The TCP/IP Screen

The TCP/IP screen is divided into three sections:

- **TCP/IP**
- **DHCP Server**
- **Connected Devices**

TCP/IP

Field	Value
IP Address	192.168.1.1
Subnet Mask	255.255.255.0
MAC Address	00:0C:29:00:00:00

The TCP/IP section displays the following:

- **IP Address** — the current Internet protocol address of the device.
- **Subnet Mask** — the current subnet mask address.
- **MAC Address** — the current media access control address.

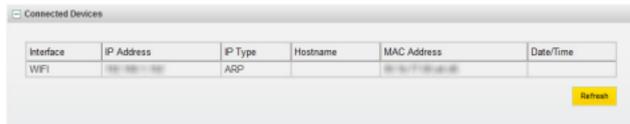
DHCP Server

Field	Value
DHCP Server enable	<input checked="" type="checkbox"/>
DHCP Start IP Address	192.168.1.1
DHCP End IP Address	192.168.1.254
DHCP Lease Time	1440 minutes (5-1440)

The DHCP Server section displays the following:

- **DHCP Server enable** — select to enable the dynamic host configuration protocol server.
- **DHCP Start IP Address** — the current beginning dynamic host configuration protocol IP address.
- **DHCP End IP Address** — the current ending dynamic host configuration protocol IP address.
- **DHCP Lease Time** — the current dynamic host configuration protocol lease time in minutes.

Connected Devices



Interface	IP Address	IP Type	Hostname	MAC Address	Date/Time
WIFI	192.168.1.100	ARP		08:00:27:00:00:00	

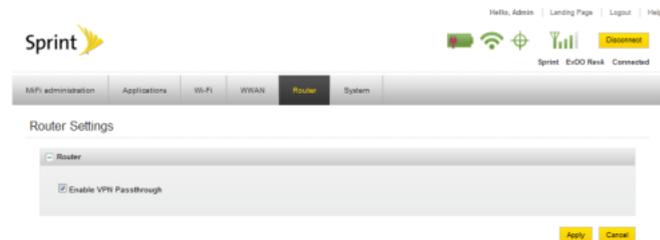
The Connected Devices section displays the following:

- **Interface** – the type of connected device.
- **IP Address** – the current Internet protocol address of the device.
- **IP Type** – the current type of IP service provided over the network.
- **Hostname** – the unique name identifying the network-attached device.
- **MAC Address** – the current media access control address.
- **Date/Time** – the date and time the device was connected.

Click **Apply** to save and enable your changes.

Settings

Click **Settings** in the Router menu to access the Router Settings screen.



The Router Settings Screen

The Router Settings screen allows you to select and activate the **Enable VPN Passthrough** option by checking the box.

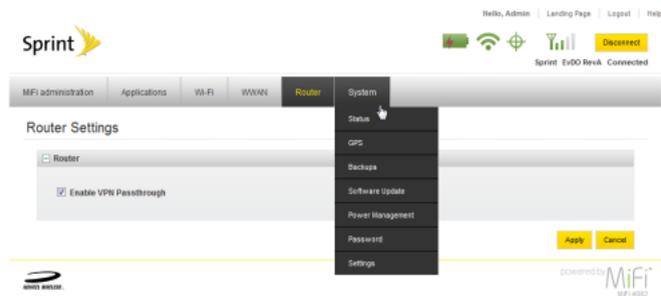
Note: A virtual private network (“VPN”) is a secure private network that can be accessed remotely. It is commonly used to connect to an office network from elsewhere. This option allows you to enable or disable this function.

Click **Apply** to save and enable your VPN passthrough change.

2E. System Menu

◆ The System Menu (page 43)

The System menu allows you to view system hardware and software information, enable and configure GPS searching, install network software updates, change your administration password, and customize your device's power management.



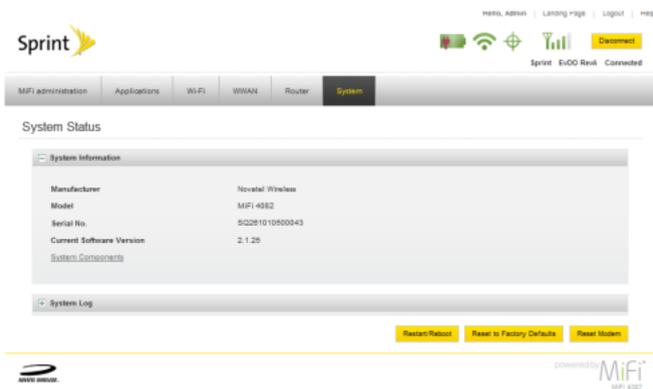
The System Menu

The System Menu is divided into seven sections:

- **Status** — use to view system information and the System Log.
- **GPS** — use to enable and configure GPS searching for your device.
- **Backups** — use to back up or restore a file containing your device settings.
- **Software Update** — use to view the software version history and to check for and install network updates.
- **Power Management** — use to customize your device's power-saving settings, to improve the battery life of your device and to switch off the LEDs on your device.
- **Password** — use to change your administration password.
- **Settings** — use to enable the System log and USB connection and to configure localization.

Status

Click **Status** in the System menu to view information about your system hardware and software, and to check the system usage history. You can also restart or reset your device from the Status screen.



System Information

System Information	
Manufacturer	Novatel Wireless
Model	MFI 4082
Serial No.	SQ281010500043
Current Software Version	2.1.25
System Components	

The System Information section displays the following:

- **Manufacturer** – the current device manufacturer.
- **Model** – the current device model name/number.
- **Serial No.** – the current device serial number.
- **Current Software Version** – the current system software version.
- **System Components:**
 - Access Point Firmware Version
 - Router Firmware Version
 - 3G Modem Firmware Version
 - 4G Modem Firmware Version
 - Kernel Version
 - SDK Version
 - Web UI Version
 - UA Version

The System Status Screen

The System Status screen is divided into two sections:

- **System Information**
- **System Log**

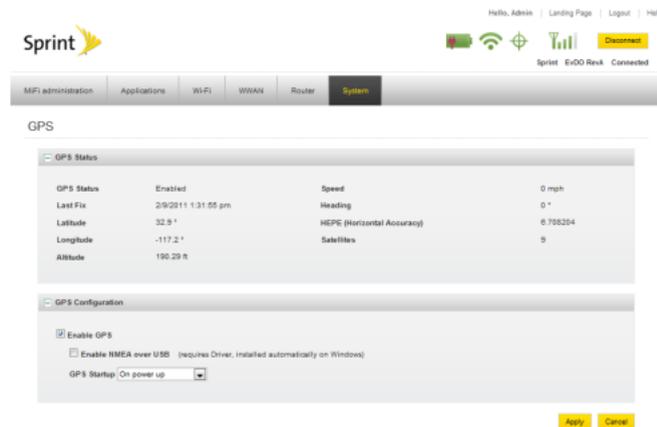
System Log



The System Log section displays the usage history for your device for the current session only, including date and time information for each session.

GPS

Click **GPS** in the System menu to enable and configure GPS searching for your device.

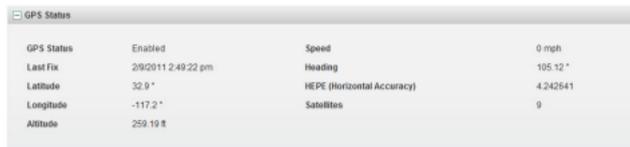


The GPS Screen

The GPS screen is divided into two sections:

- **GPS Status**
- **GPS Configuration**

GPS Status



GPS Status			
GPS Status	Enabled	Speed	0 mph
Last Fix	2/9/2011 2:49:22 pm	Heading	105.12 °
Latitude	32.9 °	HEPE (Horizontal Accuracy)	4.242641
Longitude	-117.2 °	Satellites	9
Altitude	259.19 ft		

The GPS Status section displays the following information once a location fix has been made:

- **GPS Status** – enabled or disabled.
- **Last Fix** – day, month, year and time of the most recent GPS fix.
- **Latitude** – current latitude of the device.
- **Longitude** – current longitude of the device.
- **Altitude** – current altitude of the device measured in feet.
- **Speed** – speed of data in miles per hour transmitted from the satellite to the device.
- **Heading** – current heading of the device.
- **HEPE (Horizontal Accuracy)** – horizontal estimated position error measurement of the device.
- **Satellites** – number of satellites currently visible.

GPS Configuration

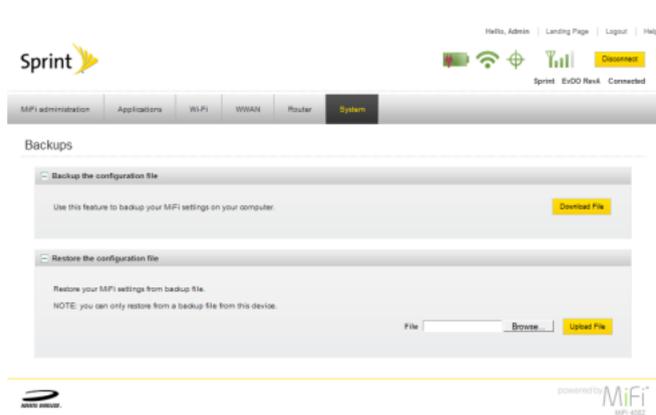
The GPS Configuration section allows you to configure the GPS settings.



1. Select the **Enable GPS** check box to turn on GPS.
2. Select the **Enable NMEA over USB** check box to receive NMEA location data through a USB connection.
3. Select the desired GPS startup option from the **GPS Startup** menu.
4. Click **Apply** to confirm the settings.

Backups

Click **Backups** in the System menu to back up your configuration file (device settings) to your computer or to restore a saved configuration file from your computer.



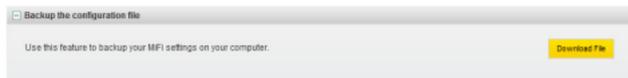
The Backups Screen

The Backups screen is divided into two sections:

- **Backup the configuration file**
- **Restore the configuration file**

Backup the Configuration File

The Backup the configuration file section allows you to backup your device's configuration file to your computer.



1. Click **Download File**.
2. Click **Save** to place the file “**nvtlconfig.bin**” on your computer. You may rename the file. (If the file opens in your browser instead of downloading, use your browser's File menu to save the file to your computer.)

Restore the Configuration File

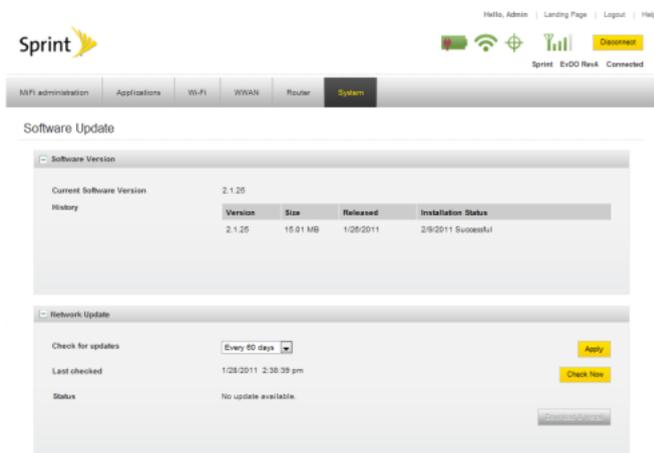
The Restore the configuration file section allows you to restore a configuration file backed up on your computer to your device.



1. Click **Browse** and navigate to the backup file on your computer.
2. Click the file to highlight it and then click **Open**.
3. Click **Upload File**.
4. Click **OK** when the "Upload completed" message appears.

Software Update

Click **Software Update** in the System menu to view the software version release and installation history and to check for and install network updates.

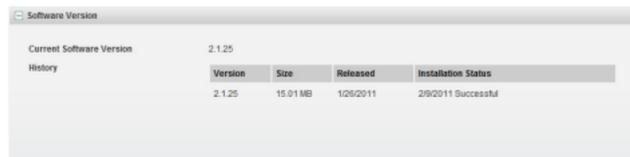


The Software Update Screen

The Software Update screen is divided into two sections:

- **Software Version**
- **Network Update**

Software Version



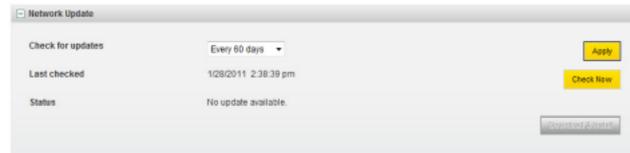
The screenshot shows a window titled "Software Version". It displays the current software version as 2.1.25. Below this is a table with the following data:

Version	Size	Released	Installation Status
2.1.25	15.01 MB	1/28/2011	2/9/2011 Successful

The Software Version section displays the following:

- **Current Software Version** – the current system software version.
- **History** – version, size, release date and installation status of the current system software version.

Network Update



The Network Update section displays the following:

- **Check for updates** – allows you to set the frequency to automatically check for updates.
- **Last checked** – the last day, month, year and time the network was checked for updates.
- **Status** – displays whether any network updates are currently available.
- **Apply** – click to apply your current check for updates selection.
- **Check Now** – click to check for the most recent network update.

Download & Install – click to install a network software update.

Note: The **Download & Install** button is grayed out unless a software update is available.

During a software or network update, you will see the following:

1. A green LED flashes on the device (it will begin to flash slowly towards the end of the download process).
2. The device will appear to power off and an amber LED will flash quickly.
3. A purple LED will flash slowly.
4. The device will restart and a solid amber LED, RSSI (with no signal) and battery e-ink will appear.
5. A purple LED will begin to flash and then turn solid.
6. No LED will be present.
7. A solid amber LED, antenna with no RSSI and battery appears.
8. A green LED with signal strength appears.

Power Management

Click **Power Management** in the System menu to disable device LEDs and to configure Automatic Shutdown.

The screenshot shows the Sprint MiFi administration web interface. At the top, there is a navigation bar with the Sprint logo and a yellow arrow icon. The navigation menu includes: MFi administration, Applications, WiFi, WLAN, Router, and System (highlighted). The System menu is open, showing the Power Management settings page. The page has a header with "Hello, Admin | Landing Page | Logout | Help" and a status bar showing "Sprint EVDO Rev. Connected". The main content area is titled "Power Management" and contains three sections: "Stealth Mode" with a checkbox for "Enable stealth mode"; "Standby Mode" with two dropdown menus for "When on battery power, switch to standby mode" (set to "After 10 minutes idle time") and "When on AC power, switch to standby mode" (set to "Never"); and "Automatic Shutdown" with a dropdown menu for "When on battery power, shutdown" (set to "After 30 minutes idle time"). At the bottom right of the settings area are "Apply" and "Cancel" buttons. The footer of the page features the "powered by MiFi" logo.

The Power Management Screen

The Power Management screen is divided into three sections:

- **Stealth Mode**
- **Standby Mode**
- **Automatic Shutdown**

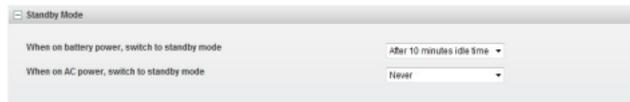
Stealth Mode



The Stealth Mode section allows you switch off the e-ink display and LED on your device.

1. From the Power Management screen, select the **Enable stealth mode** check box.
2. Click **Apply**.

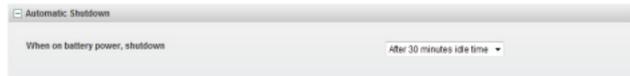
Standby Mode



The Standby Mode section displays the following:

- **When on battery power, switch to standby mode** – select the idle time interval from the menu.
- **When on AC power, switch to standby mode** – select the idle time interval from the menu.

Automatic Shutdown



The Automatic Shutdown section displays the following:

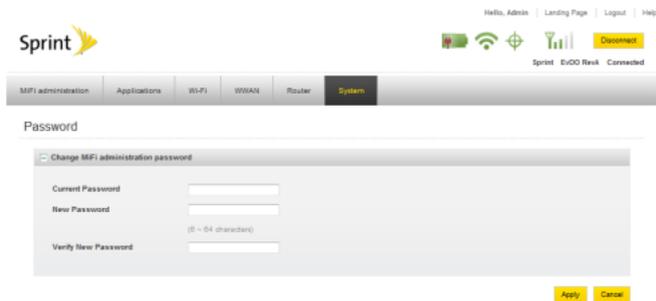
- **When on battery power, shutdown** – select the automatic shutdown time interval.

Click **Apply** to confirm the changes.

Important: Shutdown mode activates when there is no data traffic.

Password

Click **Password** in the System menu to change your administration password.



The screenshot shows the Sprint MiFi administration web interface. At the top, there is a navigation bar with the Sprint logo and a menu containing 'MiFi administration', 'Applications', 'Wi-Fi', 'WiMAX', 'Router', and 'System'. The 'System' menu item is highlighted. Below the navigation bar, the page title is 'Password'. The main content area is titled 'Change MiFi administration password' and contains three input fields: 'Current Password', 'New Password', and 'Verify New Password'. The 'New Password' field has a note '(8 - 64 characters)'. At the bottom of the form are 'Apply' and 'Cancel' buttons.

The Password Screen

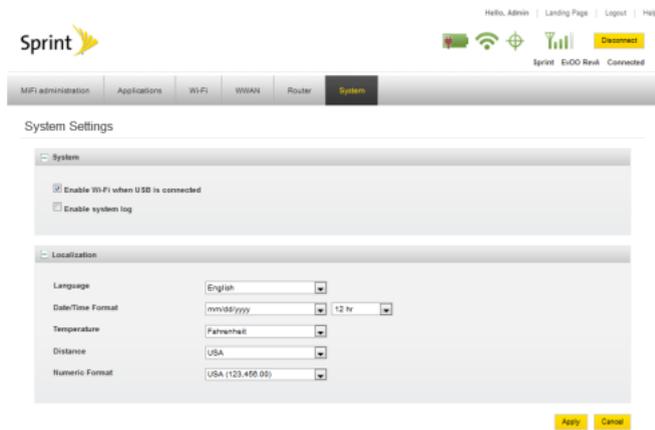
The Change MiFi administration password section allows you to change your administration password.

1. From the Password screen, type your password in the **Current Password** field.
2. Type the password you would like to replace your current password in the **New Password** field.

3. Retype your new password in the **Verify New Password** field.
4. Click **Apply** to confirm the password change.

Settings

Click **Settings** in the System menu to enable Wi-Fi when the device is connected to a USB port and to enable the System log.



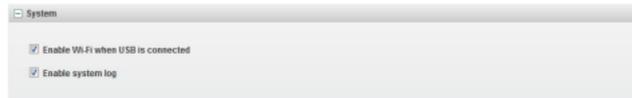
The screenshot shows the Sprint MiFi administration web interface. At the top, there is a navigation bar with the Sprint logo and a menu containing 'MiFi administration', 'Applications', 'Wi-Fi', 'WiMAX', 'Router', and 'System'. The 'System' menu item is highlighted. Below the navigation bar, the page title is 'System Settings'. The main content area is titled 'System Settings' and contains two sections: 'System' and 'Localization'. The 'System' section has two checkboxes: 'Enable Wi-Fi when USB is connected' (checked) and 'Enable system log' (unchecked). The 'Localization' section has several dropdown menus: 'Language' (English), 'Date/Time Format' (mm/dd/yyyy), 'Temperature' (Fahrenheit), 'Distance' (USA), and 'Numeric Format' (USA (123,456.00)). At the bottom of the form are 'Apply' and 'Cancel' buttons.

The System Settings Screen

The System Settings screen is divided into two sections:

- **System**
- **Localization**

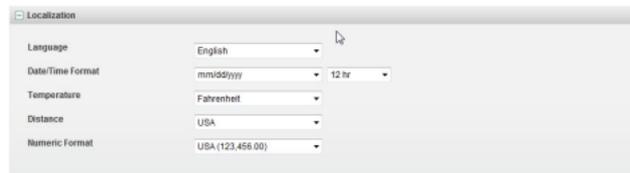
System



The System section displays the following:

- **Enable Wi-Fi when USB is connected** – select the check box to enable.
- **Enable system log** – select the check box to enable. (See “System Log” on page 45.)

Localization



The Localization section displays the following:

- **Language** – select preferred language.
- **Date/Time Format** – select preferred month, day, year format and time format.
- **Temperature** – select preferred temperature units.
- **Distance** – select preferred measurement units.
- **Numeric Format** – select preferred numeric format.

Click **Apply** to confirm the System and Localization settings.

Section 3
Troubleshooting



3A. Common Problems and Solutions

Overview

When properly installed, your device is a highly reliable product. If you are having problems, consult this list of common problems and their solutions.

Problems and Solutions

- **No service is available, or, I get a “Limited or No Connectivity” message.**
 - Reorient your device. If you are inside a building or near a structure that may be blocking the signal, change the position or location of the device. For example, try moving your device close to a window.
 - You are outside the Sprint coverage area, or there may be a problem with your account. Check with Sprint Customer Service.
- **The device has no power, or the LED indicator does not come on when the power button is pressed.**
 - Make sure the battery is properly seated in the device.
 - Make sure the battery is fully charged. Plug in the AC charger for at least four hours.
- **I forgot my password.**
 - Reset the device to factory defaults using the master reset button. Hold the button down for three seconds to reset your router hardware and for six seconds to reset both your router hardware and your device software. (See “Using the master reset button” on page 59.)
 - You can also connect your device to an electrical outlet using the AC adapter and go to the operating system (<http://mifi.mip> or <http://192.168.1.1>) to view your security code.
- **I cannot connect to my device.**
 - Make sure the Wi-Fi LED is green.
 - If the LED is amber, the device is outside the service area.

- If the LED is not on, check your battery. (See “LED States” on page 3.)
- Make sure your Windows Wi-Fi adapter/Mac AirPort is turned on. (Refer to your computer’s Help if you need assistance.)
- Open your wireless network connection list:
 1. Windows: Right-click icon and select **View Available Networks**.
 - or –
 - Mac: Pull down list from AirPort icon.
 2. Windows: Click **Connect**.
 - or –
 - Mac: Select the network name.
 3. When the your device is connected to the network, the Wi-Fi LED begins to blink.
- **My network does not appear in the wireless network list.**
 - Verify that your device’s LED is on and not indicating an error. (See “LED States” on page 3.)
 - Windows: Click **Refresh Network List** on the left side of the Wireless Network Connection screen. If that does not work you can try the following:
 1. Open **Network Connections**.
 2. Right-click **Wireless Network Connection** and select **Properties**.
 3. Click the **Wireless Networks** tab.
 4. Delete any unused wireless connections from the Preferred Networks list and click **OK**.
 5. Restart your computer.
 - Mac: Click the AirPort icon and select **Turn AirPort Off**. Then click it again and select **Turn AirPort On**.
- **I see the network name but cannot connect to my device.**
 - Check the user name, password, and Service Programming Code (SPC) or Master Subsidy Lock (MSL) in your connection profile. If any of these are incorrect, you will not be able to connect to the network.

- **How do I disconnect from the network?**

1. Open your device's landing page.
2. Log in as the administrator if you have not already done so.
3. Click **Disconnect**.

- **How can I find out how many users are connected to my device?**

- Open the landing page. The number of clients (users) currently connected to your device is in the Wi-Fi section at the bottom of the screen. You can also see the number of clients currently connected on the Status Panel display on the front of your Wi-Fi device.

- **Where can I find information about Internet connectivity and my Wi-Fi setup?**

- Open the landing page.

- **How do I check the model number and firmware versions of my device?**

- Log in to your device and choose **System > Status**.

- **How can I check the battery level of my device?**

- From the Web interface: Open the landing page. The battery status icon is displayed in the menu

bar. For more detailed information, log in and choose **Internet > Diagnostics**. Then click **Modem Status**.

- On the device: Check the battery icon on the status panel display on the front of the device.

- **How do I check the available space on the microSD card?**

- Open the landing page. Click **Settings > Applications > File Sharing** to open the **File Sharing** page and see the microSD Card status information.

- **How do I turn off my device?**

- Press and hold the power button for five seconds until the LED turns off. Your device must be disconnected from your computer or from AC power to be turned off. If your device is connected to the AC adapter and being charged, it will go into low-power mode.

- **What is the default administrative/login password?**

- admin

- **How do I access information on the Wi-Fi network and Wi-Fi clients?**

- Log in to your device and choose **Settings > Wi-Fi > Status** to open the Wi-Fi Status page and see the current Wi-Fi Network and Wi-Fi Clients information.

- **I am having trouble connecting to my office VPN.**

- Log in to your device and choose **Router > Settings**. Select the VPN Passthrough enable checkbox and click **Apply**.

Note: If your device switches from the 3G network to the 4G network during a VPN session, that session will be disconnected and you will need to reconnect to your VPN on the new network.

- **Using the master reset button**

- Your device comes with a master reset button that allows you to return it to its factory default state.
- The master reset button is accessed through an opening labeled “RESET” on the back cover of the device. You need a paperclip or similar object to press the button.

To reset the router hardware to the original factory settings:

1. Make sure your device is powered on.
2. Remove the back cover and locate the opening on the back of the device labeled “RESET.”



3. Insert a paper clip into the hole and hold the button down for **three seconds** until the LED goes out. The LED color will vary depending on the status of the device when you reset it.

To reset both the router hardware and the device software to the original factory settings:

1. Make sure your device is powered on.

2. Remove the back cover and locate the opening on the back of the device labeled “RESET.”
 3. Insert a paper clip into the hole and hold the button down for **six seconds** until the LED goes out. The LED color will vary depending on the status of the device when you reset it.
- Your list of wireless networks will now show the original default network when you first configured your device.
 - Connect to your device again and reconfigure it. You will need to use the original password (“admin”) to complete the setup and assign a new unique password.

Section 4
Reference



4A. Glossary

- 3G – Third Generation. 3G refers to the third generation of mobile telephony technology.
- 4G – Fourth Generation. 4G refers to the fourth generation of mobile telephony technology.
- 802.11 (b, g, n) – A set of WLAN communication standards in the 2.4, 3.6 and 5 GHz frequency bands.
- Access Point – A device that allows wireless communication devices to connect to a wireless network using a standard such as Wi-Fi.
- Broadband – High-capacity, high-speed transmission channel with a wider bandwidth than conventional modem lines. Broadband channels can carry video, voice, and data simultaneously.
- BSID – Biometrics Secured Identification Device.
- CDMA – Code Division Multiple Access. It is the underlying channel access method used by some wireless phone standards.
- CINR – Carrier to Interference and Noise Ratio. Measurement of true signal strength at a receiver.
- Computing Device – Any of a variety of computer-like devices (for example, a desktop computer, laptop, tablet PC, smartphone, or PDA).
- DHCP – Dynamic Host Configuration Protocol. Software found in servers and routers that automatically assigns temporary IP addresses to clients logging into an IP network.
- DHCP Server – A server or service with a server that assigns IP addresses.
- DNS – Domain Name System. A system for converting host names and domain names into IP addresses on the Internet or on local networks that use the TCP/IP protocol.
- ESN – Electronic Serial Number. A unique 32-bit number embedded in a wireless device that identifies the device.
- Firewall – A hardware or software boundary that protects a network or single computer from unwanted outside traffic.
- Firmware – A computer program embedded in an electronic device. Firmware usually contains operating code for the device.
- FTP – File Transfer Protocol. A network protocol for exchanging files over a TCP network.

- Gateway – A network point that acts as an entrance to another network that uses a different protocol.
- GPS – Global Positioning System. A radio-based navigation system that allows users to determine their location. The device uses satellite data to calculate its position. Commonly used in mapping and navigation systems.
- Hostname – The unique name by which a network-attached device is known on a network.
- Hotspot – A Wi-Fi (802.11) access point or the area covered by an access point. Used for connecting to the Internet.
- HSDPA – High Speed Downlink Packet Access. HSDPA is an enhanced version of WCDMA that supports broadband connections with download speeds up to 7.2 Mbps. This enhanced 3G technology enables the download of high-bandwidth multimedia files, high resolution graphics, and other complex files, and allows viewing email attachments at broadband-like speeds.
- HSPA – High Speed Packet Access. A family of 3G services that is available to GSM carriers. It is a major enhancement from WCDMA.
- HSPA+ – HSPA Evolution or HSPA Evolved. A 3G mobile telephony protocol with up-link speeds up to 11 Mbps and downlink speeds up to 42 Mbps.
- HTTP – Hypertext Transfer Protocol. An application-level protocol for accessing the World Wide Web over the Internet.
- IEEE – Institute of Electrical and Electronics Engineers. An international technical/professional society that promotes standardization in technical disciplines.
- IMAP – Internet Message Access Protocol. An Internet standard protocol for email retrieval.
- IP – Internet Protocol. The mechanism by which packets are routed between computers on a network.
- IP Type – The type of service provided over a network.
- IP Address – Internet Protocol address. The address of a device attached to an IP network (TCP/IP network).
- KB – Kilobytes per second. The rate of data flow.
- LAN – Local Area Network. A type of network that lets a group of computers, all in close proximity (such as inside an office building), communicate with one another. It does not use common carrier circuits though it can have gateways or bridges to other public or private networks.
- MAC Address – Media Access Control. A number that uniquely identifies each network hardware device. MAC addresses are 12-digit hexadecimal numbers.

- MEID — Mobile Equipment IDentifier. A globally unique number for a physical piece of mobile station equipment.
- Mbps — Megabits per second.
- microSD / micro SDHC — A small, removable flash memory card available in various storage sizes. Some products have a slot that allows them to utilize this external memory.
- MSID — Mobile Station IDentifier. A number for a mobile phone that identifies that phone to the network. These numbers are carrier specific.
- MSL — Master Subsidy Lock. A numeric code for accessing certain phone settings.
- NAI — Network Access Identifier. A standard way of identifying users who request access to a network.
- Network Operator — The vendor who provides your wireless access. Known by different names in different regions, some examples are: wireless provider, network operator, and service provider.
- Network Technology — The technology on which a particular network operator's system is built; such as GSM, HSPA, CDMA, EDGE, and EVDO.
- NMEA — National Marine Electronics Association. The NMEA has developed specifications defining the interface between certain pieces of electronic equipment, including GPS receiver communications.
- Port — A virtual data connection used by programs to exchange data. It is the endpoint in a logical connection. The port is specified by the port number.
- Port Forwarding — A process that allows remote devices to connect to a specific computer within a private LAN.
- Port Number — A 16-bit number used by the TCP and UDP protocols to direct traffic on a TCP/IP host. Certain port numbers are standard for common applications.
- PRL — Preferred Roaming List. A list that your wireless phone or device uses to determine which networks to connect with when you are outside the Sprint network.
- Protocol — A standard that enables connection, communication, and data transfer between computing endpoints.
- Router — A device that directs traffic from one network to another.
- RTP — Real-time Transport Protocol. A packet format for streaming multimedia over the Internet.
- RSSI — Received Signal Strength Indicator. Measurement of the power present in a received radio signal.

- SSID – Service Set Identifier. The name assigned to a Wi-Fi network.
- TCP – Transmission Control Protocol. A core protocol for transmitting and receiving information over the Internet.
- TCP/IP – Transmission Control Protocol/Internet Protocol. The set of communications protocols used for the Internet and other similar networks.
- UA – User Agent. Any device or software used to access a Web page. A user agent might be a Web browser, a smartphone, or a screen reader.
- UDP – User Datagram Protocol. A simple transport protocol used to transfer information on the Internet.
- UI – User Interface. The part of a software application or hardware device that a user sees and interacts with.
- UMTS – Universal Mobile Telecommunications Service. A third-generation broadband, packet-based transmission of text, digitized voice, video and multimedia at data rates up to 2 Mbps. UMTS offers a consistent set of services to mobile users all over the world. UMTS is based on the GSM standard. Until UMTS is fully implemented, users can use multi-mode devices that switch to currently available technology.
- USB – Universal Serial Bus. A connection type for computing device peripherals such as a printer, mobile modem, etc. USB connectors may be used for data transfer or charging.
- USB Port Types – The USB ports on computers and hubs have a rectangular Type A socket, and peripheral devices have a cable with a Type A plug. Peripherals that do not have an attached cable have a square Type B socket on the device and a separate cable with a Type A and Type B plug. Ports and connectors are available in different sizes (for example, standard, mini, and micro).
- VPN – Virtual Private Network. A secure private network that runs over the public Internet. Commonly used to connect to an office network from elsewhere.
- VPN Passthrough – A feature that allows a client to connect to a VPN server.
- WCDMA – Wideband Code-Division Multiple Access. A 3G mobile wireless technology that promises much higher data speeds to mobile and portable wireless devices. Another name for UMTS.
- Widget – A mini-application that displays specific information.
- Wi-Fi (R) – Any system that uses the 802.11 standard developed and released in 1997 by the IEEE.

- **Wi-Fi Connected Device** — A wireless device that connects to the Internet via Wi-Fi.
- **WLAN** — Wireless Local Area Network. A typically low-power network that transmits a wireless signal over a span of a few hundred feet and usually only to stationary devices.
- **WPA/WPA2** — Wi-Fi Protected Access. A security protocol for wireless 802.11 networks from the Wi-Fi Alliance.
- **WPS** - Wi-Fi Protected Setup. A standard created by the Wi-Fi Alliance to provide for the easy and secure establishment of a wireless home network.
- **WWAN** — Wireless Wide Area Network. Wireless network technologies deployed over a large geographical area to a large number of users (see WLAN). This service is usually provided through cellular providers. WWAN connectivity allows a user with a laptop and a WWAN device to surf the Internet, check email, or connect to a virtual private network (VPN) from anywhere within the coverage area of the network operator.

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