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FCC ID: PKRNVWMIFI4082

IC ID: _____

PN: 90026289_R1_Draft6_24Sep2010

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1

Getting Started

MiFi 4082 Device Overview
Install and Charge Battery
Initial Connection and Setup — Overview
Wi-Fi Setup

MiFi 4082 Device Overview

The Novatel Wireless MiFi Intelligent Mobile Hotspot device (model 4082) is your access point to the Internet anywhere you are. It acts as a Mobile Hotspot for up to five Wi-Fi-enabled devices, where you can surf the web, download files and music, share and swap photos with the built-in microSDHC™ reader, manage email and more at speeds of up to 10 Mbps download via the highest speed mobile 3G and 4G broadband networks.

You can connect any 802.11 b/g/n wireless device to your MiFi device, and the MiFi Landing Page (MLP) provides a quick and easy resource for information. You can establish a secure profile so that others cannot use your MiFi device unless you allow them. [See [Wi-Fi Setup](#) on page 16.] You can also establish temporary settings to allow up to five devices to connect with your MiFi device without having to give them your security settings.

System Requirements

- Windows® 2000, XP, Vista and 7; Mac OS® X (10.4.7+); Linux® (2.4, 2.6)*
- 100 MB Hard Drive Space
- 128 MB of RAM
- For Wi-Fi connection: Device supporting Wi-Fi 802.11 b/g/n and an Internet browser
- For USB connection: USB 2.0 port

Package Contents

The Novatel Wireless MiFi 4082 device package includes:

- MiFi Intelligent Mobile Hotspot device
- Rechargeable lithium ion battery
- A/C charger
- Storage pouch
- Quick Start Guide

Product User Guide (on device)

Your MiFi 4082 Intelligent Mobile Hotspot Device

Your MiFi 4082 device has the following parts:



4082 PHOTO
DEVICE FRONT
FPO



4082 PHOTO
DEVICE BACK
FPO

- ① **microUSB Port** — The AC charger, USB cable and optional car charger connect here.
- ② **microSDHC Slot** — Removable memory storage slot supports microSDHC cards (microSDHC card not included).
- ③ **Power / Connection LED** — Displays network connection and status. [See [LED States](#) on page 4.] for a detailed list of the colors and their defined states.
- ④ **eInk Display** — Displays network signal strength, battery charge, GPS, and number of users connected to the MiFi 4082 device.



4082 PHOTO
DEVICE BACK
BATT
FPO







4082 PHOTO
DEVICE BACK
SSID LABEL
FPO

- ⑤ **Battery Compartment** — The battery is placed here.
- ⑥ **Master Reset Button** — Resets device to factory default settings. {See [Using the Master Reset Button](#) on page 68.}
- ⑦ **SSID Label** — If your network is preconfigured, the SSID and Wi-Fi Key are located on the inside of the battery door.

LED States




The MiFi device LEDs provide valuable information about the state of the device and connection.

Power/Connection LED

| LED Color | Status | Description |
|--|---|--|
| No Light  | No power — | Device is powered off. |
| Amber  | Connected to power Flashing: Solid: | Battery charging Battery fully charged |
| Green  | 3G Flashing: Solid: | 3G service is available Connected to a network using 3G |
| Blue  | 4G Flashing: Solid: | 4G service is available Connected to a network using 4G |

eInk Display

The eInk 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 [Need correct icon] |
|  | 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 or not, and also indicates when the device is searching for a GPS fix. |
| Need icon | Connection status; displays a dot for each device connected to the MiFi 4082 device. |

Caring for Your Device

As with any electronic device, the MiFi 4082 device must be handled with care to ensure reliable operation. Novatel Wireless recommends the following handling guidelines:

- Do not apply adhesive labels to the MiFi 4082 device; they may cause the device to potentially overheat and they may alter the performance of the antenna system.
- The USB connector should plug easily into your computer's Type A USB port. Forcing the device into a port may damage the connector.
- Protect the MiFi 4082 device from liquids, dust, and excessive heat.
- Store the MiFi 4082 device in a safe place, when not in use.

Power Sources for Your MiFi Device

Your device will work from its battery or when plugged into a power source.

- **Battery** — The battery lasts up to four hours. Charge the battery by plugging in the AC adapter or optional car charger. While the battery is charging the Power/Connection LED flashes amber. When the battery is fully charged, the LED is solid amber.
- **Wall power or car charger** — Use the device by plugging it into either a wall socket or a vehicle using the optional car charger accessory. The MiFi battery charges while it is plugged in.
- **USB power from a computer** — Use the device as a USB modem while plugged into the USB port of a computer using the supplied USB cable. The battery charges while it is plugged in. Charging the battery through the USB port is slower than charging it with AC or vehicle power.

Install and Charge Battery

Before connecting the MiFi device to your computer for the first time, you must install and charge the battery.

The battery door cover on your MiFi device snaps open and closed. No tools are required to remove or install the battery door. Using any type of tools could result in damage to the device and to the battery. If excessive force appears necessary to move the door or remove the battery, please return the MiFi device to your carrier or where you purchased your MiFi device.

IMPORTANT The battery must be fully charged (for a minimum of four hours) before using your MiFi device the first time. After the initial use and set up, you may use the device with the battery, AC mains charger, car charger, or USB power.

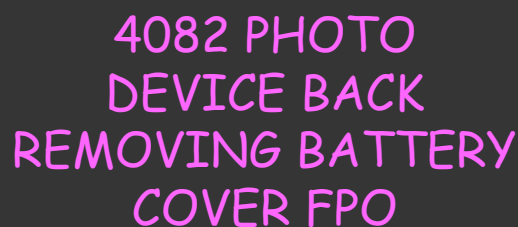
- 1 Hold your MiFi device firmly with one hand and the battery door side up.
- 2 Using the thumb of your free hand, push the release button on the end of the MiFi device.



4082 PHOTO
DEVICE BACK
HOLDING w/ONE
HAND/THUMB ON
BUTTON FPO

IMPORTANT When installing or replacing a battery, ensure that the MiFi device is not connected to your computer with the USB cable or a USB power supply. Before using the MiFi device, review the Battery Tips and Safety disposal instructions in [Proper Battery Use and Disposal](#) on page 75

- 3 While using normal thumb pressure on the release button with one hand, lift the battery door away from the MiFi device with your other hand.



4082 PHOTO
DEVICE BACK
REMOVING BATTERY
COVER FPO

- 4 Pick up the edge of the battery door to remove the door.

4082 PHOTO
DEVICE BACK
PICK UP EDGE
FPO

- 5 Slide the battery into the battery well.

4082 PHOTO
DEVICE BACK
HOLDING w/BOTH
HANDS
FPO

- 6 Connect the A/C charger to the MiFi device and **charge for a minimum of 4 hours** before use. The battery indicator icon in the Status Indicator Panel will flash while the device is charging and glow solid once charging is complete.

4082 PHOTO
DEVICE CONNECTED
TO A/C CHARGER
FPO

Remove the Battery

WARNING! Never use tools, knives, keys, pens or any type of object to force the door open or to remove the battery. Using any of these types of objects could result in puncturing the MiFi battery.

- 1 Hold your MiFi device firmly with one hand and the battery door side up.

A black rectangular box with pink text that reads: "4082 PHOTO DEVICE ON FLAT SURFACE W/BATTERY DOOR SIDE UP. FPO"

- 2 Using the thumb of your free hand, push the release button on the end of the MiFi device.

A black rectangular box with pink text that reads: "4082 PHOTO HOLDING W/ONE HAND & THUMB ON RELEASE BUTTON FPO"

- 3 While using normal thumb pressure on the release button with one hand, lift the battery door away from the MiFi device with your other hand.

A black rectangular box with pink text that reads: "4082 PHOTO DEVICE BACK W/BATTERY DOOR LIFTED FPO"

- 4 Pick up the edge of the battery door to remove the door.

4082 PHOTO
SHOWING BATTERY
DOOR REMOVED
FPO

- 5 Lift the battery up and remove from the battery well.

4082 PHOTO
SHOWING HOLD-
ING BATTERY OUT OF
WELL
FPO

Battery Tips

WARNING! Use only batteries and chargers with your device that have been approved by your service provider or by Novatel Wireless. Always use Novatel Wireless original batteries and chargers. The warranty does not cover damage caused by non-Novatel Wireless batteries and/or chargers.

- It normally takes at least four hours to fully charge the battery.
- Do not use sharp objects to access the battery well, this may damage the device and the battery.
- Do not use force to remove the battery or to access the battery well.
- If your MiFi device is connected to a computer using a USB cable, the battery charges.
- When one device is accessing mobile data while your MiFi device is using battery power, the device lasts up to four hours.
- The battery discharges more rapidly as additional devices access your MiFi device.
- Battery life depends on the network, signal strength, temperature, features, and accessories you use.
- Your device also works with an approved car charger.
- New batteries or batteries stored for a long time may take more time to charge.
- When charging your battery, keep it near room temperature.
- When storing your battery, keep it uncharged in a cool, dark, dry place.
- Never expose batteries to temperatures below -10°C (14°F) or above 45°C (113°F).
- Never leave the device in an unattended vehicle due to uncontrollable temperatures that may be outside the desired temperature for this device.
- Some batteries perform best after several full charge/discharge cycles.
- It is normal for batteries to gradually wear down and require longer charging times. If you notice a change in your battery life, it is probably time to purchase a new battery.

IMPORTANT! Whenever you remove or insert the battery, ensure your MiFi device is not connected to any device or power source. Never use tools, knives, keys, pens or any type of object to force the door open or to remove the battery. Using any of these types of objects could result in puncturing the MiFi battery.

WARNING! The failure to use approved batteries and chargers may increase the risk that your device will overheat, catch fire, or explode, resulting in serious bodily injury, death, or property damage.

Initial Connection and Setup — Overview

IMPORTANT Your MiFi device is pre-configured with your network operator settings. If your MiFi device is unable to pre-configure your settings, you need the Service Programming Code (SPC) or Master Subsidy Lock (MSL) name from your service provider plus any username, password, or other information they may have given you. If you do not have this information, contact your service provider before attempting to set up your MiFi device.

Your MiFi device is your access point to the Internet anywhere you are. It is also a temporary hotspot for up to five devices, and the MiFi Landing Page is your quick and easy resource for information.

You can connect any 802.11 b/g/n wireless device to your MiFi device. You can establish a secure profile so that others cannot use your MiFi device unless you allow them. You can also establish temporary settings to allow up to five devices to connect with your MiFi device without you having to give them your security settings. [See [Wi-Fi Configuration](#) on page 34.]

MiFi Landing Page

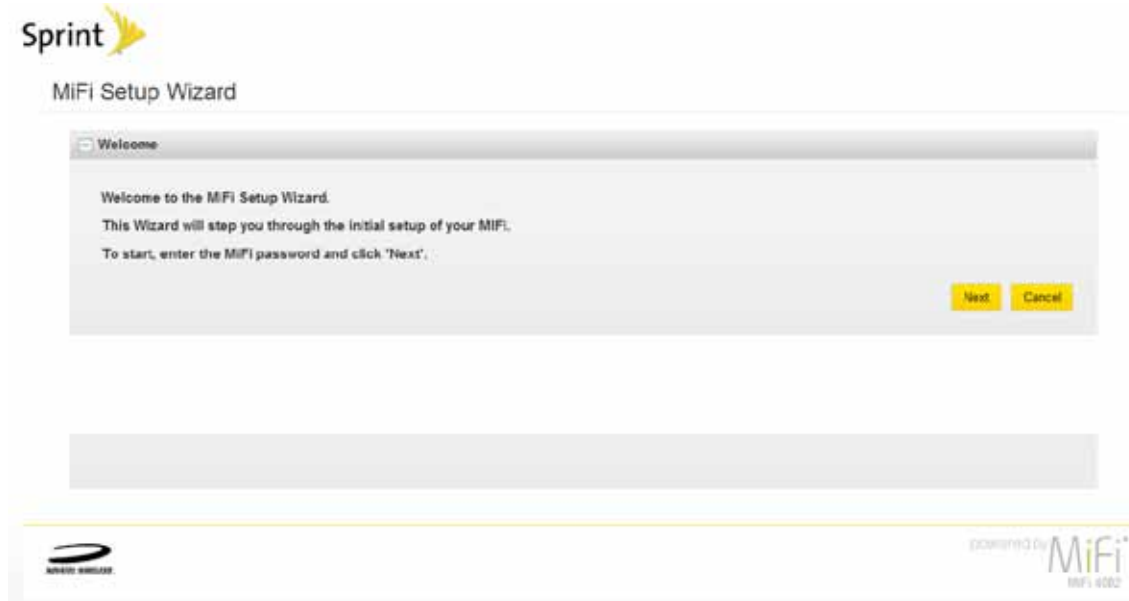
The MiFi Landing Page comes on your MiFi device. It's an on-device web page that contains customizable widgets with frequently-used information. Your widgets may vary; the examples in this guide describe generally how widgets work.

Continue through the following steps if you are setting up your MiFi device for the first time. For more detailed information about the MiFi Landing Page features, see [MiFi Landing Page](#) on page 26.

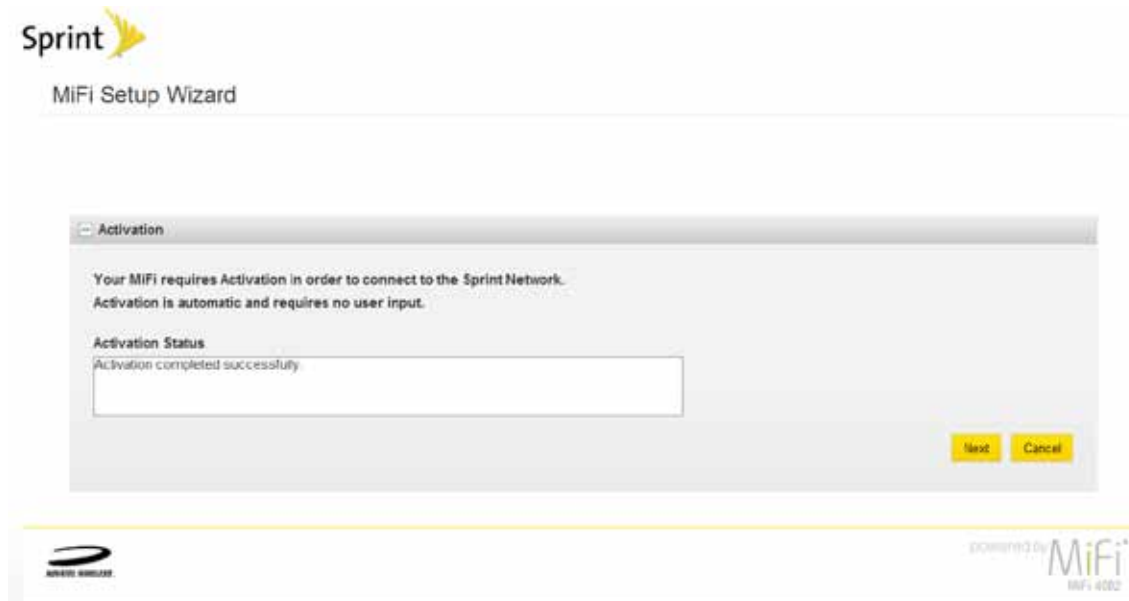
Login to the MiFi 4082 Device for the First Time

- 1 From your computer's Web browser, type <http://mifi.mlp> or <http://192.168.1.1> in the address bar and press the **Enter** or **Return** key.

Your MiFi device's Setup Wizard opens. This Wizard will take you step-by-step through your initial set up. You will not need to run the Setup Wizard after your initial set up, although you can access it anytime from the Home page.



- 2 Enter the MiFi password **admin** and click **Next**. The Setup Wizard Activation screen opens and displays your activation status.



- 3 Click **Next**. The Setup Wizard MiFi Password screen opens.

The screenshot shows the Sprint MiFi Setup Wizard interface. At the top left is the Sprint logo. Below it, the text "MiFi Setup Wizard" is displayed. The main content area is a window titled "MiFi Password". Inside this window, a message states: "Changing the default MiFi Administration password is recommended to improve security." Below this message is a checked checkbox labeled "Yes, change password". There are two input fields: "New Password" and "Verify New Password", both containing masked characters (dots). To the right of the "New Password" field, a yellow box displays "Password Strength: Normal". To the right of the "Verify New Password" field, a green box displays "Passwords Match". At the bottom right of the window are two buttons: "Next" and "Cancel". The footer of the page includes the Sprint logo on the left and "powered by MiFi MFi 4302" on the right.

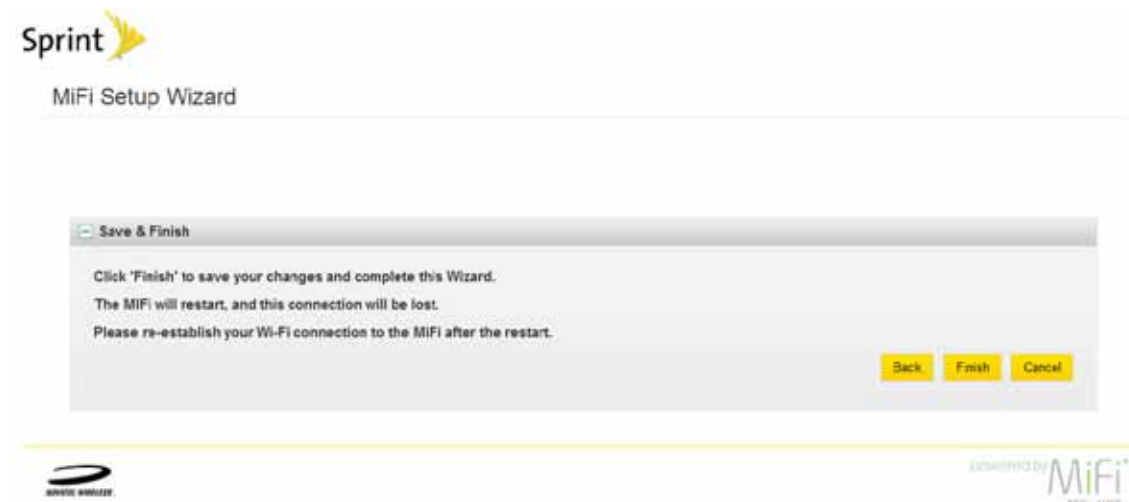
- 4 Enter and verify your new password, and then click **Next**. The GPS Privacy Consent Agreement screen opens.

The screenshot shows the Sprint MiFi Setup Wizard interface. At the top left is the Sprint logo. Below it, the text "MiFi Setup Wizard" is displayed. The main content area is a window titled "GPS Privacy Consent Agreement". Inside this window, there is a scrollable text area containing the following text: "Please review the following notice and agreement for activating Location-Based Services. In order to activate Location-Based Services, you MUST read this notice and give your consent to the following terms and conditions. Note that the terms 'Us' and 'We' in this document refer to your network service provider." Below this text, it says "YOUR CONSENT IS REQUIRED:". There are two radio button options: "I accept this agreement" (which is selected) and "I do not accept this agreement". At the bottom right of the window are two buttons: "Next" and "Cancel". The footer of the page includes the Sprint logo on the left and "powered by MiFi MFi 4302" on the right.

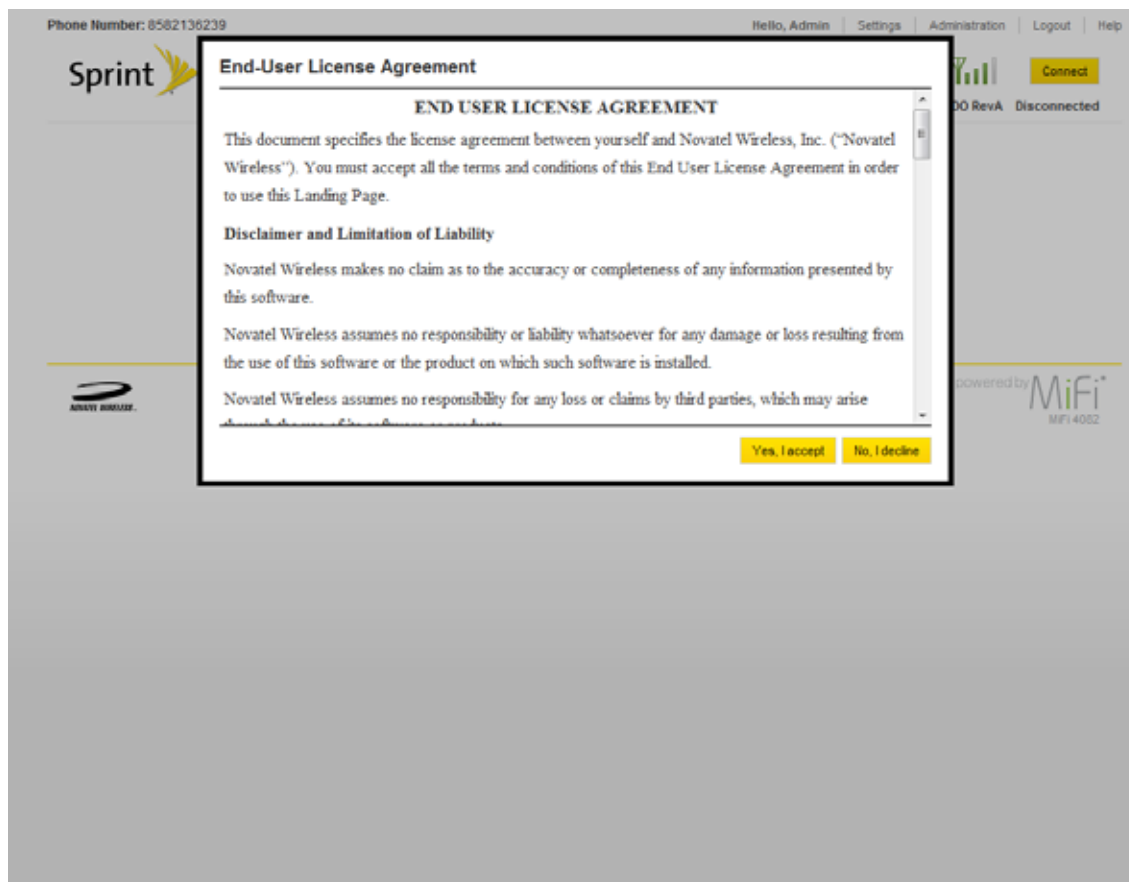
- 5 Select the **I accept this agreement** button, and then click **Next**.

The Setup Wizard Save & Finish screen opens.

- 6 Click **Back** to change previous setting selections, or click **Cancel** to exit the Setup Wizard without saving the changes. You can restart the Setup Wizard at any time from the Home page.



- 7 Click **Finish** to accept and save your setup. The End-User License Agreement window opens.








- 8 Click Yes, I accept.

The MiFi Landing Page opens.

Phone Number: 8582136239

Home, Admin | Settings | Administration | Logout | Help


Sprint 

    [Disconnect](#)

Sprint EvDO RevA Connected

Geosearch


32.895244, -117.201735



©2010 3:10 PM

Weather

San Diego, CA

 **75° F**
Sunny

| | |
|------------|----------|
| High | 75° F |
| Low | 63° F |
| Wind | 12 Mi NW |
| Humidity | 54% |
| Visibility | 10 Mi |

©2010 3:10 PM

Accuweather







3G Data Usage



Billing Period
mm/dd/yyyy 0 mm/dd/yyyy

Data Used
This Widget is for informational purposes only and is not used for billing purposes

Data Plan:

International Roaming

Devices      

Wi-Fi Setup

To properly set up your device, you need to do both of the following tasks:

- [Set Up a Wi-Fi Connection](#)
- [Set Up Wireless Security](#)

IMPORTANT Your MiFi device might be pre-configured with Wi-Fi encryption (WEP 128 bits) to prevent unauthorized access to your mobile broadband service. The unique SSID (network name) and WEP key are printed on the inside of the battery door. You need this information to continue.

Set Up a Wi-Fi Connection

In most cases, your MiFi device should be pre-configured for your network operator right out of the box and you can connect normally. [See [Connect to your MiFi device:](#) (page 16).]

If it is not pre-configured, setting up the Wi-Fi connection requires two steps:

- Connect to your MiFi device
- Configure your MiFi device for your service provider (Not required for most users.)

NOTE The battery should be fully charged before using MiFi the first time. To connect in Wi-Fi Mode, your MiFi device must be powered with a charged battery, with an AC mains, or car charger. When your MiFi device is connected to your computer with the USB cable, Wi-Fi is disabled.

Connect to your MiFi device:

- 1 Press the power button.

Your MiFi device powers on and starts up. When the power LED is flashing and the Wi-Fi LED is solid blue, the device is ready for you to connect another device (such as your computer) to it.

- 2 Use the normal Wi-Fi manager on your computer to locate the MiFi network name (SSID) and select it.

NOTE If your device was pre-configured, the network name was printed on the inside of the battery door. If your device was not pre-configured, select the network name that has MiFi_4082 in the name.

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

③ **Windows:** Click **Connect**.

Mac OS X: Click the MiFi network name.

If your unit was **not** pre-configured, the Wi-Fi LED flashes to show the connected status. Continue to [Configure your MiFi device for your service provider](#) on page 17.

If your unit was pre-configured, continue to the next step.

④ Enter the Network Key when requested.

The Wi-Fi LED flashes to show connected status.

Configure your MiFi device for your network operator:

IMPORTANT If your network was not pre-configured, follow these steps to configure your MiFi device for you network operator. Your network service provider should have given you instructions with your APN (and user name and password, if required). Be sure you have and follow those instructions.

① Log in and then click **Settings**. [See Login to the MiFi 4082 Device for the First Time on page 12.]

② Select **WiFi > Settings**.

The Wi-Fi Settings page opens. If your device does not come preconfigured with security, you will be prompted to change to the secure option.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint

Home Applications **Wi-Fi** WWAN Router System

Wi-Fi Settings

Wi-Fi Access Point

Profile: **Open**

Broadcast Network Name (SSID)

Open security is not recommended. It is recommended that you select and configure the secure option.

Open Profile

Network name (SSID): MFi4082 5063

802.11 Mode: 802.11b + 802.11g + 802.11n

Channel: Auto

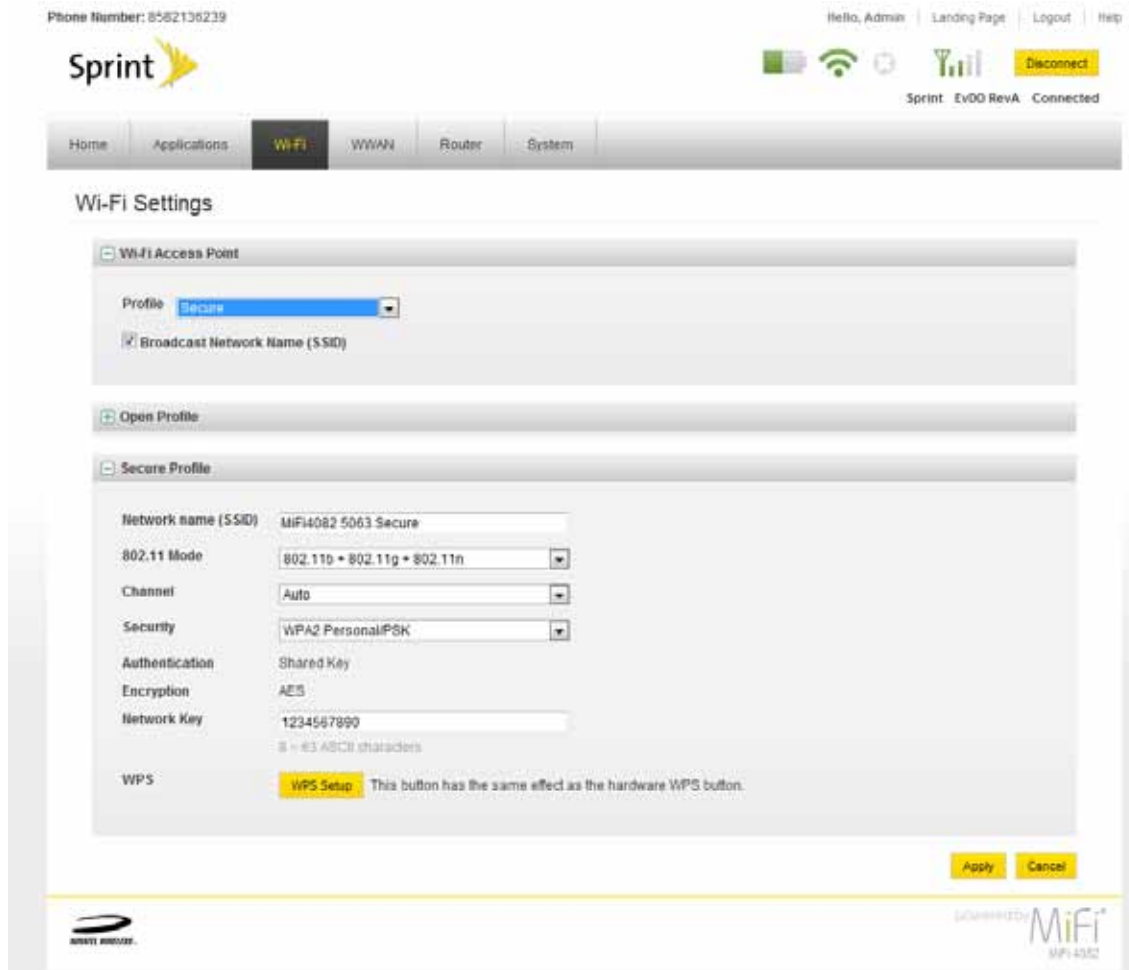
Security: None

Secure Profile

Apply Cancel

CONNECTED BY MiFi⁺ MFi 4082

- 3 Select **Secure** from the Wi-Fi Access Point Profile dropdown menu. The Secure Profile section opens.



- 4 Select the appropriate 802.11 Mode, Channel, and Security options from the Secure Profile dropdown menus.
- 5 Type the Network Key you want to use.

IMPORTANT Record your network key.

- 6 Click **Apply**.

IMPORTANT Your wireless connection will be disabled at this point. You must reconnect with the new network key you just established.

WARNING! It is highly recommended that you set up security for your MiFi device at this time. If you do not configure security for your wireless network, data on your network will be easily accessible to others.

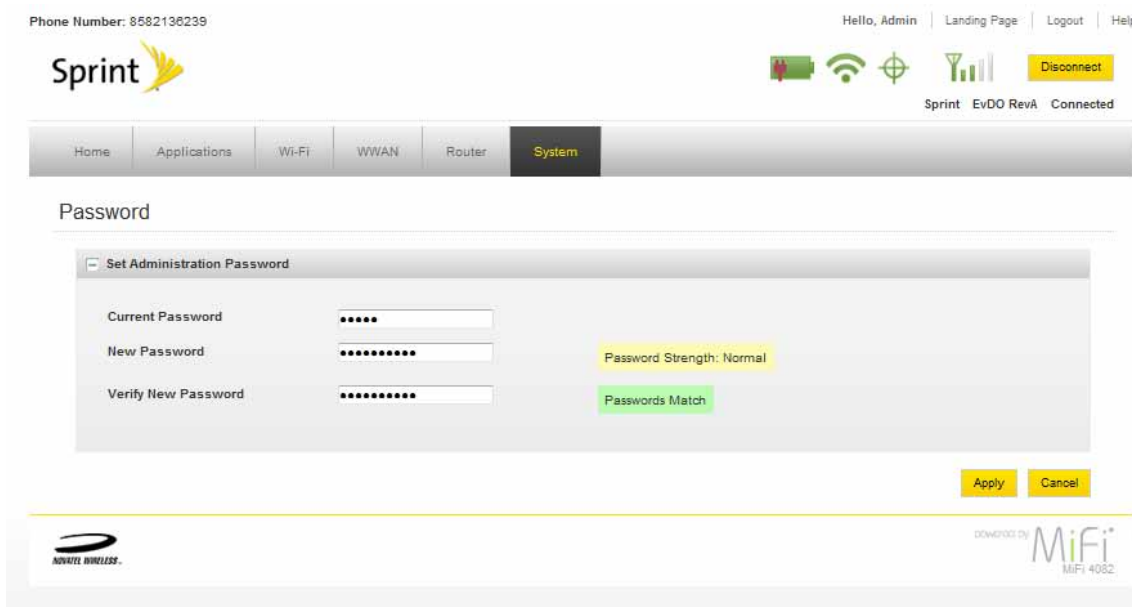
Set Up Wireless Security

Using security with your wireless network is very important. If your network was not pre-configured, Novatel Wireless recommends that you set up security immediately by following these steps:

- [Change the Administrative Password:](#)
- [Establish a Secure Profile:](#)

Change the Administrative Password:

- 1 Log in and then click **Settings**. [See [Login to the MiFi 4082 Device for the First Time](#) (page 12).]
- 2 Choose **System > Password** from the menu bar.



The screenshot shows the administrative interface for a MiFi 4082 device. At the top, it displays the phone number 8582136239 and the user is logged in as 'Admin'. The navigation menu includes Home, Applications, Wi-Fi, WWAN, Router, and System (which is currently selected). The 'Password' section is active, showing a form titled 'Set Administration Password'. The form has three input fields: 'Current Password', 'New Password', and 'Verify New Password', all masked with dots. To the right of the 'New Password' field, there is a status indicator 'Password Strength: Normal' and a green 'Passwords Match' message. At the bottom right of the form are 'Apply' and 'Cancel' buttons. The footer of the interface includes the Novatel Wireless logo and 'POWERED BY MiFi MIFI 4082'.

- 3 Type **admin** into the Current Password field.
- 4 Select a new administrative password and enter it into both New Password fields.
- 5 Click **Apply**.

This is the new administrative password that you use when you log in to the browser interface.

NOTE Be sure to record the new password. You will have to reset the device using the Master Reset button if you lose the administrative password. [See [Using the Master Reset Button](#) (page 63).]

Establish a Secure Profile:

You can use WEP (64- or 128-bit), WPA-PSK, WPA2-PSK, or WPA/WPA2 mixed mode security. If you did not establish a secure profile when you configured your device for your network operator, you can do so now. [See [Configure your MiFi device for your network operator](#) on page 17.]

You can customize your MiFi Landing Page by continuing to [Accessing MiFi Features](#) on page 26.

Using MiFi and Sharing Files

Using microSDHC Cards with MiFi — File Sharing

Using microSDHC Cards with MiFi — File Sharing

Your MiFi device comes with a microSDHC card slot that allows you to move files with you without having to carry an additional flash drive. You can use microSDHC cards with up to 16GB capacity.

Insert the microSDHC Card

- ▶ Insert the microSDHC card into the microSDHC slot.

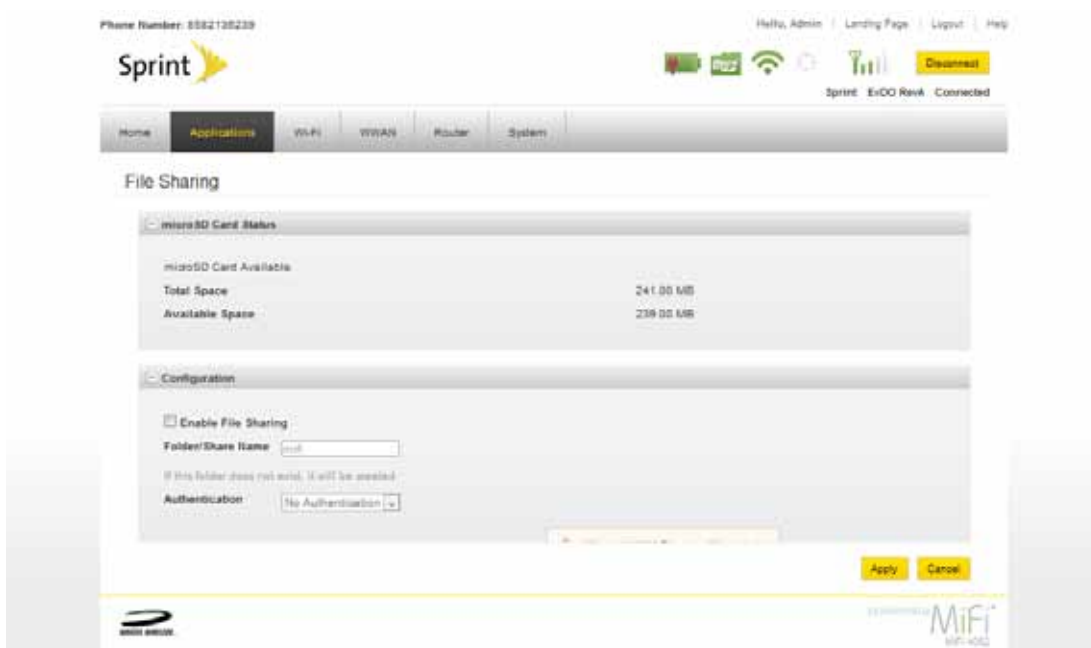


- NOTE**
- Be careful not to touch the contacts.
 - Do not force the card into the slot. Check the orientation if you have difficulties.

Enable File Sharing on Your MiFi Device

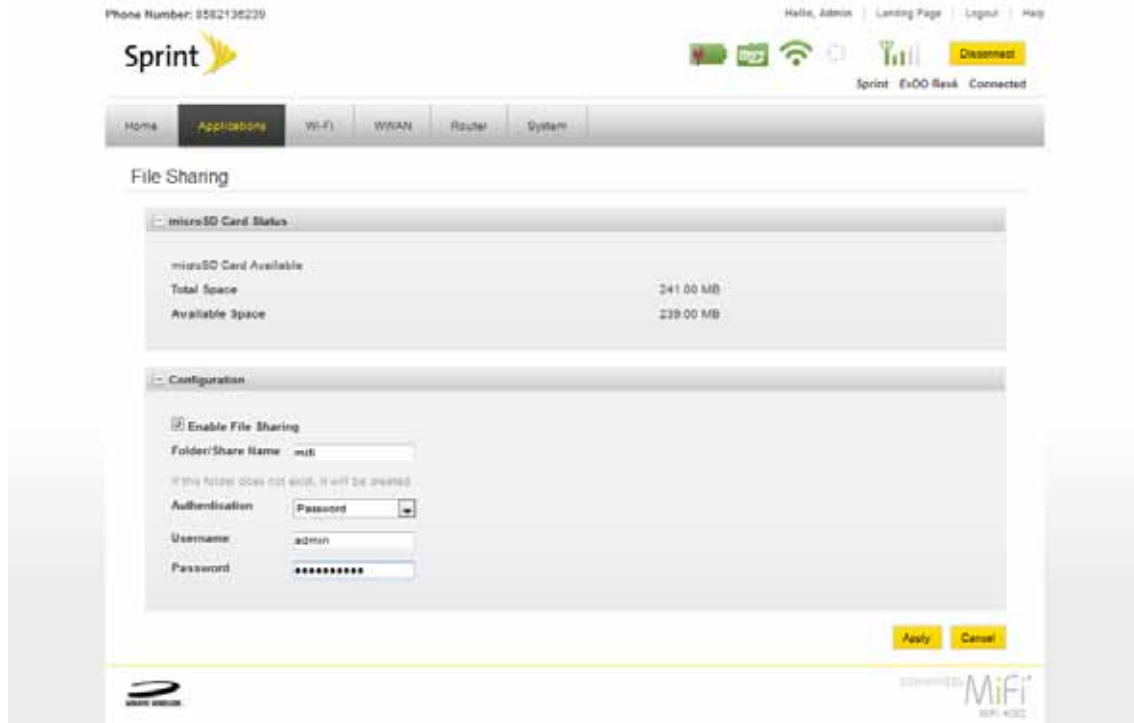
If you establish file sharing on your MiFi device, others connected to your MiFi device can access the files on your microSDHC card.

- 1 Log in and then click **Settings**. [See [Log In to the Home Page](#) (page <?>).]
- 2 Insert a microSDHC card.
- 3 Choose **Applications > File Sharing** from the menu bar. The File Sharing page opens.



From here you can see how much free space you have available on the microSDHC card and enable file sharing

- 4 Check **Enable File Sharing** in the Configuration section.
- 5 Select your security setting, from the Authentication dropdown menu.
- 6 Type your Username and Password in the appropriate fields and then click **Apply**.



Access Shared Files on Your MiFi Device

Once you enable file sharing (see “Enable File Sharing on Your MiFi Device” on page 21), you can access the shared files on your computer.

Windows

- 1 Connect to your MiFi device using WiFi
- 2 Open **My Network Places**. This might vary depending on your version of Windows.
- 3 In the Address bar, type the MiFi IP address and the MiFi Share name (for example: `\\192.168.1.1\mifi`, if your share name is the default name).

You can set the MiFi Share name and authentication (username and password) on the File Sharing screen. [See [Enable File Sharing on Your MiFi Device](#) (page 21).]

- 4 If authentication is enabled, you will be prompted for a username and password. Use the username and password set on the File Sharing screen.

You can now browse the folders and files on the microSD card inserted in your MiFi device.

Mac OS X (v10.4 and later)

- 1 Connect to your MiFi device using WiFi.
- 2 Select **Go > Connect to Server**.
- 3 In the Address field, type `smb://` and the MiFi address (for example: `smb://192.168.1.1/mifi`, if your share name is the default name).

You can set the MiFi Share name and authentication (username and password) on the File Sharing screen. [See [Enable File Sharing on Your MiFi Device](#) (page 21).]

- 4 Click **Connect**.
- 5 **Mac OS X v10.4 only:** An authentication window opens. If you set authentication (password) on the File Sharing screen, type the username and password in the window. If you did not set authentication, click **OK** to access the MiFi Share.

NOTE If no password is set, but you are prompted for a name, use the name **guest**.

Mac OS X v10.5 and later: If you set authentication (username and password) on the File Sharing screen, type the username and password when prompted. If you did not set authentication, a Finder window opens.

You can now browse the folders and files on the microSD card inserted in your MiFi device.

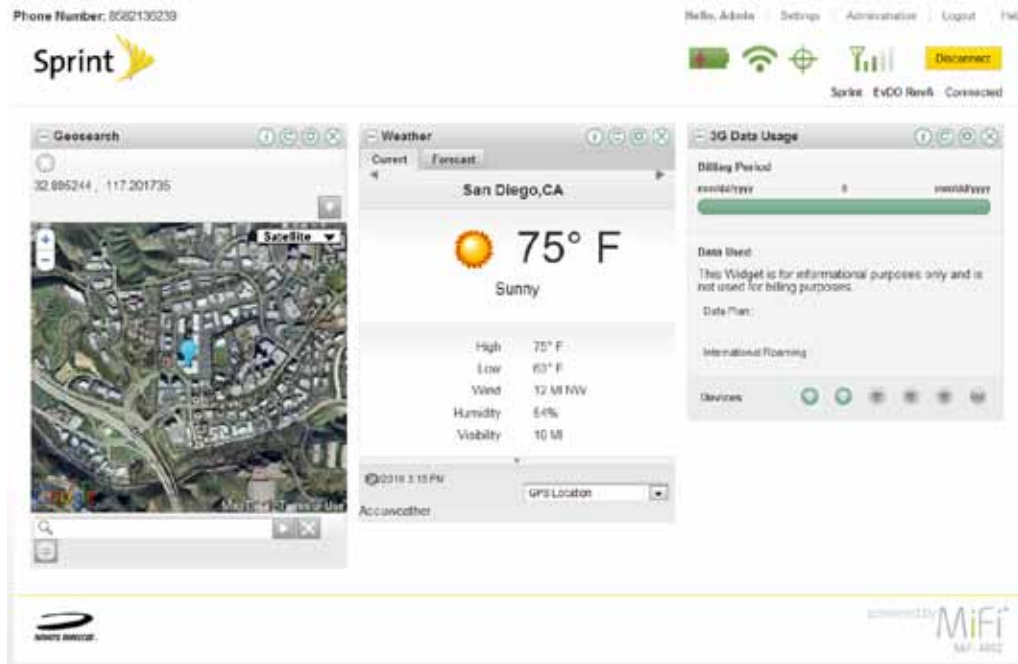
Accessing MiFi Features

- MiFi Landing Page
- MiFi Settings
- Wi-Fi Configuration
- Internet Configuration
- Router Configuration
- System Configuration

MiFi Landing Page

Open the MiFi Landing Page Interface

[See [Login to the MiFi 4082 Device for the First Time](#) page 12]

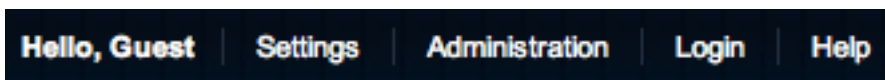


The Navigation Bar

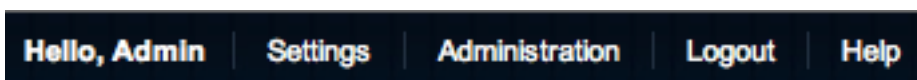
At the top of the MiFi Landing Page in the browser interface is the navigation bar. These buttons are dynamic according to the page you visit.

The following images are some examples of the navigation bar:

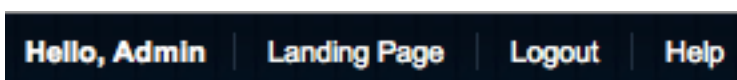
- The navigation prior to logging in.



- The navigation after you log in, but before you go to the Settings section of the site.









- The navigation in the Settings section of the site.



The Status Icons

Below the Navigation Bar, at the top right corner of the window, status icons tell you about the battery life, mobile broadband network strength, Wi-Fi strength, roaming status, GPS status, and connection status.

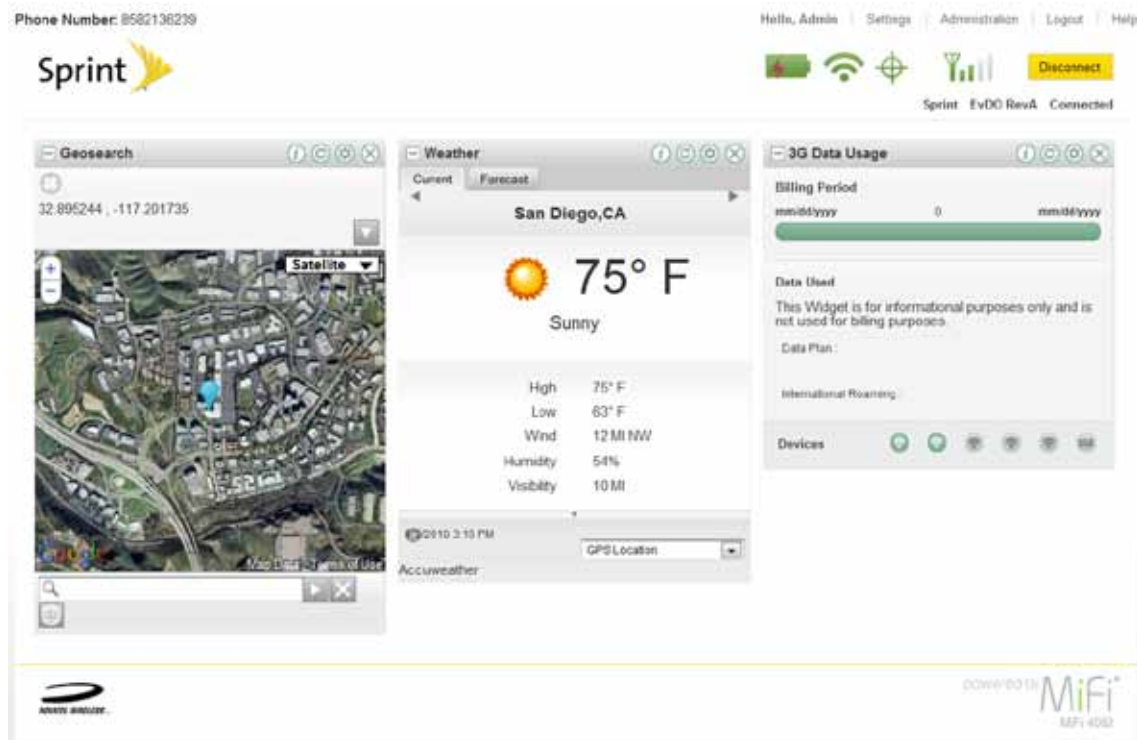
| | |
|---|---|
|  | Battery life; this icon indicates the amount of battery life remaining, and also indicates when the device is connected to power. |
|  | Mobile Broadband network signal strength |
|  | WiFi signal strength |
|  | Network roaming status; this icon indicates whether the device is on its own network or roaming on another network. |
|  | GPS status; this icon indicates whether the device has a GPS fix or not, and also indicates when the device is searching for a GPS fix. |
|  | Connection status; click this button to connect to or disconnect from the Mobile Broadband network. |

Each icon varies according to the current status and may vary depending on your network operator and conditions.

The Landing Page

The Landing page is the page you see when you first connect to your MiFi device with your browser. It is the main point of entry for all your work with your MiFi device. This is the page where you first find the Connect button with which you can connect to the Mobile Broadband network. You can also set your MiFi device to auto-connect to the network.

The Landing page is where guests can see and interact with widgets. They can drag and drop widgets around the screen and arrange them as they like; each guest's browser stores the widget locations. Generally the widget settings are limited or not available to guests. Guests also cannot initiate a connection to the network. You can change this setting. [See [Internet Settings](#) (page 40).]



The Administration Page

The Administration page is a basic Internet Connection and Wi-Fi status page that guest users can access.

The screenshot displays the Administration Page interface. At the top left, it shows the phone number 8582136239 and the Sprint logo. On the top right, there are navigation links for 'Hello, Guest', 'Landing Page', 'Login', and 'Help', along with status icons for 'Sprint', 'EvDO RevA', and 'Disconnected'. The main content area is titled 'Home' and contains two expandable sections: 'Internet Connection' and 'Wi-Fi'. The 'Internet Connection' section shows 'Received' and 'Transmitted' data as 0.00 KB, and 'Connected Time' as 00:00:00. The 'Wi-Fi' section shows a 'Profile' of 'Secure', 'Network name (SSID)' of 'MiFi4062 5063 Secure', 'Security' of 'WPA2 Personal/PSK', and 'Clients' as 1 / 5. The IP Address is 192.168.1.1 and the Subnet Mask is 255.255.255.0. At the bottom, there is a logo for 'powered by MiFi' and 'MFI-4062'.

Widgets

Widgets are little programs that give you information really quickly. For example, your MiFi device can give you the weather where you are right now or anywhere in the world. Another example is a widget that can help you track your data usage and visibly show you how much data you have left this period.

Your network operator can provide more information about how to get additional widgets.

While some widgets work with the device itself and store information on the device, most widgets work best when you have an active Internet connection.

MiFi Settings

In addition to the Landing page, the MiFi Settings are included in this page. You can configure and customize your MiFi device as you like.

MiFi Settings Menu Bar






The MiFi Settings section contains a menu bar to help you configure your MiFi device.

Except for the Home menu item, each menu bar item has a submenu with several additional items available.

The Home menu item returns you to the Administration screen.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint      [Disconnect](#)

Sprint EvDO RevA Connected

Home Applications Wi-Fi WWAN Router System

Home


Internet Connection

| | | | |
|----------------|----------|-------------|-----------------|
| Received | 98.00 KB | IP Address | 173.127.38.48 |
| Transmitted | 82.00 KB | Subnet Mask | 255.255.255.255 |
| Connected Time | 00:06:09 | | |

Wi-Fi

| | | | |
|---------------------|---------------|-------------|---------------|
| Profile | Open | IP Address | 192.168.1.1 |
| Network name (SSID) | MiFi4082 5063 | Subnet Mask | 255.255.255.0 |
| Security | None | | |
| Clients | 1 / 5 | | |

[Setup Wizard](#)

 Download by **MiFi**
MiFi 4082

Applications Menu

The Applications Menu includes Auto-VPN, File Sharing, and Landing Page Settings.

The screenshot shows the top navigation bar with the Sprint logo, phone number 8582136239, and user information 'Hello, Admin'. The 'Applications' menu is highlighted, showing sub-options: Auto-VPN, File Sharing, and Landing Page Settings. Below the menu, the 'Internet Connection' section displays network statistics:

| Internet Connection | | | |
|---------------------|-----------|-------------|-----------------|
| Received | 104.40 KB | IP Address | 173.127.38.48 |
| Transmitted | 68.80 KB | Subnet Mask | 255.255.255.255 |
| Connected Time | 00:08:49 | | |

Auto-VPN

Auto-VPN transforms your mobile broadband into a connection to a virtual private network. Contact your network operator for more information.

The screenshot shows the 'Auto VPN' configuration page. It includes a 'VPN Status' section with the following details:






| VPN Status | | |
|------------------------|-----------------------|--------------|
| Current VPN Policy | none | |
| VPN Type | VPN Connection Status | Disconnected |
| VPN IP Address | Connected Time | 00:00:00 |
| VPN Gateway IP Address | Data Received | 0 bytes |
| VPN DNS IP Address | Data Transmitted | 0 bytes |

Below the status section is the 'VPN Policies' section, which features a dropdown menu for 'VPN Policy' (currently set to 'VPN 1'), 'Edit Policy', and 'Clear Policy' buttons. There is also an unchecked checkbox for 'Auto-connect with this VPN Policy'. 'Apply' and 'Cancel' buttons are located at the bottom right of the configuration area.

File Sharing

See [Using microSDHC Cards with MiFi page 23](#) for more information about File Sharing.

Phone Number: 8582138239 Hello, Admin | [Landing Page](#) | [Logout](#) | [Help](#)

     [Disconnect](#)

Sprint EvDO RevA Connected

Home **Applications** Wi-Fi WWAN Router System

File Sharing

microSD Card Status

microSD Card Not Available

| | |
|-----------------|---------|
| Total Space | 0.00 KB |
| Available Space | 0.00 KB |

Configuration



Enable File Sharing

Folder/Share Name

If this folder does not exist, it will be created.

Authentication

[Apply](#) [Cancel](#)

 POWERED BY  MIFI 4082

Landing Page Settings

You can configure how often your widgets connect to the network and which widgets appear on the Landing page.

The screenshot shows the Sprint MiFi 4082 web interface. At the top, there is a header with the Sprint logo, a phone number (8582136239), and navigation links for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. Below the header is a navigation bar with tabs for 'Home', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The 'Applications' tab is selected. The main content area is titled 'Landing Page Settings' and contains two sections: 'Landing Page Configuration' and 'Widget Configuration'. In the 'Landing Page Configuration' section, there are two dropdown menus: 'Widget Data Pre-fetch' set to 'Home network only' and 'Default Widget data update interval' set to '5 minutes'. In the 'Widget Configuration' section, there is a 'Widget Columns' dropdown set to '3'. Below this is a table with columns for 'Widget', 'Enabled', 'Available - Admin', and 'Available - Guest'. The table lists 'Geosearch' and 'Weather' widgets, both of which are enabled and available to both Admin and Guest users. At the bottom right of the configuration area are 'Apply' and 'Cancel' buttons. The footer of the page includes the Intel Wireless logo and the text 'POWERED BY MiFi MIFI 4082'.

Landing Page Configuration

- Widget Data Prefetch — Select Disabled, Home Network Only, or Always
- Default Widget Data Update Interval — Select intervals of 2 to 30 minutes

Widget Configuration

- Widget columns — Select 2 to 4 columns
- Click **Apply** to save your changes.

Wi-Fi Configuration

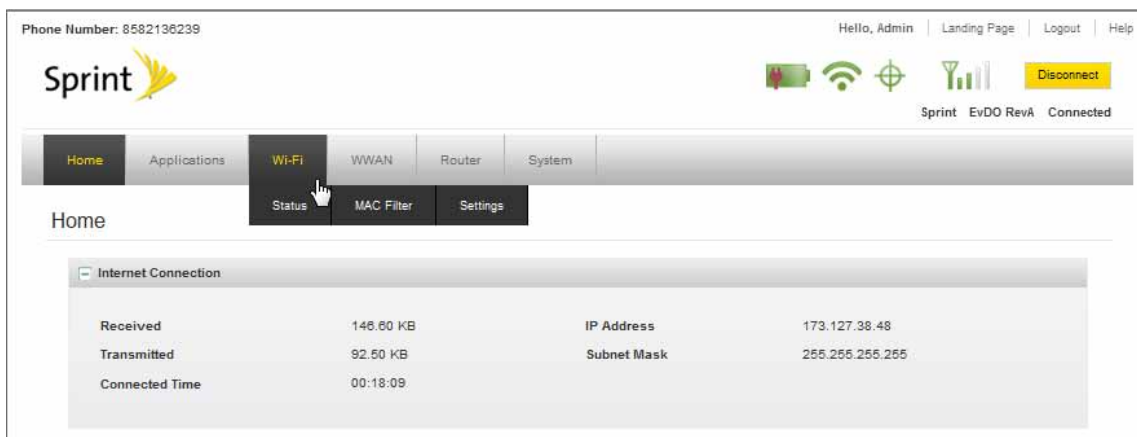
The Wi-Fi menu allows you to work with profiles, set MAC filters, view the Wi-Fi log, and view status information for the Wi-Fi network.

This section contains the following information:

- [Wi-Fi Menu Options](#)
- [Wi-Fi Status](#)
- [MAC Filter](#)
- [Wi-Fi Settings](#)

Wi-Fi Menu Options

- 1 Choose **Wi-Fi** from the menu bar at the top of the Home page.



- 2 Select one of the following:
 - Wi-Fi Status — to view profile information, see who is connected to the device, and view the Wi-Fi Log. You can also retrieve your Network Key from this page.
 - MAC Filter — to allow only certain devices to connect to your MiFi device.
 - Wi-Fi Settings — to enable or disable broadcasting the network name or enable or disable the Wi-Fi log.

Wi-Fi Status

The Wi-Fi Status page provides you with information about your wireless network.

Opening the Page

- 1 Choose **Wi-Fi > Status** from the menu bar. The Wi-Fi Status page opens.

The screenshot shows the 'Wi-Fi Status' page. At the top, there is a header with 'Phone Number: 8582136239', 'Hello, Admin', and links for 'Landing Page', 'Logout', and 'Help'. The Sprint logo is on the left, and status icons for cellular, Wi-Fi, and location are on the right, along with a 'Disconnect' button. Below the header is a navigation bar with 'Home', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The main content area is titled 'Wi-Fi Status' and contains two sections: 'Wi-Fi Network' and 'Wi-Fi Clients'. The 'Wi-Fi Network' section displays the following information:

| | | | |
|---------------------|---------------|-------------|-------------------|
| Current Profile | Open | Channel | 2 |
| Network name (SSID) | MiFi4082 5063 | 802.11 Mode | 802.11b + 802.11g |
| Clients Allowed | 5 | Security | None |
| Clients Connected | 1 | Encryption | None |
| | | Network Key | Display Key |

The 'Wi-Fi Clients' section contains a table with the following data:

| IP Address | IP Type | Hostname | MAC Address | Date/Time |
|--------------|---------|------------|-------------------|-------------------------------|
| 192.168.1.34 | DHCP | Mareena-PC | 78:e4:00:4a:42:56 | 08/19/17:40:20/2010 undefined |

A 'Refresh' button is located at the bottom right of the 'Wi-Fi Clients' section. The footer includes the Novatel Wireless logo and 'powered by MiFi MFi 4082'.

Wi-Fi Status Sections

Wi-Fi Network

The Wi-Fi Network section of the Wi-Fi Status page provides the following information:

- Profile that is currently in use.
- Name of the network (SSID) that you are connected to.
- Maximum number of clients that are allowed to connect to the device.
- Number of clients that are currently connected to the device.
- Channel that is being used.
- Current wireless mode.
- Security type and encryption for the current profile.
- Network Key link. (Click to retrieve the network key.)

Wi-Fi Clients

The Wi-Fi Clients section of the Wi-Fi Status page shows the clients that are currently connected to your MiFi device. This is another way you can find the MAC address for a particular device when you are setting up MAC filtering.

- ▶ Click **Refresh** to update the information about the clients that are currently connected to your MiFi device.

MAC Filter

MAC Filtering allows you to restrict access to your MiFi device to only those devices with a specific MAC address. The MAC address is a unique code specific to a particular piece of hardware such as a network adapter. [See [Finding the MAC Address](#) (page 36).]

Opening the Page

- ▶ Choose **Wi-Fi > MAC Filter** from the menu bar. The MAC Filter page opens

The screenshot displays the web interface for a MiFi 4082 device. At the top, it shows the phone number 8582138239 and navigation links for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. The Sprint logo is on the left, and status icons for cellular signal, Wi-Fi, and location are on the right, along with a 'Disconnect' button. A menu bar below the header has 'Home', 'Applications', 'Wi-Fi' (highlighted), 'WWAN', 'Router', and 'System'. The main content area is titled 'MAC Filter' and contains two sections: 'Enable MAC Filter' with an unchecked checkbox and a note that only trusted clients can connect if enabled; and 'Trusted Client List' with an empty table, a 'Delete' button, and an 'Add' button next to a text input field for the MAC address (example: 00-19-D2-4D-B5-CE). 'Apply' and 'Cancel' buttons are at the bottom right. The footer includes the Intel Wireless logo and 'Powered by MiFi MIFI 4082'.

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 6 pairs of numbers and letters. The pairs of numbers may be separated by “-” or “:” (for example, 00-21-9B-1C-64-34 or 00:21:9B:1C:64:34).

You can view the MAC address of any device currently connected to your MiFi device in the Wi-Fi Clients section of the Wi-Fi Status page. [See [Wi-Fi Clients](#) (page 35).]

- On a Windows PC, you can find the MAC address by running **ipconfig /all** from a command prompt window (cmd). The MAC address is referred to as the Physical Address.
- On a Mac, open **System Preferences > Network**. In the Show list, click **AirPort**, then click **Advanced**. The MAC address is the Airport ID.

IMPORTANT Make sure you get the MAC address for the wireless network adapter and not the Ethernet adapter.

Using MAC Filter

The MAC Filter page allows you to enable or disable MAC filtering and to add or delete MAC addresses from the trusted client list.

IMPORTANT Do not enable MAC filtering unless you have added your own MAC address to the trusted client list. Otherwise you will be unable to access your MiFi device until you use the Master Reset button. [See [Using the Master Reset Button](#) (page 63).]

- 1 Choose **Wi-Fi > MAC Filter** from the menu bar.
- 2 Type the MAC address for your computer into the Add Trusted Client MAC Address box and click **Add**.
Tip! You can copy and paste your computer’s MAC address from the Wi-Fi Clients section of the Wi-Fi Status page. [See [Wi-Fi Clients](#) (page 35).]
- 3 If desired, type the MAC address for other computers into the Add Trusted Client MAC Address box and click **Add**.
- 4 Select the Enable MAC Filter check box and click **Apply**.

Wi-Fi Settings

The Wi-Fi Settings page allows you to enable or disable broadcasting the network name and the Wi-Fi log.

Opening the Page

- 1 Choose **Wi-Fi > Wi-Fi Settings** from the menu bar. The Wi-Fi Settings page opens.

The screenshot shows the Wi-Fi Settings page in a mobile device management interface. At the top, there is a header with the phone number 8582136239, the Sprint logo, and user information: Hello, Admin | Landing Page | Logout | Help. Below the header is a navigation bar with tabs for Home, Applications, Wi-Fi (selected), WWAN, Router, and System. The main content area is titled "Wi-Fi Settings" and contains three sections: "Wi-Fi Access Point", "Open Profile", and "Secure Profile".

Wi-Fi Access Point

- Profile: Open
- Broadcast Network Name (SSID)

Open Profile

- Network name (SSID): MiFi4082 5083
- 802.11 Mode: 802.11b + 802.11g + 802.11n
- Channel: Auto
- Security: None

Secure Profile

- Network name (SSID): MiFi4082 5083 Secure
- 802.11 Mode: 802.11b + 802.11g + 802.11n
- Channel: Auto
- Security: WEP 64-bit
- Authentication
- Encryption
- Network Key: 1234567890
- WPS: **WPS Setup** This button has the same effect as the hardware WPS button.

At the bottom right of the settings area are "Apply" and "Cancel" buttons. The footer contains the Sprint logo and the text "powered by MiFi MIFi 4082".

Wi-Fi Settings Page

Broadcast Network Name (also known as SSID broadcast) causes the device to send the Network Name (SSID) out where it can be picked up by nearby computers. This is what you see when you “View Available Wireless Networks” from your computer.

Disabling Network Name (SSID) broadcasting provides additional security, but you will have to re-enable it if you lose your automatic connection.

- ▶ Select or deselect the checkbox to enable or disable Broadcast Network Name and click **Apply**.

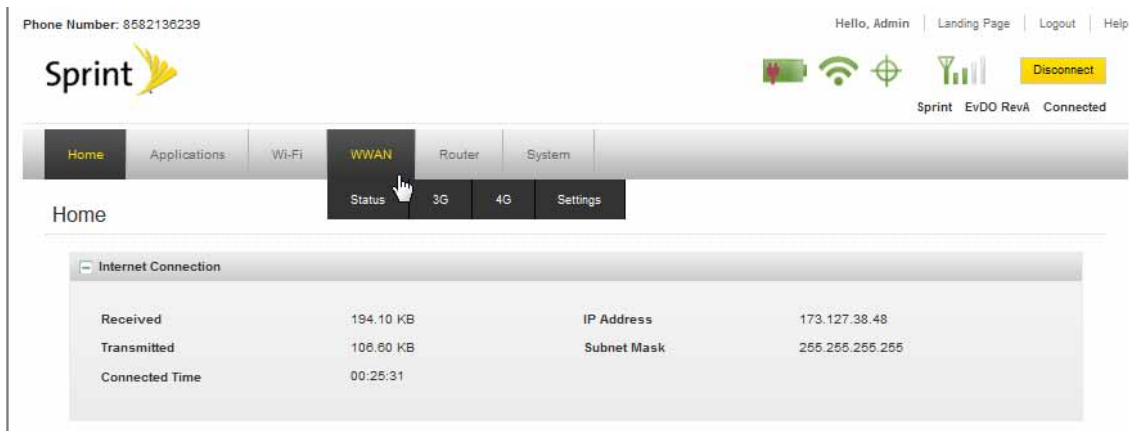
WWAN

The WWAN menu provides status information for your connection to the Internet and the 3G and 4G networks, and allows you to configure your connection and network options. The section contains the following information:

- [WWAN Menu](#)
 - [Status](#)
 - [3G](#)
 - [4G](#)
 - [Settings](#)

WWAN Menu Options

- 1 Choose **WWAN** from the menu bar at the top of the Home page.



- 2 Select one of the following:
 - **Status** — to view information about your internet connection, TCP/IP, and to access the WWAN Log.
 - **3G** — to view information about the 3G network and 3G modem, a traffic counter, and to access service updates.
 - **4Gs** — to view information about the 4G network and 4G modem, and a traffic counter.
 - **Settings** — to access options to allow your MiFi device to automatically connect, allow guests to establish the Internet connection, determine roaming and network technology, and to setup a data link.

Status

The Status page provides information about your internet connection, TCP/IP, and access to the WWAN Log.

Opening the Page

- ▶ Choose **WWAN > Status** from the menu bar.

The Internet Status page opens.

The screenshot shows the 'Internet Status' page of a mobile device management interface. At the top, it displays the phone number '8582136239' and the user 'Admin'. The interface includes a navigation bar with 'Home', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System'. The 'WWAN' section is active, showing 'Sprint EvDO RevA Connected' with a 'Disconnect' button. Below the navigation bar, the 'Internet Status' section is expanded, showing three sub-sections: 'Internet Connection', 'TCP/IP', and 'WWAN Log'. The 'Internet Connection' section displays connection details, the 'TCP/IP' section displays network configuration, and the 'WWAN Log' section is currently empty with a 'Refresh' button.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint

Disconnect

Sprint EvDO RevA Connected

Home Applications Wi-Fi **WWAN** Router System

Internet Status

Internet Connection

| | | | |
|-------------------|-------------|----------------|-----------|
| Connection Status | Connected | Connected Time | 00:26:31 |
| Network | Sprint | Received | 194.60 KB |
| Technology | EvDO RevA | Transmitted | 107.20 KB |
| Workmode | | | |
| Roaming | Not Roaming | | |

TCP/IP

| | |
|-------------|-----------------|
| IP Address | 173.127.38.48 |
| Subnet Mask | 255.255.255.255 |
| Gateway | 173.127.38.48 |
| DNS | 68.28.50.91 |

WWAN Log

Refresh

NOVATEL WIRELESS

POWERED BY MiFi MIFI 4082

Internet Connection

The Internet Connection section of the Internet Status page gives you the following information:

- Status of the connection
- Network connected to
- Technology of connection
- Whether or not you are roaming
- The current profile
- The number of bytes received and transmitted
- The duration of the current connection

TCP/IP

The TCP/IP section of the Internet Status page gives you the following information about your MiFi device:

- Local IP address
- Subnet Mask
- Gateway IP address
- DNS server IP address

3G

The 3G page provides you with information on the 3G network and 3G modem, a traffic counter, and access to service updates.

Opening the Page

- ▶ Choos **WWAN > 3G** from the menu bar.

The 3G page opens. The details for the 3G network and modem currently in use are shown.

The screenshot shows a web interface for a 3G network. At the top, there is a header with the phone number 8582136239, the Sprint logo, and navigation links for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. Below the header is a menu bar with options: Home, Applications, Wi-Fi, **WWAN**, Router, and System. The main content area is titled '3G' and contains four sections: '3G Network', '3G Modem', 'Traffic Counters', and 'Service Updates'. The '3G Network' section shows details like Active status (Yes), Technology (EvDO), Network Operator (Sprint), and Workmode (2). The '3G Modem' section shows details like Manufacturer (Novatel Wireless), Model (MiFi4082 SPRINT), Firmware Version, MEID, ESN, MDN, MSID, NAI, and PRL Version. The 'Traffic Counters' section shows Start Date (8/19/2010), Total Connect Time (00:30:49), Data Received (258.51 GB), Data Transmitted (202.09 GB), and Total Data (460.60 GB). The 'Service Updates' section has buttons for 'Update PRL' and 'Update Profile', and a 'Diagnostics' link. The footer includes the Novatel Wireless logo and 'POWERED BY MiFi MiFi 4082'.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint

Disconnect

Sprint EvDO RevA Connected

Home Applications Wi-Fi **WWAN** Router System

3G

3G Network

| | | | |
|------------------|--------|-------|---------|
| Active | Yes | RSSI | -89 dBm |
| Technology | EvDO | Ec/Io | 0 |
| Network Operator | Sprint | SID | 0 |
| Workmode | 2 | | |

3G Modem

| | | | |
|------------------|---------------------------------|-------------|-----------------------------------|
| Manufacturer | Novatel Wireless | MDN | 8582136239 |
| Model | MiFi4082 SPRINT | MSID | |
| Firmware Version | 2.0.00.128-00 [2010-08-13 18:00 | NAI | A1000013B000063@hcm.sprintpcs.com |
| MEID | A1000013B000063 | PRL Version | 60769 |
| ESN | 0 | | |

Traffic Counters

| | |
|--------------------|-----------|
| Start Date | 8/19/2010 |
| Total Connect Time | 00:30:49 |
| Data Received | 258.51 GB |
| Data Transmitted | 202.09 GB |
| Total Data | 460.60 GB |

Service Updates

Update PRL Update Profile Diagnostics

NOVATEL WIRELESS

POWERED BY MiFi MiFi 4082

4G

The 4G page provides you with information on the 4G network, the 4G modem, and a traffic counter.

Opening the Page

- ▶ Choose **WWAN > 4G** from the menu bar.

The 4G page opens.

The screenshot shows a web interface for a mobile device. At the top, it displays the phone number 8582136239 and user information: Hello, Admin | Landing Page | Logout | Help. The Sprint logo is on the left, and status icons for battery, Wi-Fi, and cellular are on the right, along with a Disconnect button. A navigation bar below the logo has tabs for Home, Applications, Wi-Fi, **WWAN**, Router, and System. The main content area is titled '4G' and contains three sections:

- 4G Network**: A table showing network parameters.

| | | | |
|------------------|---------|------------------|------------|
| Active | No | TX Power | 0 dBm |
| Network Operator | Sprint | Center Frequency | Not Set |
| RSSI | -76 dBm | Preamble | 0 |
| BSID | | NSP-ID | 0 |
| CINR | 0 dB | NAP-ID | 1258357559 |
- 4G Modem**: A table showing modem software versions.

| | |
|------------------|-------------------|
| Package Version | BECE3301 6000 4.2 |
| Firmware Version | 5.2.2899 |
| Library Version | 5.2.0076 |
| Driver Version | 5.2.50 |
- Traffic Counters**: A table showing connection and data usage statistics.

| | |
|-----------------------|------------|
| Start Date | 12/31/1969 |
| Total Connection Time | 00:00:00 |
| Data Received | 0.00 KB |
| Data Transmitted | 0.00 KB |
| Total Data | 0.00 KB |

At the bottom, there is a Novatel Wireless logo on the left and 'powered by MiFi MIFI 4082' on the right.

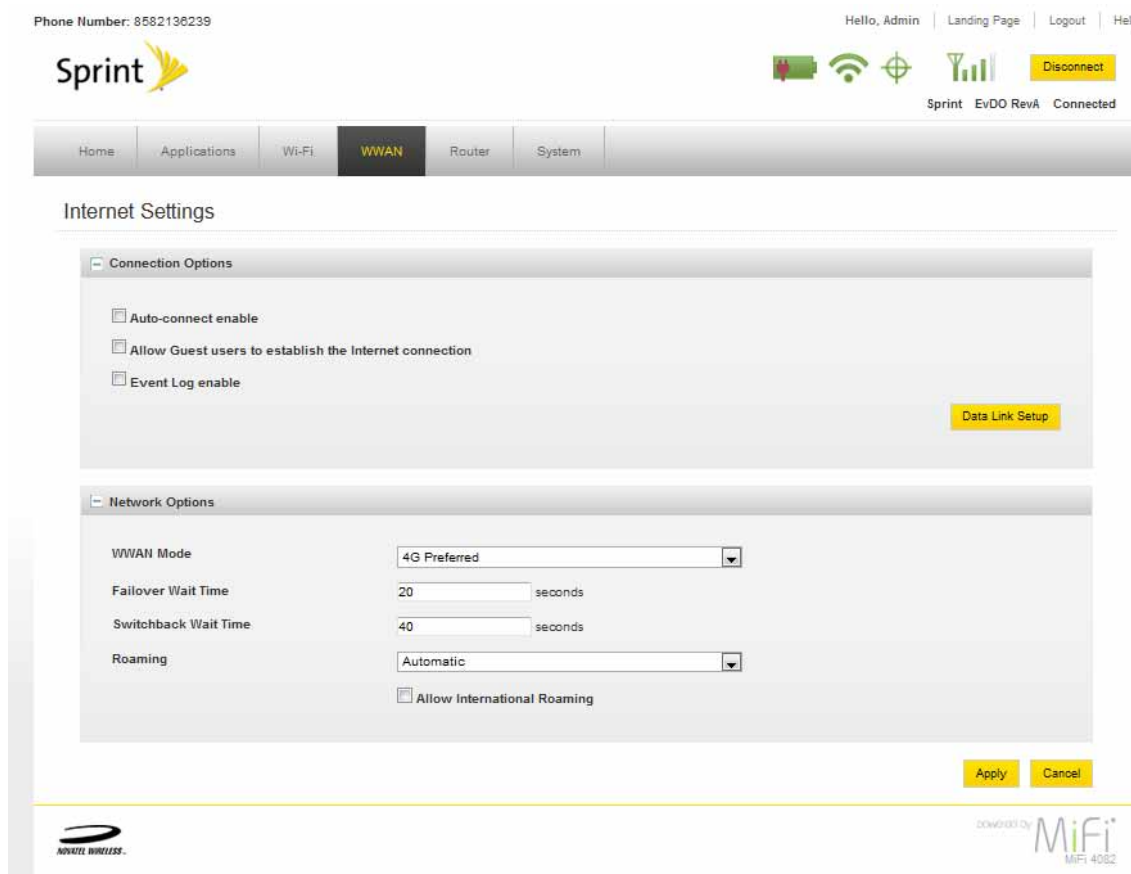
Settings

The Settings page provides access to options to allow your MiFi device to automatically connect, allow guests to establish the Internet connection, determine roaming and network technology, and to setup a data link.

Opening the Page

- Choose **WWAN > Settings** from the menu bar.

The Internet Settings page opens.



Internet Settings Page

Connection Options

Auto-connect enable

Auto-connect allows your MiFi device to connect to your provider's network automatically whenever it is turned on.

Allow Guest users to establish the Internet connection

Check this box to have the Connect button appear on the Landing page. This also enables Guest users access to unlock the SIM PIN if prompted during a connection.

Event Log Enable

Check this box to enable the Event Log.

Network Options

- WWAN Mode — Select 3G Only, 4G Only, 3G Preferred, or 4G Preferred
- Failover Wait Time — Type in the desired number of seconds
- Switchback Wait Time — Type in the desired number of seconds
- Roaming — Select Automatic or Home Network Only. You can allow international roaming by marking the check box.
 - Home Network — Your MiFi device only auto-connects to the home network when it is on.
 - Automatic — Your MiFi device connects to any available network when it is on.

IMPORTANT Additional charges may apply for international roaming. Please consult your network operator.

► After selecting your network options settings, click **Apply**.

Router Configuration

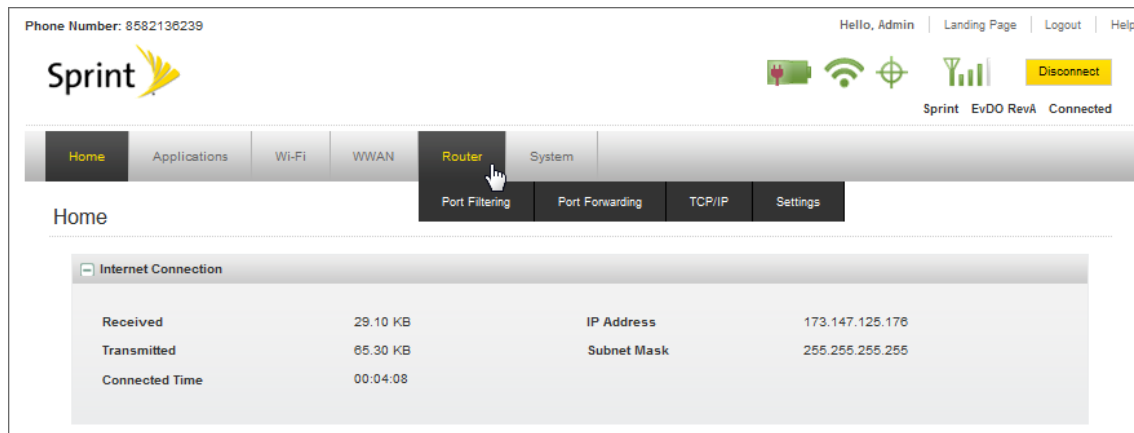
The Router Menu gives you access to options that allow you to configure traffic through your MiFi device.

The section contains the following information:

- [Router Menu](#)
- [Port Filtering](#)
- [Port Forwarding](#)
- [TCP/IP](#)
- [Router Settings](#)

Router Menu

- 1 Choose **Router** from the menu bar.



- 2 Select one of the following:
 - Port Filtering — Create a list of applications that are allowed to access the Internet.
 - Port Forwarding — Create a list of applications that are allowed to access your computer from the Internet. You might use this if you have an FTP server on your system or play certain online games.
 - TCP/IP — See your MiFi device IP address and MAC address.
 - Settings — Enable DHCP and VPN passthrough.

Port Filtering

Port Filtering allows you to enhance the security of your system by only allowing certain applications to reach the Internet.

Opening the Page

- ▶ Choose **Router > Port Filtering** from the menu bar. The Port Filtering page opens.

The screenshot shows the Sprint MiFi 4052 Router's web interface. At the top, the phone number is 8582136239, and the user is logged in as Admin. The navigation menu includes Home, Applications, Wi-Fi, WWAN, Router (selected), and System. The main content area is titled "Port Filtering" and contains three sections:

- Filter Outgoing Traffic:** Includes a checkbox for "Enable Port Filtering". A note states: "If enabled, only traffic from Allowed Applications can access the Internet."
- Allowed Applications:** A list of checkboxes for various protocols: DNS (Domain Name Server), HTTP, HTTPS, FTP, E-mail (POP3), E-mail (IMAP), Telnet, and RTP.
- Custom Applications:** A list of six numbered checkboxes, each followed by an empty text input field for custom application names.

At the bottom right of the configuration area are "Apply" and "Cancel" buttons. The footer includes the Sprint logo and "powered by MiFi MIFI 4052".

Port Filtering Page

This page allows you to enable Port Filtering, select common applications to allow access to the Internet, and set up custom applications for access to the Internet.

To set port filtering for standard applications:

- 1 Open the page.
- 2 Select the **Enable Port Filtering** checkbox.
- 3 Select the check boxes for the applications you want to allow access to the Internet.
- 4 Click **Apply**.

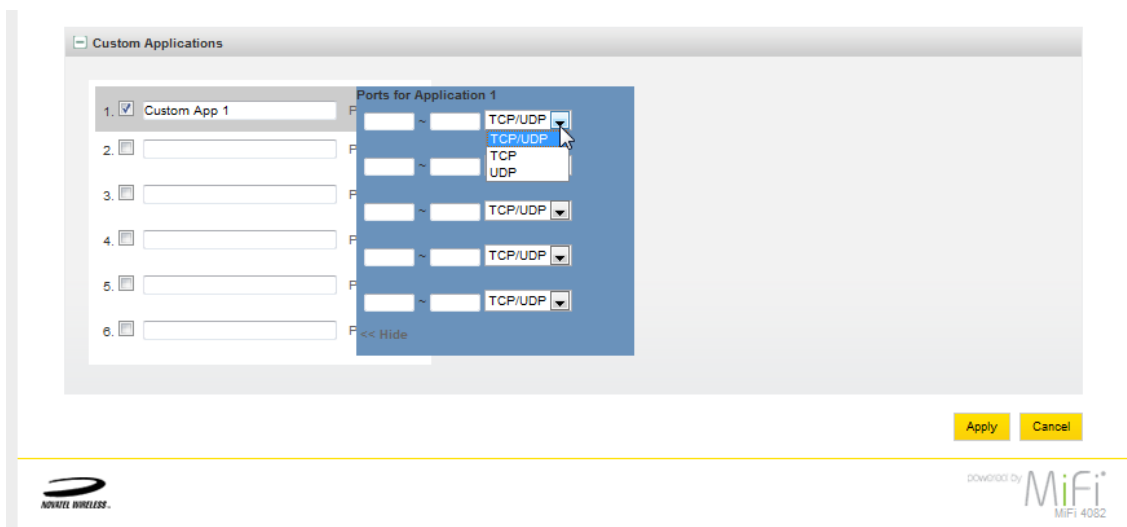
NOTE The device uses standard ports for these applications. If you have applications that do not use the standard ports or that are not listed under Allowed Applications, use Custom Applications.

To set port filtering for custom applications:

In order 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) used by outgoing traffic.

- 1 Open the page.
- 2 Select the **Enable Port Filtering** checkbox.
- 3 Click **Custom Applications**.

The Custom Applications page opens.



The screenshot shows the 'Custom Applications' configuration page. It features a table with six rows for defining custom applications. The first row is active, showing 'Custom App 1' in the application name field. To the right of the table, a blue overlay titled 'Ports for Application 1' is open, displaying a dropdown menu for selecting the protocol. The dropdown menu is currently open, showing options for 'TCP/UDP', 'TCP', and 'UDP'. The 'Ports for Application 1' overlay also shows fields for port ranges and a 'Hide' button. At the bottom right of the page, there are 'Apply' and 'Cancel' buttons. The Novate Wireless logo is visible in the bottom left corner, and the text 'powered by MiFi MIFI 4082' is in the bottom right corner.

- 4 Enter a name for the application and click the **Ports** link.

The Ports for Application # entry area overlay the page.

- 5 Enter the port number or port number range. You can enter up to five ports or port ranges for each application.
 - Single port — enter the port number in both fields.
 - Port range — enter the beginning port in the left field and the ending port in the right field.
- 6 For each port row, select the protocol (TCP, UDP, or both) used by that port or port range.
- 7 Click **Hide**.
- 8 Click **Apply** on the Custom Applications page.
- 9 Click **Apply** on the Port Filtering page.

Port Forwarding

Incoming traffic from the Internet is normally prevented by the firewall from reaching devices on your local wireless network. Use port forwarding to allow Internet users to reach any server you are running on your computer, such as an FTP server. Also some online games require incoming access to work properly.

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

Opening the Page

- Choose **Router > Port Forwarding** from the menu bar. The Port Forwarding page opens.

Phone Number: 8582136239 Hello, Admin | Landing Page | Logout | Help

Sprint Sprint EvDO RevA Connected

Home Applications Wi-Fi WWAN **Router** System

Port Forwarding

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"/> |

DMZ

Enable DMZ

IP Address of Client:

If DMZ is enabled, all unrecognized incoming traffic will be forwarded to the specified client

NOVATEL WIRELESS powered by **MiFi**
MiFi 4052

Port Forwarding Page

This page allows you to enter the local static IP address for each application that you want to receive traffic from the Internet.

- ① Select the checkbox for the application you want to enable.
- ② Enter the local static IP address of the device hosting the application in the **IP Address of Wi-Fi Client** field.
- ③ Click **Apply**.

IMPORTANT Port forwarding creates a security risk and should be disabled when not required.

TCP/IP

The TCP/IP page allows you to view the local (WLAN) IP address and the MAC address for your MiFi device.

Opening the Page

- ▶ Choose **Router** > **TCP/IP** from the menu bar. The TCP/IP page opens.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint

Disconnect

Sprint EvDO RevA Connected

Home Applications Wi-Fi WWAN **Router** System

TCP/IP

TCP/IP

IP Address: 192.168.1.1

Subnet Mask: 255.255.255.0

MAC Address: 00:15:FF:00:50:68

DHCP Server

DHCP Server enable

DHCP Start IP Address: 192.168.1.2

DHCP End IP Address: 192.168.1.192

DHCP Lease Time: 1440 minutes

Clients

| Interface | IP Address | IP Type | Hostname | MAC Address | Date/Time |
|-----------|------------|---------|----------|-------------|-----------|
|-----------|------------|---------|----------|-------------|-----------|

Refresh

Apply Cancel

powered by MiFi MIFI 4052

TCP/IP Page

This page gives you status information about yoTCP/IP, the DHCP Server, and the Clients currently connected to your MiFi device

TCP/IP

- Local IP Address
- Subnet Mask
- MAC Address of your MiFi device

DHCP Server

- DHCP Server enable
 - DHCP Start IP Address
 - DHCP End IP Address
 - DHCP Lease Time

Clients

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

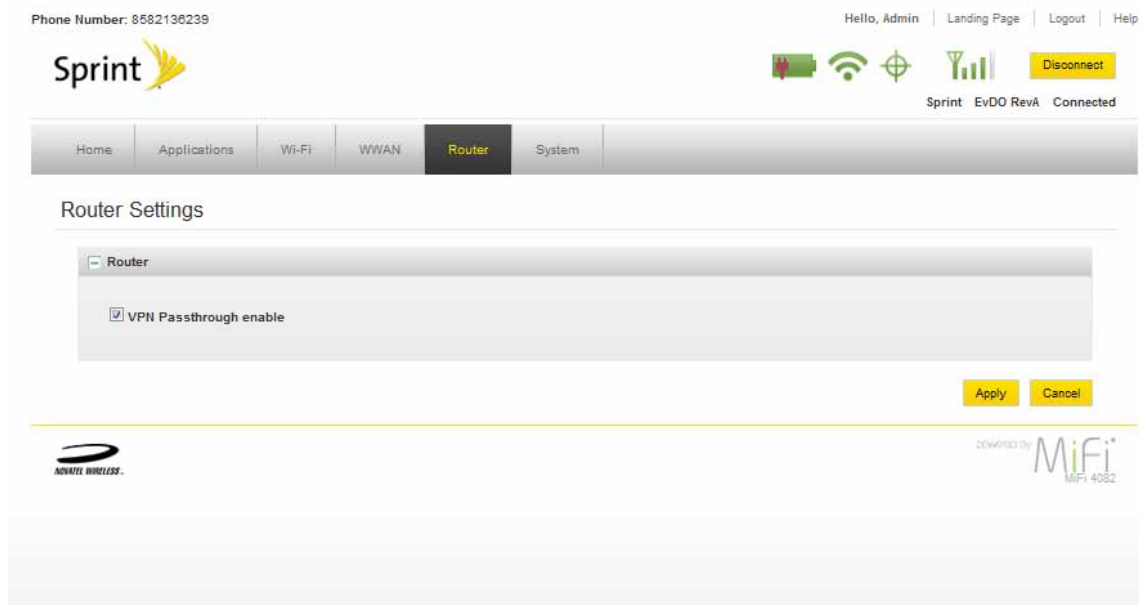
Router Settings

The Router Settings page allows you to enable DHCP and allow VPN passthrough.

Opening the Page

- ▶ Choose **Router > Settings** from the menu bar.

The Router Settings page opens.



Router Settings Page

VPN Passthrough enable

VPN Passthrough is required if you are going to connect to a VPN (such as to your office).

- ▶ Select or deselect the checkbox to enable or disable VPN Passthrough and click **Apply**.

System Configuration

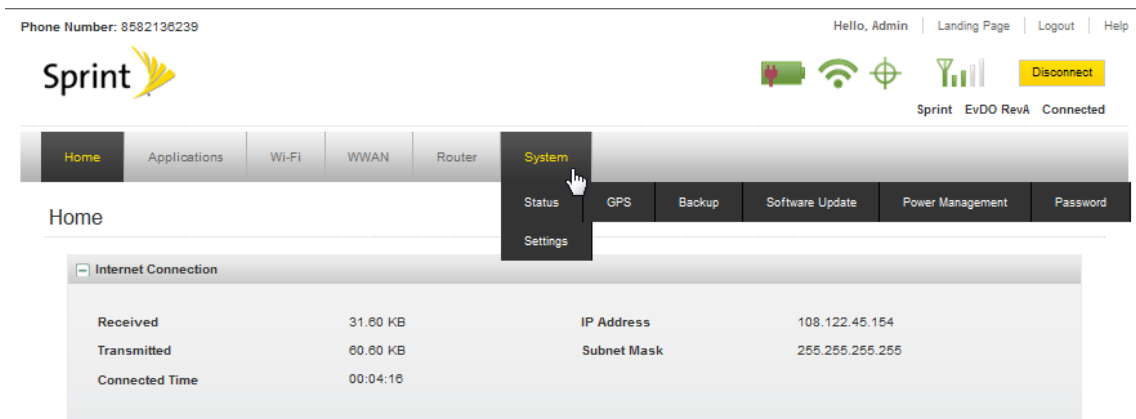
The System Menu gives you access to settings and features that affect your MiFi device as a whole.

The section contains the following information:

- [System Menu](#)
 - [System Status](#)
 - [GPS](#)
 - [Backup](#)
 - [Software Update](#)
 - [Power Management](#)
 - [Password](#)

System Menu

- 1 Choose **System** from the menu bar.



- 2 Select one of the following:
 - Status — to view information about your device and a system log.
 - GPS — to view GPS status and to configure GPS options
 - Backup — to set power saving modes.
 - Software Update — to view a software version history and configure network update frequency.
 - Power Management — to configure your device's energy usage.
 - Password — to set the administrative password.

System Status

The System Status page provides you with information about your MiFi device.






Opening the Page

- ▶ Choose **System > Status** from the menu bar.

The System Status page opens.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint      [Disconnect](#)

Sprint EvDO RevA Connected

Home Applications Wi-Fi WWAN Router **System**

System Status

System Information


| | |
|-------------------------------|--|
| Manufacturer | Novatel Wireless |
| Model | MiFi 4082 |
| Serial No. | SQ190610500082 |
| Access Point Firmware Version | 4.218 RC207.0 |
| Router Firmware Version | 1.0.00.32 |
| 3G Modem Firmware Version | 2.0.00.128-00 [2010-08-13 18:00:20] |
| 4G Modem Firmware Version | 2.0.00.128-00 [2010-08-13 18:00:20] |
| Kernel Version | 2.6.29-1 |
| SDK Version | 2.2 |
| Web UI version | v38.sp08-08131925 |
| UA Version | Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 6.1; WOW64; Trident/4.0; GTB6.5; SLCC2; .NET CLR 2.0.50727; .NET CLR 3.5.30729; .NET CLR 3.0.30729; Media Center PC 6.0; MDDC) |

System Log

```
Log start08/19/2010 05:35:41pm GMT
1/1/70 > Current Time
1/1/70 >
```

[Refresh](#)

[Restart/Reboot](#) [Reset to Factory Defaults](#) [Reset Modem](#)

 NOVATEL WIRELESS

powered by **MiFi**
MiFi 4082

System Status Page

System Information

System Information includes the following:

- Manufacturer – Novatel Wireless
- Model Number
- Serial Number
- Access Point Firmware Version
- Router Firmware Version
- Modem Firmware Version
- Kernel Version
- SDK Version
- Web User Interface Version
- User Agent Version

Restart/Reboot

You can restart your MiFi device from this page.

- ▶ Click **Restart/Reboot** to reset your MiFi device (as if you turned the power off then on again).

IMPORTANT Your Internet and Wi-Fi connections will be lost and you will have to reconnect.

Reset to Factory Defaults

- ▶ Click **Reset to Factory Defaults** to set all settings back to factory settings.

IMPORTANT

- Your Internet and Wi-Fi connections will be lost and you will have to reconnect.
 - In addition, you will have to reconfigure your profiles.
-

Reset Modem

- ▶ Click **Reset Modem** to restart your MiFi device using the same settings.

GPS

The System GPS page allows you to view GPS status and to configure GPS options.

Opening the Page

- ▶ Choose **System > GPS** from the menu bar. The GPS page opens.

The screenshot shows the Sprint Mifi 4022 web interface. At the top, the phone number is 8582136239. The user is logged in as Admin. The navigation menu includes Home, Applications, Wi-Fi, WWAN, Router, and System (selected). The main content area is titled "GPS" and contains two sections: "GPS Status" and "GPS Configuration".

GPS Status

| | | |
|------------|---------|----------------------------|
| GPS Status | Enabled | Speed |
| Last Fix | | Heading |
| Latitude | | HEPE (Horizontal Accuracy) |
| Longitude | | Satellites |
| Altitude | | |

GPS Configuration

- Enable GPS
 - NMEA over USB (requires Driver, installed automatically on Windows)
 - GPS Startup: **On demand**

Buttons: Apply, Cancel

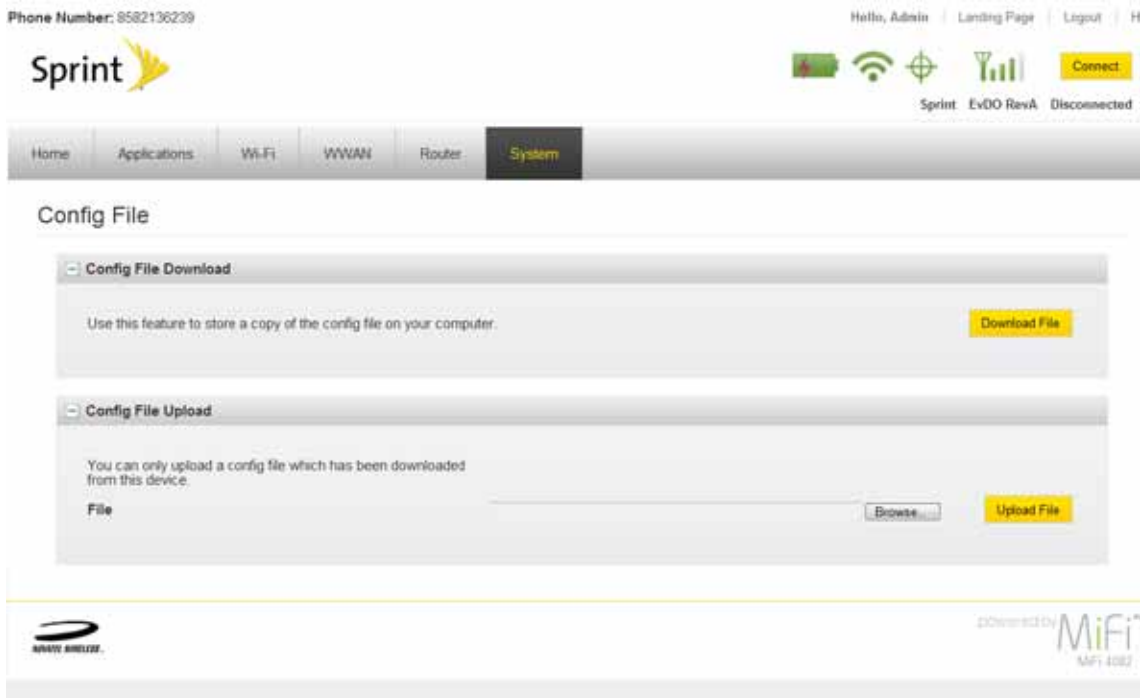
Logos: NOVATEL WIRELESS, powered by MiFi MIFI 4022

Backup

The System Backup page allows you to store a copy of the config file on your computer, and to upload a config file to the MiFi device from your computer. The backup file is stored in an encrypted binary format.

Opening the Page

- Choose **System > Backup** from the menu bar. The Config File page opens.



Software Update

The Software Update page allows you to review the software version history and to check for and download network updates.

Opening the Page

- ▶ Choose **System > Software Update** from the menu bar. The Software Update page opens.

Phone Number: 8582136239

Hello, Admin | Landing Page | Logout | Help

Sprint

Disconnect

Sprint EvDO RevA Connected

Home Applications Wi-Fi WWAN Router **System**

Software Update

Software Version

Current Software Version

Release Date

Installation Date

History

| Version | Released | Installed | Size |
|---------|------------|------------|--------|
| V1.3.1 | 05/22/2010 | 05/22/2010 | 1234KB |
| V1.3.1 | 05/22/2010 | 05/22/2010 | 1234KB |
| V1.3.1 | 05/22/2010 | 05/22/2010 | 1234KB |

Network Update

Check for updates:

Last check

Update availability: V1.3.1 05/22/2010

Check Now

Download & Install

Apply Cancel

ADVANTE WIRELESS

Download by MiFi MFi 4082

Software Update Page

Software Version

The Software Version section provides you with a software history including version, release date, installation date and file size.

Network Update

- Check for updates — Select a 30 day interval from never to every 180 days.
 - Last check — Click **Select Now** to check for the latest network updates.
 - Update availability — Click **Download and Install** to update the software to the newest version.
- ▶ Click **Apply** to finalize your software updates.

Power Management

Your MiFi device can turn itself off when it is idle and running on battery power. The Power Management page allows you to set the timing for when your MiFi device switches off.

Opening the Page

- ▶ Choose **System > Power Management** from the menu bar. The Power Management page opens.

The screenshot shows the web interface for a MiFi device. At the top, there is a header with the phone number 8582138239, the Sprint logo, and navigation links for 'Hello, Admin', 'Landing Page', 'Logout', and 'Help'. Below the header is a menu bar with options: Home, Applications, Wi-Fi, WWAN, Router, and System (which is highlighted). The main content area is titled 'Power Management' and contains three sections: 'LED Control' with a 'Disable LEDs' checkbox; 'Standby Mode' with two dropdown menus for 'When on battery power, switch to standby mode' and 'When on AC power, switch to standby mode', both set to 'After 30 minutes idle time'; and 'Automatic Shutdown' with a dropdown menu for 'When on battery power, shutdown' set to 'Never'. At the bottom right of the form are 'Apply' and 'Cancel' buttons. The footer includes the Novatel Wireless logo and 'powered by MiFi MIFI 4082'.

Power Management Page

The Power Management page allows you to set your MiFi device to turn itself off when it is idle and running on battery power. You can also disable the LEDs, which turns off the status LEDs and clears the Status Display Panel.

- LED Control — Never to 60 minutes
- Standby Mode — Never to 60 minutes
- Automatic Shutdown — Never to 60 minutes

- ▶ After you select your power management options, click **Apply**.

Password

The Password page allows you to change the administrative password that gives access to the browser interface.

Opening the Page

- ▶ Choose **System > Password** from the menu bar.

The Password page opens.

The screenshot shows the administrative interface of a mobile device. At the top, it displays the phone number 8582136239 and the user name 'Hello, Admin'. There are links for 'Landing Page', 'Logout', and 'Help'. The Sprint logo is on the left, and a 'Disconnect' button is on the right. Below this is a navigation bar with tabs for 'Home', 'Applications', 'Wi-Fi', 'WWAN', 'Router', and 'System' (which is highlighted). The main content area is titled 'Password' and contains a 'Set Administration Password' form. The form has three input fields: 'Current Password', 'New Password', and 'Verify New Password', each with a masked password field. To the right of the 'New Password' field, there is a yellow box that says 'Password Strength: Normal'. Below the 'Verify New Password' field, there is a green box that says 'Passwords Match'. At the bottom right of the form, there are 'Apply' and 'Cancel' buttons. The footer of the page includes the Novatel Wireless logo and the text 'POWERED BY MiFi MIFI 4082'.

Password Page

This page allows you to create a new administrative password.

- 1 Type your current password in the Current Password box.
- 2 Enter the new password (must have 4 to 64 characters) in the New Password box and again in the Verify New Password box.
- 3 Click **Apply**.

4

Troubleshooting

Overview
Common Problems and Solutions
Using the Master Reset Button

Overview

The following tips will help solve many common problems encountered while using your MiFi device.

- Make sure you are using your MiFi device in the correct geographic region.
- Ensure that your network operator's wireless coverage extends to your current location.

When properly installed, your MiFi device is a highly reliable product. Most problems are caused by one of these issues:

- System resources required by your MiFi device are being used by other devices.
- Network coverage is unavailable due to coverage area or an account or network problem.

Common Problems and Solutions

Before you read on, all of the steps mentioned here are given in more detailed form elsewhere in the user guide. When a reference is given, click the link to go to the more detailed information.

The following are some common problems and solutions.

No service is available.

- OR -

I get a “Limited or No Connectivity” message.

- ▶ You are outside of the coverage area of your network operator.
- ▶ Check with your network operator. There may be a problem with your account.
- ▶ Reorient your MiFi 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 MiFi device close to a window.

The device has no power.

The LED indicator is off and does not come on when the Power button is pressed.

- ▶ Ensure the battery is properly seated in the device.
- ▶ Ensure the battery is fully charged. Plug in the AC mains charger for at least 4 hours.

I forgot my password.

- ▶ You can reset the device to factory defaults using the master reset button. [See [Using the Master Reset Button](#) (page 68).]

I cannot connect to my MiFi device.

- ① Make sure the WiFi LED is on .

If the LEDs are not on, check your battery.

- ② Make sure your Windows PC / Mac AirPort is turned on. (Check your computer help if you need assistance.)
- ③ Open your wireless network connection list.
 - Windows: Right-click icon and select **View Available Networks**.
 - Mac: Pull down list from AirPort icon.
- ④ Select the MiFi network name (in Windows, click **Connect**).

When the your MiFi device is connected to the network, the WiFi LED begins to blink.

My network does not appear in the wireless network list.

- Verify that the MiFi LEDs are on and are not showing an error condition. Refer to your Quick Start Guide for a table of LED states.
- Refresh your network list.
 - 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 MiFi 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 wrong, you will not be able to connect to the network.

How do I disconnect from the network?

- Login to your MiFi device and click **Disconnect**.
 1. Open the MiFi Home page.
 2. Then type your administrative password into the login window and click **Login**.
 3. Click the **Disconnect** button.

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

- Open the MiFi Home page. The number of clients (users) currently connected to your MiFi device is in the WiFi 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 WiFi device.

Where can I find information about Internet connectivity and my WiFi setup?

- Open the MiFi Login Home page.

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

- Login to your MiFi device and choose **System > Status**. [See [System Status](#) (page 78).]

How can I check the battery level of my MiFi device?

- ▶ Open the MiFi Login Home page. The battery status icon is displayed in the menu bar. For more detailed information, login and choose **Internet > Diagnostics**. Then click **Modem Status**. You can

How do I check the available space on the microSDHC card?

- ▶ Open the MiFi Login Home 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 MiFi device?

- ▶ Press and hold the Power button for 5 seconds until the LEDs turn off.

What is the default administrative/login password?

- ▶ admin

How do I access information on the WiFi network and WiFi clients?

- ▶ Login to your MiFi device and choose **Settings > WiFi > Status** to open the WiFi Status page and see the current Wi-Fi Network and Wi-Fi Clients information. [See [WiFi Status](#) (page 58).]

I am having trouble connecting to my office VPN.

- ▶ Login to your MiFi device and choose **Router > Settings**. Select the VPN Passthrough enable checkbox and click **Apply**.

Using the Master Reset Button

Your MiFi device comes with a master reset button that allows you to return it to its factory default state.

The master reset button is recessed in a hole on the back of the device. You need a paperclip or similar object to push the button.

- ① Make sure your MiFi device is powered on.
- ② Locate the master reset button on the back of the device next to the label.



- ③ Insert a paper clip into the hole and hold the button down for five5 seconds until the LED goes off.

Your list of wireless networks will now show the original default network when you first configured your device.

- ④ Connect to your MiFi device again and reconfigure it. You will have to enter your APN and other information again.

Product Specifications and Regulatory Information

Product Specifications
Regulatory
Safety Hazards
Proper Battery Use and Disposal
Limited Warranty and Liability

Product Specifications

Interface

| | |
|------------|-----------------------------|
| microUSB | |
| microSDHC | Up to 16GB |
| SIM socket | 1.8V and 3.0V standard USIM |

Mechanical

| | |
|------------------------|--|
| Dimensions (W x D x H) | 60 mm x 90 mm x 12.5 mm 3.54" x 2.36" x 0.49" |
| Weight | 85 g (3 oz) |
| LED | Two: Multi-color status and Wi-Fi indicator |
| External display | E-Ink; Status icons |
| Battery | Removable Li-ion battery |
| Antenna | Integrated diversity antenna Integrated Wi-Fi antenna Integrated GPS antenna |

Technology/Bands

| | |
|-------------|--|
| WiMAX | 2.5 GHz; 5 and 10 MHz, |
| Data Speeds | Upload: Up to 10 Mbps Download: Up to 5 Mbps |
| CDMA Mode | 1xEV-DO Rev. A/O; 1xRTT |
| Data Speeds | Download: Up to 3.1 Mbps Upload: Up to 1.8 Mbps |
| CDMA Bands | 800/1900 MHz |
| Wi-Fi Mode | 802.11b/g/n |
| A-GPS/S-GPS | GPSOne xTRA and Standalone GPS |

WLAN

| | |
|---------------------------|---------------------------------------|
| 802.11N; 802.11b/g/n | 2.4 GHz |
| Pre-configurable security | WEP/WPA/WPA2 |
| DHCP server | |
| NAT/NAPT | |
| DNS support | |
| VPN pass-through | Auto VPN; WPS (Wi-Fi protected setup) |

Security

| | |
|--|-------------------|
| CDMA authentication/ identification | |
| Dynamic MIP key update; CHAP | EAP-TLS; EAP-TTLS |

Standards/Approvals/Certifications

| | |
|---------------------------|----------------------|
| IS 2000 | CDMA 1xRTT |
| IS 683A | Service provisioning |
| IS 707A | Data |
| IS 856A/866 | EV-DO Rev. A/O |
| IEEE 1725 | |
| Industry Canada | |
| Wi-Fi Alliance | |
| CDG (stages 1,2,3) | CCF 57 Level 1,2 |
| WiMax Forum Certification | CRSL 10 |

Federal Communications Commission Notice (FCC United States)

This equipment has been tested to, and found to be within the acceptable limits for a Class B digital device, pursuant to part 15 of the FCC Rules and Industry Canada ICES-003. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment.

This equipment generates radio frequency energy and is designed for use in accordance with the manufacturer's user manual. However, there is no guarantee that interference will not occur in any particular installation.

If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are 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 the 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/television technician for help.

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules and Industry Canada ICES-003 for EMI compliance.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

WARNING: DO NOT ATTEMPT TO SERVICE THE WIRELESS COMMUNICATION DEVICE YOURSELF. SUCH ACTION MAY VOID THE WARRANTY. THE MiFi DEVICE IS FACTORY TUNED. NO CUSTOMER CALIBRATION OR TUNING IS REQUIRED. CONTACT TECHNICAL SUPPORT FOR INFORMATION ABOUT SERVICING YOUR WIRELESS COMMUNICATION DEVICE.

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

NOTE: The Radio Frequency (RF) emitter installed in your device must not be located or operated in conjunction with any other antenna or transmitter, unless specifically authorized by Novatel Wireless Technologies.

MODIFICATIONS: The FCC requires that you be notified that any changes or modifications made to this device that are not expressly approved by your service provider may void your authority to operate the equipment.

FCC Equipment Authorization ID:

PKRNVWMIFI4082

To comply with FCC RF exposure requirements, the MiFi4082 device should not be used in configurations that cannot maintain at least 12mm (0.47" or 1/2") from a user.

To maintain a distance of 12mm (0.47" or 1/2") from a user this device shall not be used while in your pocket.

When utilizing the USB cable please ensure that the MiFi device is not placed on your lap, hand or close to a user or bystanders to satisfy RF Exposure requirements.

Limitation of Liability

The information in this manual is subject to change without notice and does not represent a commitment on the part of Novatel Wireless. NOVATEL WIRELESS AND ITS AFFILIATES SPECIFICALLY DISCLAIM LIABILITY FOR ANY AND ALL DIRECT, INDIRECT, SPECIAL, GENERAL, INCIDENTAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE OR ANTICIPATED PROFITS OR REVENUE ARISING OUT OF THE USE OR INABILITY TO USE ANY NOVATEL WIRELESS PRODUCT, EVEN IF NOVATEL WIRELESS AND/OR ITS AFFILIATES HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR THEY ARE FORESEEABLE OR FOR CLAIMS BY ANY THIRD PARTY.

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Safety Hazards

Do not operate your MiFi device in an environment that may be susceptible to radio interference resulting in danger specifically;

Areas where prohibited by the law

- Follow any special rules and regulations and obey all signs and notices. Always turn off your MiFi device (or the host device and remove the modem from the USB port) when instructed to do so, or when you suspect that it may cause interference or danger.

Where explosive atmospheres may be present

- Do not operate your modem in any area where a potentially explosive atmosphere may exist. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Be aware and comply with all signs and instructions.
- Users are advised not to operate the modem while at a refueling point or service station. Users are reminded to observe restrictions on the use of radio equipment in fuel depots (fuel storage and distribution areas), chemical plants or where blasting operations are in progress.
- Areas with a potentially explosive atmosphere are often but not always clearly marked. Potential locations can include gas stations, below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), areas where the air contains chemicals or particles, such as grain, dust or metal powders, and any other area where you would normally be advised to turn off your vehicle engine.

Near Medical and life support equipment

- Do not operate your device in any area where medical equipment, life support equipment, or near any equipment that may be susceptible to any form of radio interference. In such areas, the host communications device must be turned off. The device may transmit signals that could interfere with this equipment.

On an aircraft, either on the ground or airborne

- In addition to FAA requirements, many airline regulations state that you must suspend wireless operations before boarding an airplane. Please ensure that your MiFi device (or the host device is turned off) and (if in USB Mode, your modem is removed from the USB port) prior to boarding aircraft in order to comply with these regulations. The modem can transmit signals that could interfere with various onboard systems and controls.

While operating a vehicle

- The driver or operator of any vehicle should not operate a wireless data 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 countries, operating such communications devices while in control of a vehicle is an offense.

Proper Battery Use and Disposal

CAUTION! Never dispose of batteries in a fire because they might explode.

WARNING!

In the event of a battery leak:

- Do not allow the liquid to come in contact with the skin or the eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.
 - Seek medical advice immediately if a battery has been swallowed.
 - Contact your local recycling center for proper battery disposal.
-

Guidelines for Safe and Responsible Battery Use

- Do not disassemble or open, crush, bend or deform, puncture, or shred.
- Do not modify or remanufacture, attempt to insert foreign object into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
- Only use the battery for the system for which it was specified.
- Only use the battery with a charging system that has been qualified with the system per this standard. Use of an unqualified battery or charger may present a risk of fire, explosion, leakage, or other hazard.
- Do not short circuit a battery or allow metallic or conductive object to contact the battery terminals.
- Replace the battery only with another battery that has been qualified with the system per this standard. Use of an unqualified battery may present a risk of fire, explosion, leakage, or other hazard.
- Promptly dispose of used batteries in accordance with local regulations.
- Battery usage by children should be supervised.
- Avoid dropping the device or battery. If the device or the battery is dropped, especially on a hard surface, and the user suspects damage, take it to a service centre for inspection.
- Improper battery use may result in a fire, explosion, or other hazard.

Limited Warranty and Liability

Novatel Wireless, Inc. warrants for the 12 month period immediately following receipt of the Product by Purchaser that the Product will be free from defects in material and workmanship under normal use. THESE WARRANTIES ARE EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

The exclusive remedy for a claim under this warranty shall be limited to the repair or replacement, at Novatel Wireless' option, of defective or non-conforming materials, parts or components. The foregoing warranties do not extend to (I) non conformities, defects or errors in the Products due to accident, abuse, misuse or negligent use of the Products or use in other than a normal and customary manner, environmental conditions not conforming to Novatel Wireless' specification, of failure to follow prescribed installation, operating and maintenance procedures, (II) defects, errors or nonconformity's in the Product due to modifications, alterations, additions or changes not made in accordance with Novatel Wireless' specifications or authorized by Novatel Wireless, (III) normal wear and tear, (IV) damage caused by force of nature or act of any third person, (V) shipping damage, (VI) service or repair of Product by the purchaser without prior written consent from Novatel Wireless, (VII) products designated by Novatel Wireless as beta site test samples, experimental, developmental, reproduction, sample, incomplete or out of specification Products, or (VIII) returned products if the original identification marks have been removed or altered.

Glossary

Glossary

- **3G** — Third Generation. 3G refers to the third 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.
- **APN** — Access Point Name. The APN is an alphanumeric string that identifies the particular network service that is being accessed. These are used by GPRS and UMTS networks.
- **bps** — bits per second. The rate of data flow.
- **Broadband** — High-capacity high-speed, transmission channel with a wider bandwidth than conventional modem lines. Broadband channels can carry video, voice, and data simultaneously.
- **CDMA** — Code Division Multiple Access. It is the underlying channel access method used by some mobile phone standards.
- **Computing Device** — Any of a variety of computer-like devices (for example, desktop computer, laptop, tablet PC, smart phone, and 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.
- **EDGE** — Enhanced Data for GSM Environment or Enhanced Data rates for Global Evolution. A faster version of GSM wireless service, it allows data to be delivered at rates of 384 Kbps and enables the delivery of multimedia and other broadband applications. EDGE became available in 2001.
- **ESN** — Electronic Serial Number. A unique 32-bit number embedded in a wireless device that identifies the device.
- **ExpressCard** — PCMCIA's hardware standard for high-performance expansion of notebook computers. Intended to replace the PC Card (formerly PCMCIA card) standard.
- **FID** — Factory IDentification. Unique tracking number for factory builds.
- **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.
- **GPRS** — General Packet Radio Services. A system used by GSM mobile phones for transmitting IP

packets. It also provides support for WCDMA based 3G networks.

- **GSM** — Global System for Mobile communication. A digital mobile telephony system widely used in Europe and other parts of the world. GSM was first launched in 1991 and is the most widely used of the three digital wireless telephony technologies (TDMA, GSM, and CDMA). GSM uses a variation of TDMA.
- **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.
- **Host Name** — 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.
- **Hot-Swappable** — The ability to safely remove and replace a component (for example, a memory card or USB device) from a device or computer while it is powered on.
- **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.
- **HSUPA** — High Speed Uplink Packet Access. A 3G mobile telephony protocol with up-link speeds up to 5.76 Mbps and downlink speeds up to 7.2 Mbps.
- **HTTP** — Hypertext Transfer Protocol. An application-level protocol for accessing the World Wide Web over the Internet.
- **ICCID** — Integrated Circuit Card IDentification. A serial number stored in and engraved or printed on a SIM card that internationally identifies the card.
- **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.
- **IMEI** — International Mobile Equipment Identity. Used in GSM networks to identify the device. It is usually printed on the device and can often be retrieved using a USSD code.
- **IMSI** — International Mobile Subscriber Identity. Used in GSM networks to identify the subscriber. Usually embedded in the SIM.
- **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).

- **ISP** — Internet Service Provider. Also referred to as the service carrier, an ISP provides Internet connection service. (See Network Operator)
- **Kbps** — Kilobits 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.
- **LTE** — Long Term Evolution. A set of enhancements to UMTS that will provide high throughput, low latency, plug and play and seamless connection to existing networks such as GSM, cdmaOne, etc. LTE is one of the new emerging network technologies often referred to as 4G.
- **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 / microSDHC** — 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.
- **NDIS** — Network Driver Interface Specification. NDIS is a Windows specification for how communication protocol programs (such as TCP/IP) and network device drivers should communicate with each other.
- **Network Mask** — A number that allows IP networks to be subdivided for security and performance.
- **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.
- **NNTP** — Network News Transfer Protocol. An Internet application protocol for reading and posting Usenet (newsgroup) articles.
- **NovaSpeed Technology** — Novatel Wireless's proprietary software that enhances the speed and performance of its mobile broadband modems and enables simultaneous upload and download data transfers.
- **PC Card** — PCMCIA's hardware standard for peripheral devices for laptop computers. Superseded by the ExpressCard.
- **PCMCIA** — Personal Computer Memory Card International Association. An international standards organization of industry-leading companies for the definition of personal computer peripheral device standards.
- **PDA** — Personal Digital Assistant. A handheld device used for organization, notes, address books, etc.

- **POP** — Post Office Protocol. An Internet protocol for retrieving email from a remote server over a TCP/IP connection.
- **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.
- **Protocol** — A standard that enables connection, communication, and data transfer between computing endpoints.
- **PPP** — Point-to-Point Protocol. A method of connecting a computer to the Internet.
- **PPTP** — Point-to-Point Tunneling Protocol. A method for implementing virtual private networks that does not provide confidentiality or encryption but relies on the tunneling process for security.
- **PRL** — Preferred Roaming List. A list that your wireless phone or device uses to determine which networks to connect with when you are roaming. (Network operator specific)
- **Protocol** — A standard that enables connection, communication, and data transfer between computing endpoints.
- **Proxy** — A firewall mechanism that replaces the IP address of a host on the internal (protected) network with its own IP address for all traffic passing through it.
- **PUK code** (Pin Unlock Key) — A PUK is required when you enter an incorrect PIN 3 times. After entering the wrong PIN 3 times, the SIM card is disabled.
- **RAS** — Remote Access Service. A Windows NT/2000 Server feature that allows remote users access to the network from their Windows laptops or desktops via modem.
- **Rev A** — CDMA EV-DO Rev. A is a leading-edge wireless technology with higher data rates and higher system capacity. It is a fully backward compatible standard and remains interoperable with deployed EV-DO networks and devices around the world. The increased data rates on Rev. A's physical layer enable richer applications and services. For more information, visit www.cdg.org.
- **RFB** — Remote Frame Buffer. A protocol for remote access to graphical user interfaces.
- **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.
- **SIM** — Subscriber Identification Module. Found in GSM network technology, the SIM is a card containing identification information for the subscriber and their account. The SIM card can be moved to different devices.
- **SMS** — Short Message Service. A service for sending short messages of up to 160 (224 in 5-bit mode) characters to mobile devices. SMS is also known as text messaging.
- **SMTP** — Simple Mail Transfer Protocol. An Internet standard for email transmission across IP networks.
- **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.
- **Telnet** — Telecommunication Network. A network protocol used on the Internet or on local area networks.
- **TFTP** — Trivial File Transfer Protocol. A file transfer protocol with a subset of FTP functionality.
- **UA** — User Agent. Any device or software used to access a web page. A user agent might be a web browser, a smart phone, 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).
- **USSD** — Unstructured Supplementary Service Data. A service found in HSPA/GSM networks that allows the user to retrieve information or implement certain types of call services.
- **VNC** — Virtual Network Computing. A graphical desktop sharing system that uses the RFB protocol to remotely control another computer.
- **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.
- **WAN** — Wide Area Network. A public network that extends beyond architectural, geographical, or political boundaries (unlike a LAN, which is usually a private network located within a room, building, or other limited area).
- **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.
- **WEP** — Wired Equivalent Privacy. An IEEE standard security protocol for 802.11 networks. Superseded by WPA and WPA2.
- **Wi-Fi (R)** — Any system that uses the 802.11 standard developed and released in 1997 by the IEEE.

- **Wi-Fi Client** — 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.
- **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.