

Connect Me

3G and Wi-Fi Connection Manager

User Guide



Contents

GETTING STARTED	4
Install the Connect Me Software.....	4
Launch Connect Me	4
To Uninstall Connect Me.....	4
System Requirements.....	5
KNOW YOUR CONNECTION MANAGER	6
Select Connection Interface.....	6
The Main Window: Wi-Fi Version	6
Main Window: 3G Version.....	7
Controls for the Main Window	8
The Main Window: Mini Bar Version	8
The Menu Bar	8
Connections	8
The Options.....	9
Help	9
Self Service	9
The System	10
Automatic vs. Manual Connection	10
ESTABLISHING MOBILE CONNECTIONS.....	11
Manually Connecting to 3G Mobile Networks	11
Locking and Unlocking Your Mobile Device.....	11
Diagnostics: Device Tab	12
Diagnostics: Network Tab.....	13
ESTABLISHING WI-FI CONNECTIONS.....	14
Manually Connecting to a Wi-Fi Network	14
The List of Wi-Fi Networks.....	14
Wi-Fi Network List - Display Options	16
Options for Connecting to a New Network	16
What is a Closed Network?	17
How To Access a Closed Network	17
Wi-Fi Encryption.....	17
Username and Password Logon Window	19
Ad Hoc Connections.....	20
THE WI-FI INFO WINDOW	23
Wi-Fi Info: Device Tab	23
Wi-Fi Info: Network Tab.....	23
TEXT MESSAGING (SMS)	24
Short Message Service.....	24
The Text Messaging Client.....	24
Viewing and Managing Messages	24
Sending Text Messages.....	26
Using the Address Book	27
ON BOARD USAGE METER.....	29
Configuring the on board Usage Meter	29
Usage Meter: 3G & Wi-Fi Tab.....	29
Usage Meter: Advanced Tab	30

VIRTUAL PRIVATE NETWORKS (VPNS).....	32
Supported VPN Clients	32
Configuring a VPN Connection.....	32
Using a Non-Supported VPN Client	33
Automatically Launching a VPN Connection.....	34
CREATING AND MANAGING NETWORK PROFILES.....	36
Creating and Importing Wi-Fi Profiles.....	36
How to Edit a Network Profile	38
How to Remove a Network Profile.....	38
The Network Profiles Window.....	38
Profile Properties: Mobile.....	42
Profile Properties: Wi-Fi	43
Profile Properties: IP Settings	43
Advanced IP Settings.....	44
Advanced IP Settings: Protocols Tab.....	45
Advanced IP Settings: WINS Tab.....	46
PROFILE PROPERTIES: GENERAL.....	47
Proxy Settings	48
Proxy Settings: Advanced	49
CONNECTION MANAGER SETTINGS	50
Accessing the Settings Window	50
Settings: Application.....	50
Settings: Connection Timeout.....	51
Settings: Hardware	52
The Device List	53
Device Properties Window	55
Settings: Sounds.....	56
Settings: Updates	56
Settings: VPN	57
TROUBLESHOOTING	58
By Error Number	58
By Problem Description	68
Accessing the Windows Device Manager.....	71
Correcting Default Connection Settings	72
Querying a Wireless Modem	72
Resolving Application Conflicts	73
Zero Config Wi-Fi	74
Technical Support	75

Getting Started

Install the Connect Me Software

To install Connect Me From a downloaded file

- Download the Connect Me Client from www.telecom.co.nz/connectme
- Navigate to the folder in which the Setup.exe file was saved
- Double click the Setup.exe file
- Follow the on screen instructions

To Install Connect Me From a 3G Mobile Device

Some 3G mobile devices are capable of storing the Connect Me installer in their memory. If you have such a device and Connect Me has been pre-loaded on the device by the manufacturer, the Connect Me installer will be launched the first time you connect the device to your computer. Just follow the instructions on screen to complete the installation.

Launch Connect Me

Once your hardware is installed and ready to connect, double click the Connect Me icon on your desktop.

To Uninstall Connect Me

Windows Vista and Windows 7

- Select Control Panel from the Windows Start menu
- Select Uninstall a Program from the Programs group
- Select Connect Me from the list of applications that appears
- Click Uninstall

Windows XP

- Select Control Panel in the Windows Start menu
- Click Add or Remove Programs
- Select Telecom NZ Connect Me from the list
- Click Remove

System Requirements

	Windows XP	Windows Vista	Windows 7
Processor	300 MHz, 32 bit	1 GHz, 32 or 64 bit	1Ghz, 32 or 64 bit
RAM	256 MB	1 GB	1 GB
Hard Drive Space	100 MB	120 MB	120 MB
Internet Explorer	IE 5.5	IE 7	IE 8
OS Service Pack	Service Pack 3	Service Pack 1 (or above)	-

Additional Requirements:

- Windows Vista and Windows 7 requires a DirectX 9.0 (or better) graphics accelerator
- Internet Connection (if downloading the installer from the Internet)
- CD-ROM (if installing from CD)
- Compatible Wi-Fi device for wireless LAN connections
- Compatible 3G mobile (GSM) device for wireless WAN connections

Know your Connection Manager

Select Connection Interface

Click these tabs to switch between the two versions of the main window:

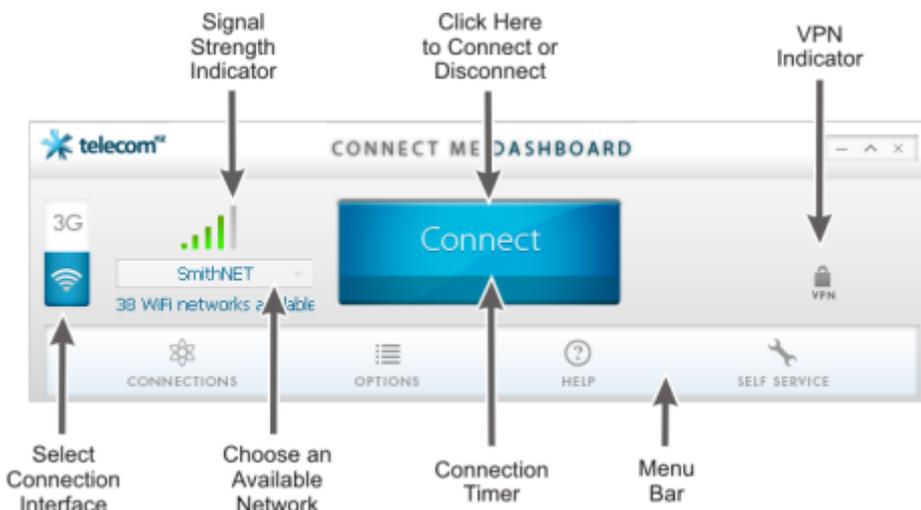


Wi-Fi version



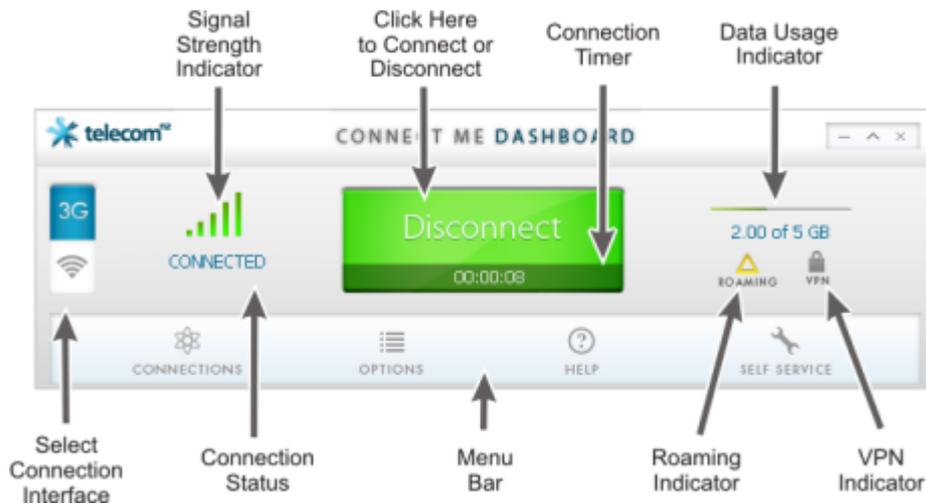
3G version

The Main Window: Wi-Fi Version



- You can do the following here:
- Select different networks with **Choose an Available Network**
- Create and edit network profiles by selecting **Options** then **Profiles**
- Configure various user preferences settings by selecting **Options** and then **Settings**
- Connect/Disconnect from the network
- See how long you have been connected with the Connection Timer (you can hide this on the **Application tab** of the Settings window)
- See if you are connected to a **Virtual Private Network (VPN)** (this might not appear if your VPN client software is not **supported** by the Connect Me software)
- See how strong your signal is with the signal strength indicator

Main Window: 3G Version



This window will display information about the status of your current 3G mobile connection (if any).

You can do the following here:

- Connect Me should automatically select the TelecomNZ network or one of our roaming partner networks. **Connect** to establish a connection to the selected network
- Track your total data usage in **Data Usage Indicator**. The bar is green up to the monthly maximum for your data plan. Usage over your monthly maximum is shown in red. Clicking this indicator opens the Usage Meter.

Note: This indicator does not appear until Usage Meter has been **configured**.

Note: The Connect Me usage meter is a guide only and does not accurately reflect your billed data. Always check the online usage meters at <http://www.telecom.co.nz/homepage>

- Create and edit network profiles by selecting **Options** and then **Profiles**
- Configure various user preference **settings** by selecting **Options** and then **Settings**
- Connect / Disconnect from the 3G mobile network
- See your connection status for currently selected network
- See how long you have been connected with the Connection Timer. When connected to a 3G mobile network, this indicates how long it has been since the connection was established. You can hide this on the **Application tab** of the Settings window
- The **roaming indicator** will appear if the currently-selected 3G mobile network is a roaming network. E.g. you are roaming off the TelecomNZ home network if you connect to this. Consult your contract or <http://www.telecomroaming.co.nz/support/data/> for more information

Controls for the Main Window

The buttons in the upper-right corner of the main window control the appearance and location of the window.

- Reduce the window to an icon on the task bar at the bottom of the screen.
- ^ Display the **mini bar version** of the main window. Click ▾ to return the window to full size.
- × Close the Connect Me application.

The Main Window: Mini Bar Version

This is useful when you want the Connect Me software to take up less space on screen.



The Menu Bar

-  **Connections** (📧 = new messages)
-  **Options**
-  **Help**
-  **Self Service**

Connections

This provides various tools to enhance or provide information on your wireless connections. They include:

-  **Messages.** Click this to view and/or send messages in the **Text Messaging Client**. The number of new messages will appear to the right of this icon.
-  **Mobile Info.** This displays some technical information about the mobile network you are connected to (if any) and your current 3G mobile device.
-  **Wi-Fi Info.** This displays some technical information about the Wi-Fi network you are connected to and your current Wi-Fi device.

-  **User Login.** Opens a window that allows you to enter a standard user name and password combination as a default for certain Wi-Fi connections. See **Username and Password Logon Window** for more information.

To close the Connections Tray, click the **Connections** icon again.

The Options

This contains a number of options for configuring the Connect Me software and your wireless device(s):

-  **Settings.** Allows you to configure a number of personal preference options.
-  **Profiles.** Used to create and edit network profiles and to set their **priority**.
-  **SIM Lock.** Lock and unlock your 3G mobile device. See **Locking and Unlocking Your Mobile Device** for more information.

Help

This includes items which may answer questions or help with troubleshooting problems.

-  **Help.** Opens the help system.
-  **History Log.** Opens the **Advanced Tab** of the Usage Meter. This is a troubleshooting tool that provides details on connections, disconnections and detection of new wireless devices.
-  **Get Diagnostics.** Generate a file containing diagnostics information. If you contact customer support, you may be asked to provide such a file to help troubleshoot any difficulties you may be having.
-  **About.** Contains version information for the Connect Me software.

Self Service

This provides a list options to give you one click access to online Self Service areas such as usage meters and prepaid top ups.

-  **Prepaid Top Up.** To top up prepaid mobile accounts.



Your Telecom. To manage your accounts online. You can:

- View your bills online
- Turn off your paper invoices and statements
- Get details of recent calls you've made
- Check your broadband usage
- Update your account details and email preferences



Usage Meter. To open the online prepaid usage meter

The System

When Connect Me is running, it may place an icon like the examples shown below in the Windows system tray.



The **Wi-Fi interface** is selected.



The **3G interface** is selected.

For either version of the icon, the number of green bars represents the strength of the signal being received from the currently-selected network.

- By clicking on this icon you can open the main window of the Connect Me software, if this is already open, you will move it in front of the other open applications.
- **Note:** *you can also right click and select show to do this.*
- Right click on Help opens the help system
- Right click on Exit you can exit Connect Me

Automatic vs. Manual Connection

By default, Connect Me will automatically select an available network and establish a connection based on the **priorities** specified in the **Network Profiles window**. However, you can manually select a network if you wish. See the following topics for instructions:

- **Manually Connecting to a 3G Mobile Network**
- **Manually Connecting to a Wi-Fi Network**

If you manually connect to a network, it will disable the automatic connection for that technology type (e.g. 3G Mobile or Wi-Fi). If you wish to return to automatic connection mode, restart the Connect Me software.

Establishing Mobile Connections

Manually Connecting to 3G Mobile Networks

Before you begin, you will need:

- A 3G mobile device capable of establishing connections. Windows device drivers for this device must be properly installed according to the manufacturer's instructions
- A valid Pre-paid or Post-Paid account with TelecomNZ.
- A network profile configured to access TelecomNZ (Connect Me creates these automatically when you connect a supported 3G mobile device)

Follow these steps to connect to a 3G mobile network:

- If you have not already done so, connect the device that you wish to use
- Select the **3G** tab in the main window. If your device is properly connected and configured, the Connection Manager will search for an available network and select an appropriate network profile to use for the connection
- When Connect Me is ready, it will display the words 'Ready to connect.' Click **Connect** to establish a connection

Once connected, Connect Me will display a timer indicating the duration of the current connection.

Locking and Unlocking Your Mobile Device

You can lock your 3G mobile device to prevent it from being used by yourself or others. A locked device cannot be used to establish a connection.

Locking the Device

- Select **Options** and then **SIM Lock** in the menu bar
- Enter your current **SIM PIN** in the space provided
- Click **OK** to lock the device

Unlocking the Device

- Select **Options** and then **SIM Lock** in the menu bar
- Enter your current **SIM PIN** in the space provided
- Click **OK** to unlock the device

PUK Codes

Devices sometimes have a limit to the number of incorrect PINs you can enter. This ranges from three to ten possible PIN entry attempts. If you fail to enter a correct PIN within the number of permitted attempts, a window that allows you to enter a PUK Code appears.

Note: Depending on who you ask, PUK stands for either "Personal Unblocking Key" or "PIN Unlock Key." But, both names refer to the same code.

To enter a PUK code and reset your 3G mobile device's PIN:

- If you do not know your device's PUK code, contact technical support to obtain the correct code. The Telecom^{NZ} default PUK code is '1234'
- If it is not already open, open the 'Enter PUK and Change PIN Code' window by selecting **Options** and selecting **SIM Lock** in the menu bar
- Type your PUK in the **Current PUK Code** box
- Enter your new PIN in both the **New PIN Code** and the **Confirm New PIN Code** boxes
- Click **OK**

Important: If you enter the PUK code ten times in a row incorrectly, your SIM will be disabled permanently.

To view information about your 3G mobile device or your current 3G mobile connection:

- Select **Connections** and then **Mobile Info** in the menu bar
- The **Mobile Info** window provides useful information on your computer and your 3G mobile device

The Two Tabs in the Mobile Info window are:

Diagnostics: Device Tab

This tab contains detailed information about your device which is accessed via the driver installed on your computer. If the driver contains no information or information that is incorrect, it will be reflected in the appropriate field.

The information you will find in the **Device Tab** is as follows:

- **OS (SP):** The operating system currently installed on your computer and any service packs (updates) that have been installed for that operating system
- **Port:** The communications (COM) port that your wireless device is currently attached to
- **Modem Manufacturer:** The name of the manufacturer of your wireless device
- **Modem Model:** The model name of your wireless device
- **Hardware ID:** The hardware ID of your wireless device

- **Device Driver:** The version of the driver for your wireless device currently installed on your computer
- **Firmware Version:** The version of your wireless device's onboard operating software
- **Serial Number:** Your wireless device's serial number
- **IMSI#:** A mobile subscriber's SIM is assigned a unique 15 digit IMSI (International Mobile Subscriber Identity) code. This allows any mobile network to know the home country and network of the subscriber
- **IMEI#:** International Mobile Equipment Identifier, a number string uniquely identifying a 3G mobile device
- **Phone Number:** The telephone number of your 3G mobile device
- **Phone Battery Status:** The status of your phone's battery

Diagnostics: Network Tab

The Network tab contains information about the mobile network you are currently connected to (if any).

- **Network Type:** The type of 3G mobile network you are connected to
- **Network Name:** The name of the 3G mobile carrier you are connected to
- **Signal Strength (%):** The strength of the signal being received from this network, as a percentage of a maximum possible signal strength
- **Signal Strength (dBm):** The strength of the signal being received from this network
- **APN Used:** The name of the access point to which you are connected
- **Country:** The country in which the network access point is located
- **Status:** Indicates whether you are currently connected or disconnected
- **Data received during the session:** The amount of data received over this connection since it was established (in bytes)
- **Data sent during the session:** The amount of data sent over this connection since it was established (in bytes)
- **IP Address:** The IP address you are using for this connection

Establishing Wi-Fi Connections

Manually Connecting to a Wi-Fi Network

- Select the Wi-Fi tab in the main window
- If you have not already, connect your Wi-Fi device to your computer. If your device is properly connected and configured, Connect Me will begin searching for an available network. When Connect Me is ready, the button below the signal strength indicator will display the name of the network that has been selected
- Click **Connect** to access the selected network
- To connect to a different network, click the button below the signal strength indicator. Then select the network you want to connect to

Note: To connect to a 'closed' item in the networks list, you must create a profile for that network. See 'How to Access a Closed Network'.

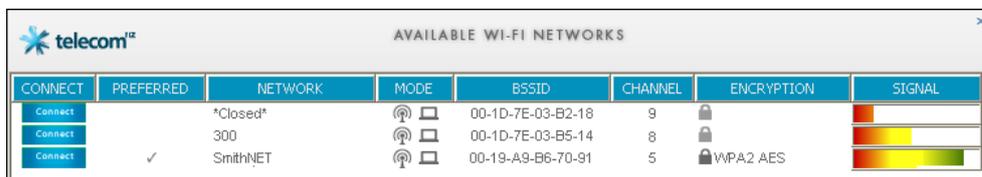
Prompts

Connect Me will attempt to establish a connection to the selected network. You may see either one or both of the following prompts during this process:

- If the network is encrypted, you will be prompted to enter an encryption key. If you know the required encryption key, enter it and click **OK**. If you don't know the key for an encrypted network, you must click **Cancel** and select a different network. See **How to access an encrypted network**
- When connecting to a network for the first time, Connect Me may display the **New Network Options** prompt. Using this dialog box, you can configure Connect Me to automatically connect to a network in the future or to prompt you when that network is available

The List of Wi-Fi Networks

Clicking the button below the signal strength indicator in the Wi-Fi version of the main window opens the Wi-Fi networks list.



CONNECT	PREFERRED	NETWORK	MODE	BSSID	CHANNEL	ENCRYPTION	SIGNAL
Connect		*Closed*	 	00-1D-7E-03-B2-18	9		
Connect		300	 	00-1D-7E-03-B5-14	8		
Connect	✓	SmithNET	 	00-19-A9-B6-70-91	5	 WPA2 AES	

To connect to a network on the list either select the network and then click the **Connect** button or double-click on the network in the list. The information displayed for each network will include some (if not all) of the items shown below. Right-clicking in the window will produce a **menu** that controls which columns are displayed

- **Connect:** This column provides connection/disconnection buttons for each available network
- **Preferred:** A check mark is presented for any Wi-Fi network that is currently listed in the [Network Profiles window](#). This includes network profiles that have been pre-defined by TelecomNZ, Wi-Fi networks for which you have created Network Profiles and Wi-Fi networks that you have already connected to (for which a profile was automatically created)
- **Network:** This is the Network Signal Set Identifier (SSID) - essentially just a name that is broadcast by a Wi-Fi access point to identify the network. If you see a 'closed' item in this column, this indicates the presence of one or more Closed networks. See 'How to Access a Closed Network'
- **Mode:** two possible entries (shown below)

 Indicates this network is in infrastructure mode. You will be connecting to a network through a dedicated wireless access point.

 Indicates this network is in **ad hoc** mode. You will connect directly to another computer through its Wi-Fi device.

Note: You can share your Internet connection by hosting an ad hoc Wi-Fi network. See [Hosting an Ad Hoc Connection](#) for more information.

- **BSSID:** The MAC address of the Access Point's Wireless Network Interface Card
- **Channel:** The channel on which the wireless network is broadcasting
- **AP Vendor:** The manufacturer of the wireless access point
- **Encryption:** Networks that are encrypted will have a dark gray padlock icon. See [How to access an encrypted network](#) for instructions on connecting to encrypted networks. Non-encrypted networks will have a lighter gray padlock and no accompanying text
- **Signal Strength:** A gauge showing the strength of the signal being broadcast from each network. Stronger signals tend to produce more reliable connections
- **Beacon Period:** Wireless access points periodically broadcast a packet called a 'beacon' which helps to synchronize communications with connected systems. This number indicates how often (in milliseconds) the beacon is transmitted
- **Supported Rates:** A list of all the transmission rates supported by this network
- **Time First Seen:** The time of day when Connect Me first detected this network. This value represents the current session only. It will reset when you restart Connect Me

- **Time Last Seen:** The time of day when Connect Me last detected this network

Wi-Fi Network List - Display Options

Right-clicking in the Wi-Fi networks list produces a menu that controls display options for the list. All of the items in the top section of this menu correspond to columns in the list of Wi-Fi networks. Checked and uncheck items to display or hide.

Additional items in the menu:

- **Show Closed Networks:** When checked, Connect Me will indicate that one or more **closed** networks are present by displaying 'closed' in the Wi-Fi networks list. Removing the check from this item will suppress the indication
- **Consolidate Networks:** When two or more hotspots are broadcasting the same network name they are almost certainly accessing the same network, so Connect Me normally only lists the hotspot with the strongest signal for any network. If you would prefer that all hotspots that broadcast the same network name are listed individually, remove the check
- **Reset Columns:** Select this to restore all the check marks in the top section of the menu to their default states
- **Show All Columns:** Select this to check all items in the top section of the menu
- **Hide All Columns:** Select this to uncheck all items in the top section of the menu

Options for Connecting to a New Network

If **Prompt me before saving network settings** is selected in the **Automatic Profile Creation Settings** window, a dialog box will offer four options each time you connect to a new network for the first time. The option selected specifies the type of **profile** that will be created for this network. By creating a profile automatically, Connect Me makes it easier for you to connect to the same network in the future. You must choose one of the following options:

- **Automatically connect to network in future:** The profile created will specify that Connect Me should automatically establish a connection to this network whenever it is detected
Note: When multiple networks configured for auto-connection are detected, Connect Me will choose which network to connect to based on the ranking of profiles in the 'Network Profiles Window'
- **Prompt me before connecting to this network:** The profile created will specify that Connect Me should offer to connect to this network whenever it is detected
- **Save settings for manual connections:** The profile created will save the settings used to connect to this network. This allows Connect Me to

automate the details of establishing a connection to this network. You must still initiate connections to this network manually by selecting the network and then clicking the **Connect** button

- **Do not save settings:** You can connect to the network this time, but no settings will be saved for future connections (no profile will be created)

What is a Closed Network?

Closed networks are private networks that do not choose to broadcast their existence. Connect Me can detect when there are closed networks present simply because it 'sees' unidentified broadcasts in the Wi-Fi frequency band. When this happens, it will display 'closed' in the Wi-Fi networks list.

Note: *Connect Me cannot detect the actual name of or establish a connection to a closed network unless you create a profile for that network. For more information, see **How to create a Wi-Fi Network Profile**.*

How To Access a Closed Network

To access a closed network with Connect Me, you must set up a **Profile** for that network:

- Select **Options** and then **Profiles** in the menu bar
- Select **Add New Profile** from the Settings menu
- Select **Wi-Fi**
- Click **Add**
- Enter the name of the network you want to add in the **SSID** field. The network name is case sensitive and must be entered exactly as provided by the administrator of the closed network you want to connect to
- Check the **This is a non-broadcasted network (closed)** box to identify this as a closed network
- Complete the remaining fields on this page as instructed by the administrator of the closed network
- Click **Next** to continue to the **General page** of the profile wizard. Configure the remaining fields as desired
- Click **Finish**

Wi-Fi Encryption

Introduction to Wi-Fi Encryption

Unlike a wired local network, a wireless network cannot easily be protected from potential intruders by physical barriers such as walls. Since radio

signals travel through physical objects, a potential intruder merely needs to have a look with the right equipment to see the traffic traveling across a wireless network. For this reason, wireless networks often employ encryption to protect their users. To access an encrypted network you will need the encryption key used by that network.

What is an Encryption Key?

An encryption key is a code key used to encrypt data exchanged between an encrypted network and Connect Me. You cannot exchange data with an encrypted network without having the appropriate encryption key.

The key for encrypted networks must be obtained from the administrator of the encrypted Wi-Fi Network you are trying to access.

How to Change an Encryption Key

When a network is added to the list in the **Network Profiles window**, all encryption information is saved with it. Therefore, you will not be asked for encryption information again when connecting. For security purposes, the network administrator may change the encryption key for the network. When this happens, you will need to update the key in the appropriate network profile to match the new key specified by the network administrator. Follow these steps:

- Select **Options** and then **Profiles** in the menu bar
- Select the network for which you wish to edit the encryption keys
- Click **Edit**
- Switch to the **Wi-Fi** tab
- Enter the new encryption key in both the **Network Key** box and the **Confirm Network Key** box
- Click **OK**

Wired Equivalent Privacy (WEP)

WEP was the standard encryption technology used in the early days of Wi-Fi networks. More secure methods, such as WPA have since emerged, but WEP remains an extremely popular choice for encrypted networks. There are two variants of WEP:

- **WEP Open:** By far the most commonly used version of WEP. Networks that use this don't bother to verify that you have the correct **encryption key** before allowing you to connect - if you don't have the connect encryption key, you won't be able to communicate with the network anyway
- **WEP Shared:** Forces you to prove you have the correct encryption key before allowing you to connect, they do this by sending out sample text for Connect Me to encrypt. If the network gets back what it expects, it will allow you to connect. Ironically, this is less secure than WEP Open

because the verification process used gives potential intruders useful information about the contents of the encryption key

Wi-Fi Protected Access (WPA and WPA2)

Wi-Fi Protected Access (WPA) is a key improvement over **WEP** for both businesses and home users. It was developed when an industry trade group known as the Wi-Fi Alliance became concerned that the security in the existing WEP standard was insufficient. They quickly issued an interim standard that would address most of their concerns while they developed a more complete final standard. The interim standard became known as WPA, while the final standard would be termed WPA2. To use WPA, you need a WPA-compliant Wi-Fi device.

What are TKIP and AES?

TKIP and AES are different encryption protocols that can be used with WPA. TKIP was used in the original WPA specification. AES, which is even more secure, was added as an alternate method to later versions of the specification. So, if the network uses WPA but doesn't specify which of these it uses, TKIP is the most likely to be supported by the network.

What Does "PSK" Stand For?

'Pre-Shared Key' - it simply means that the encryption key must be given to you by the administrator of the Wi-Fi network before you attempt to connect so that you are able to enter it when prompted to do so.

How to Access an Encrypted Network

The steps required to connect to an encrypted Wi-Fi network are the same as those required to connect to a non-encrypted Wi-Fi network — until you click **Connect**. When you click the **Connect** button, a dialog box will prompt you to enter a network encryption key. In order to proceed, you must enter the network encryption key obtained from the administrator of the network you are trying to access.

When you are finished, click **Connect** on the prompt dialog to proceed.

Note: *If you create a **profile** for this network containing the appropriate encryption parameters, you will not see this dialog box when you attempt to connect after your initial connection.*

Username and Password Logon Window

Selecting **Connections** and then **User Login** in the menu bar causes the Username and Password Logon window to appear.

If your wireless data provider grants you access to certain pay or subscription Wi-Fi networks, the provider will typically give you a username and password to use when logging into such networks. If you

don't want to enter that username and password each time you connect to such a network, you can specify them in this window.

Note: *The username and password entered here will be used only for pay or subscription Wi-Fi networks that your wireless data provider grants you access to. It will not be used for other networks.*

- Enter your user name in the **Username** box
- Enter your password in the **Password** box
- Enter your password again in the **Confirm Password** box
- Choose the **Save** option that best suits your needs:
- Save Nothing
- Save Username only
- Save Username and Password
- Click **OK** to save your entries and close the window, or click **Cancel** to discard your entries and close the window

Ad Hoc Connections

What is an Ad Hoc Network?

Ordinarily, Wi-Fi access to networks is provided by specialised devices called 'Access Points.' Access points communicate wirelessly with your computer's Wi-Fi device, granting you access to the network they are attached to.

However, end user Wi-Fi devices can also establish connections directly to one another rather than to a network access point. Such connections are called 'ad hoc networks.' Here, one computer becomes an ad hoc host, performing some of the actions that would normally be performed by the access point. Then, another end user device is able to establish a connection to the host computer.

Limitations & Security Issues

There are key limitations and security issues with Wi-Fi ad-hoc mode wireless networking:

- Wi-Fi devices in ad hoc mode (hosting or participating) offer minimal security against unwanted incoming connections. I.E. ad hoc Wi-Fi devices cannot disable SSID broadcasts the way infrastructure mode devices can. Attackers will have little difficulty connecting to your ad hoc device if they get within signal range
- Signal strength indications that are accessible when connected in infrastructure mode are unavailable to you when you are in ad hoc mode. So, you will face some difficulty when you reposition an ad hoc device to achieve a better signal
- The Wi-Fi networking standards (including 802.11g) require only that ad hoc mode communication supports 11 Mbps bandwidth. You should expect that Wi-Fi devices that support 54 Mbps or higher in infrastructure mode will drop back to a maximum of 11 Mbps when

changed to ad hoc mode. Thus ad hoc mode should generally be viewed as 'slower' than infrastructure mode

Hosting an Ad Hoc Connection

Hosting an ad hoc network allows you to share your computer's Internet or other network connection with another computer over Wi-Fi. Establishing such a connection has three steps:

1. Creating an Ad Hoc Wi-Fi Network Profile

- Select **Options** and then **Profiles** in the menu bar
- Select **Add New Profile** from the Settings menu
- Select **Wi-Fi**
- Click **Add**
- In the **SSID** Field, enter the network name (SSID) you want your computer to broadcast
- Check **This is a hosted ad-hoc network (Computer to Computer)**
- Click the **Advanced** button
- Check **Enable Internet Connection Sharing when this network connects**
- Pull down the **Select host connection to share** menu and select the network connection you would like to share over Wi-Fi. If you are currently connected to a network, 'Currently active Internet connection' is listed at the top of this menu
- The remaining options correspond to the potential connections listed in the Network Connections window of Microsoft Windows operating systems. These will be displayed in roughly the following order:
 - Wi-Fi and LAN connections
 - 3G and dialup connections
 - VPN connections
- Click **OK**
- Click **Next**
- Configure the settings on the General page as desired
- Click **Finish**

2. Using an Ad Hoc Profile

Once you have created a network profile to use for hosting an ad hoc connection, the profile will appear in both the **list of Wi-Fi networks** and the **Network Profiles window**. Select this profile in either of these lists and then click the corresponding **Connect** button to broadcast the

availability of the ad hoc network. Connect Me will indicate that it is connecting

3. Establish a Connection to an Ad Hoc Host

Once a host computer is broadcasting its availability for ad hoc Wi-Fi connections, you should be able to establish a connection to it using another computer that supports ad hoc Wi-Fi connections. Follow these instructions to establish a connection to such a host:

- Start the Connect Me software
- Select the Wi-Fi tab
- Click the button below the signal strength indicator
- Click the **Connect** button associated with the ad hoc host you wish to connect to

Note: *Ad hoc hosts display a different icon to Wi-Fi and 3G mobile connections in the Mode column.*

- When the connection has been established, Connect Me will indicate 'Connected'

The Wi-Fi Info Window

Select **Connections** and then **Wi-Fi Info** in the menu bar to open a window with two tabs.

Wi-Fi Info: Device Tab

This tab contains information about the Wi-Fi device you are currently using.

- **Vendor description:** Information about the manufacturer of your Wi-Fi device
- **MAC address:** The hardware address of the device. MAC (Media Access Control) addresses are unique number sequences assigned by the device's manufacturer and usually cannot be altered. These addresses are used for transferring data by hardware-level protocols such as Ethernet and 802.11. Higher level protocols such as the TCP/IP protocol suite used by the Internet have their own addressing schemes, but still rely on the hardware-level protocol for the transfer of data between individual nodes on a network
- **Driver version:** The version of the driver for the device currently installed on your computer
- **Firmware version:** The version of the device's on-board operating software

Wi-Fi Info: Network Tab

This tab displays your computer's current Wi-Fi network configuration and the amount of activity on your Wi-Fi connection.

- **IP address:** The Internet Protocol address your computer is using for the current network Wi-Fi connection. Ordinarily, the address displayed here is assigned only for the duration of the connection. It is most likely not permanently assigned to your computer
- **Gateway:** The address of the device that is responsible for routing all of your network traffic onto the Internet
- **DNS server:** The address of the server your computer is using to translate Internet addresses from text to numeric format and back. For example, your browser might use the DNS server to convert google.com to 66.102.7.147
- **DHCP server:** The address of the server that assigned your computer's network configuration for the current wireless connection
- **WINS server:** The address of the server (if any) that your computer is using to find the names of computers on a Windows network
- **Activity:** Displays the number of packets of data that your computer has sent and received over the Wi-Fi connection since it was established

Text Messaging (SMS)

Short Message Service

Connect Me makes SMS simple by allowing the user to send and receive messages from a familiar messaging client.

The Text Messaging Client

You can send and receive texts through Connect Me like you can on your phone. In fact, Connect Me integrates with the existing Text Messaging application on your phone (if using a phone as your modem).

To view text messages, select **Connections**, then **Messages** in the menu bar.

You will then be presented with a message viewing and composing application that should feel familiar to anyone accustomed to using popular e-mail software packages.

Viewing and Managing Messages

Receiving Text Messages

When you receive an e-mail or a text message, an envelope-shaped indicator will appear next to the **Connections** icon in the menu bar. The number next to the envelope indicates the number of new messages.

Once the text messaging window opens, a list of your messages will be displayed in the right-hand pane. Each message will be accompanied by one of the following icons:

-  An unread SMS message.
-  An SMS message that you have already read.
-  An unread e-mail message.
-  An e-mail message that you have already read.

Double-click on any message listed to view the complete message.

Updating Your Inbox

If your 3G mobile device is connected to your computer, Connect Me will automatically retrieve new messages from the device when launched. You can also update the contents of your Inbox with either of the following icons:



Send/Receive. Connect Me will transmit any unsent messages in your Outbox and query your wireless device for any new messages received. If new messages are present, they will be added to your Inbox.



Refresh. Connect Me will delete all messages in your Inbox and then copy all messages on your wireless device into the Inbox. Note that messages that are in your Inbox, but not also on your wireless device will be lost.

Using Text Messaging With Tethered Mobile Handsets

Connect Me can connect to phone handsets over a serial, USB, Bluetooth or IrDA connection. Connect Me will assume that these wireless devices are your primary viewing device for text messages. Therefore, it will not delete any message from the device just because you happen to read it in Connect Me's text messaging interface. However, when you delete a message in the text messaging interface, it will also be deleted from the handset.

If you use your handset to send and receive text messages when it is not attached to Connect Me, Connect Me's text messaging inbox may change when you reattach the handset.

Certain handsets are not able to send text messages during an active data connection. If a device does not support sending a text message while using an active data connection, the message will be queued for delivery as soon as the active data connection is released. This is typically when the user selects the **Disconnect** button.

Note: *Although Connect Me can communicate with a handset over a Bluetooth connection, it cannot perform Bluetooth pairing automatically (you will have to manually pair the computer and the handset).*

Managing Text Messages

The text messaging client window provides a number of management functions that allow you to save and organize your incoming and outgoing messages including:



Click this button or select **Folders > New Folder** from the File menu to create a new folder in which to store messages.



Click this button or select **Folders > Delete Folder** from the File menu to delete a folder you have created (and all the messages it contains).



Click this button or select **Move to Folder** from the Edit menu to move the selected message to another folder. Note that moving a message from the Inbox to another folder will not delete the message from your wireless device. Therefore, the message may re-appear in your Inbox if you re-import

messages from the device.



Click this button or select **Copy to Folder** from the Edit menu to place a copy of the selected message in another folder.



Click this button or select **Delete Message** from the Action menu to delete the selected message. Note that deleting a message from the Inbox will also delete it from your wireless device. (If your wireless device is not currently connected to your computer, the message will not be deleted from the device until the device is reconnected.)



Click this button or select **Load** from the File menu to return all folders (except the Inbox) to their state at the time of the last save operation. This is useful, for example, if you accidentally delete messages that you wanted to keep.



Click this button or select **Save** from the File menu to save the current state of all folders (except the Inbox). A Save operation is automatically performed whenever you close the text messaging client window.

Exporting Messages to a File

The content of your messages can be exported to a number of text and graphic file formats. Follow these steps:

- In the text messaging client window, select the message or messages you want to export. You can select multiple messages by holding down the Control key and clicking on each desired message or select a range of messages by clicking on one end of the range and holding down the Shift key while clicking on the other end
- Select **Import and Export** from the File menu
- Select **Export to File**
- Click **Next**
- Select the file format to which you wish to export the selected messages
- Click **Finish**

Sending Text Messages

Before attempting to send or receive text messages, make sure your 3G mobile device is properly attached to your computer and registered with the 3G mobile network (Connect Me will indicate **Ready** or **Connected**).

Note: *Connect Me can send text messages when the application is in Ready to Connect mode or when you are actively connected. Some networks, however, may not support sending and receiving text messages while you are actively connected.*

To send a text message, do the following:

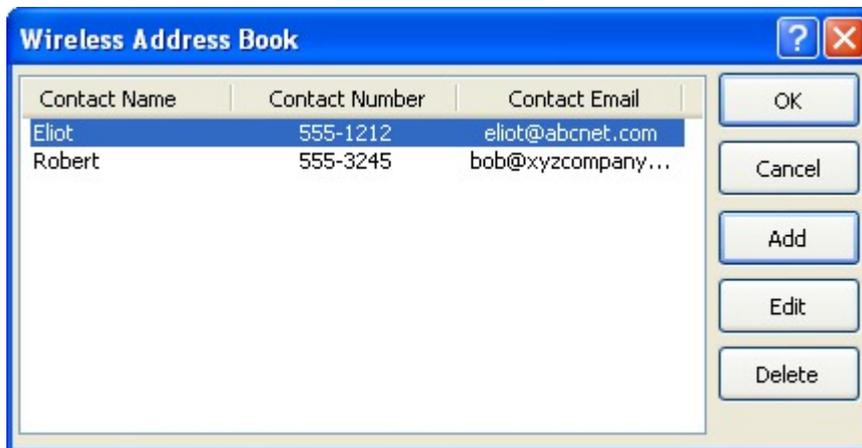
- Click **New** in the text messaging window
- Add the mobile number of the person you wish to send a message to in the **To** field
- Type the message you wish to send
- Click **Send**

Using the Address Book

Connect Me includes an Address Book feature which can be used to manage phone numbers and addresses. You can open the address book either by clicking the **To...** button in the New Message window or by clicking on the icon below in the main text messaging interface:



The address book appears as shown below.



From here, you can do the following:

- Add a new address book entry by clicking the **Add** button
- Select an entry you want to edit and then click the **Edit** button
- Select an entry you want to delete and then click the **Delete** button
- If you opened the address book from the New Message window, selecting an address book entry and then clicking **OK** will copy the entries phone number to the **To** field in the new message window

Note: *You can import address book entries stored on your mobile phone.*

Accessing Your Device's Phone Book

You can import your 3G mobile device's phonebook entries into Connect Me and export the Connect Me address book to your wireless device.

Importing Phonebook Entries

To import phonebook entries from your wireless device, click this icon:



The address book entries from the handset will be added to Connect Me's address book. If an address is already in Connect Me's address book the imported entry will replace the existing entry.

Exporting Address Book Entries

To export entries from Connect Me to your 3G mobile device, click this icon:



Important! *This will replace the entire phonebook on your 3G mobile device. Anything in the device's phonebook prior to this action will be deleted.*

Importing and Exporting Your Address Book

Connect Me can exchange address book information with a variety of sources including the phonebook on your wireless device and Personal Information Managers (PIMs) such as Microsoft Outlook and Lotus Notes.

Exchanging address book information with a PIM requires running the Import and Export Wizard:

- From the text messaging client window, select **Import and Export** from the File menu
- Select **Import from PIMs** or **Export to PIMs** as desired

Note: *the third option, 'Export to File', exports messages rather than the address book. See **Exporting Messages to a File** for more information.*

- Click **Next**
- Select the software package you want to exchange address book information with
- Click **Finish**

On Board Usage Meter

Displays Connect Me's approximate usage of your 3G mobile data plan. If desired, it can also monitor your total Wi-Fi usage. This should help you monitor roughly how much of your monthly data allotment has been used at any point in a billing period.

To access this window: Select **Connections** and then **Mobile Usage** in the menu bar

Note: *This meter should be used as a guide only and does not accurately reflect your billed data, always check the online usage by using the **Self Service** buttons that direct you to the meters on <http://www.telecom.co.nz>*

Important! *Usage Meter tracks only the portion of your data plan that is consumed by connections established with Connect Me. The totals displayed here will not include data usage that occurs when you connect via other applications.*

To get started, you need to configure the Usage Meter in order to tell it about your plan maximum(s) and your monthly billing date.

Configuring the on board Usage Meter

In order for Usage Meter to report your usage, you must first tell it a little bit about your wireless plan(s):

- Open Usage Meter. Select **Connections** and then **Mobile Usage** in the menu bar
- Select your **Billing period start date**. This is the day of the month on which each billing period begins. You can find this on the monthly bill, online in Your Telecom or in the online Pre-paid usage meter <http://www.telecom.co.nz/mbbmeter>
- Using the **Select Your Plan Limit** menu, specify the monthly maximum data usage allowed by your 3G mobile data plan
- If your wireless data plan includes limits for Wi-Fi usage, select the **Wi-Fi** tab and repeat steps 2 and 3, this time include information about your Wi-Fi plan limits

Usage Meter: 3G & Wi-Fi Tab

These tabs of the Usage Meter show your 3G mobile and Wi-Fi data usage respectively.

Current Usage

The Current Usage section displays a graph of your overall 3G mobile data usage in the current billing period. The red line across the graph indicates the current monthly maximum specified in the **Select Your Plan Limit** menu on the right. Usage below this limit is displayed in green. Usage beyond this limit is displayed in red.

Other items in this section include the following:

- **Show usage for billing period:** Once you have selected the start date for each monthly billing cycle (below), you can use this field to examine data usage for past billing periods. Select the billing period you want to view here. The relevant information will be displayed in the graph to the left
- **Billing period start date:** The day of the month on which each billing period begins. You can usually find this on the monthly statement, online in Your Telecom or in the online Pre-paid usage meter <http://www.telecom.co.nz/mbbmeter>
- **Select Your Plan Limit:** Specify the monthly maximum 3G mobile or Wi-Fi data usage allowed by your data plan
- **Details:** Display the Advanced tab of the Usage Meter with detailed, technical information about various Connect Me events (connections, disconnections, etc)

Cumulative Usage

The Cumulative Usage section displays a graph of your usage, separated into individual sessions. One bar will be displayed for each session. Items on this page include the following:

- **Total Sessions:** The number of sessions displayed in the graph
- **Total Time Connected:** The total combined connection time for all sessions displayed
- **Reset Counter:** Clears the display and resets the number of sessions to zero. This does not alter your overall usage, it just clears this cumulative usage graph so that you may more clearly examine the data for new sessions
- **Details:** Display the Advanced tab of the Usage Meter with detailed technical information about various Connect Me events (connections, disconnections, etc)

Last 12 Months

This displays a large graph of your usage over the last twelve months. There are no other items on the page.

Usage Meter: Advanced Tab

The Advanced tab of the Usage Meter is a troubleshooting tool that lists every Connect Me event (connections, disconnections, detections of new wireless devices, etc.)

- Double-click on any item in the list to see more information about that event
- Use the options in the **Filter by** box to limit the events displayed to a particular date range, connection technology or event type

- Check your total combined usage for all events currently displayed by viewing the statistics at the bottom of the window
- Delete the record of the events displayed in this window by clicking the **Clear Event Log** button

Virtual Private Networks (VPNs)

Virtual Private Networks (VPNs) are private networks that can be accessed over a public backbone network (like the Internet) without compromising their privacy. Typically, they maintain their privacy by forming secure (encrypted) 'tunnels' directly to the users who access them. For example, a company might set up a VPN for its employees to access the corporate network securely when they are away from the office.

The software responsible for forming the tunnel with the private network is called a VPN client. Because the VPN client and the private network exchange data in an encrypted format, no one on the public network over which this information passes can access it.

Supported VPN Clients

Connect Me currently supports the following VPN clients:

- Microsoft VPN Client
- Cisco VPN Client

Other VPN clients can be launched by Connect Me, but non-supported client software must be configured manually and its usage has some limitations. See [Using a Non-Supported Client](#) for more information.

Configuring a VPN Connection

The instructions below should be used for VPN client software that is supported by Connect Me.

- Consult the administrator of the VPN you wish to access. They will provide you with VPN client software and instructions for establishing VPN connections using that software
- If the VPN client software is not already installed on your system, install it now. (Microsoft's VPN client is pre-installed on most versions of Windows)
- Open the Connect Me application
- Open the Settings window (Select **Options** and then **Settings** in the menu bar)
- Select the **VPN** tab
- Select **Use existing VPN profile**. Then, specify the client software and the login profile that you want to use
- Click **OK**

Once VPN settings have been configured, you can configure specific network profiles to **automatically start a VPN session** upon connection.

Using a Non-Supported VPN Client

Connect Me can launch a VPN client that it doesn't support. However, its ability to work with these clients is very limited. Make sure you thoroughly read these procedures and the usage notes that follow before you attempt to use a non-supported VPN client with Connect Me.

Installing and Configuring the VPN Client Software

The first task in utilising unsupported VPN client software is to make sure that the VPN client is fully installed and configured to establish a connection to your VPN. All configuration of the VPN client software must be done from within the VPN client software itself. Connect Me cannot configure unsupported VPN clients. Work with the administrator of your VPN to achieve the following:

- If the VPN client software is not already installed on your system, install it now
- Configure all the necessary profiles and/or other settings necessary for logging into your VPN
- Determine the exact command line necessary to launch your VPN software and establish a connection to your VPN from the Windows command prompt. This must include any additional command line parameters that are necessary to successfully establish a connection

Important! *If you cannot establish a VPN connection from the Windows command prompt, Connect Me will not be able to establish a connection using your VPN client software. Connect Me simply invokes the command line given to it. It has no other interaction with unsupported VPN clients.*

Configuring Connect Me

When you can launch your VPN client and establish a VPN connection from the Windows command line, you are ready to configure Connect Me. Follow these steps:

- Open the Connect Me application
- Open the Settings window (Select **Options** then **Settings** in the menu bar)
- Select the **VPN** tab
- Select **Use third party VPN client**
- Click **Browse**
- Select the program file to be launched
- Click **Open**. The path of the selected file should now appear in the **Command line** field
- If the VPN client software requires that additional parameters be included after the program file name on the command line, enter these in the **Parameters** field
- Click **OK**

Once VPN settings have been configured, you can configure specific network profiles to **automatically start a VPN session** upon connection.

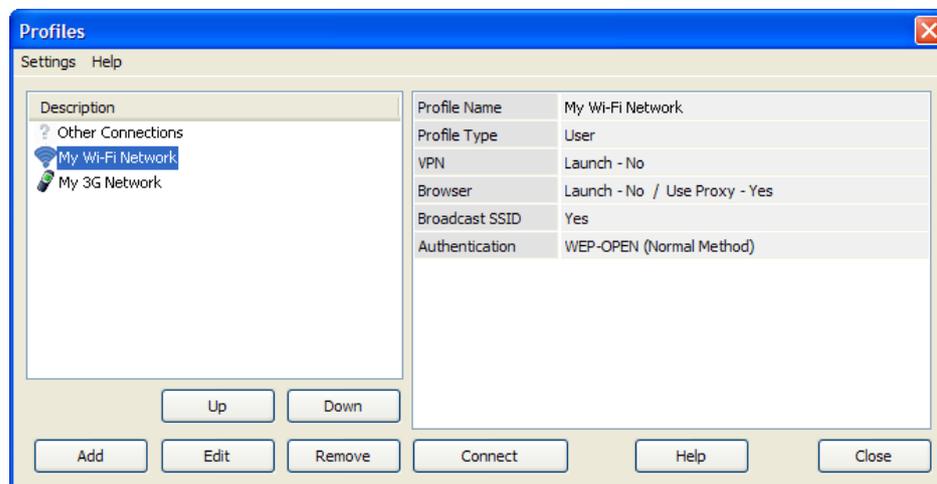
Usage Notes

- Depending on which VPN client you are using, the VPN client may establish a connection automatically or require additional input (password or other credentials) from the user when launched
- Connect Me has no way of determining the status of VPN connections established by unsupported VPN clients. Therefore, the VPN indicator in the main window will not update correctly when used with an unsupported VPN client
- Be sure to shut down the VPN client software properly (according to the manufacturer's instructions) when you are finished with a VPN session. If the VPN client is not shut down properly, Connect Me may have trouble launching the software the next time it attempts to do so
- You cannot shut down the VPN client or its VPN connection from within Connect Me. You must work directly with the VPN client software

Automatically Launching a VPN Connection

You can configure any network profile to automatically connect to a Virtual Private Network whenever you connect using that profile:

- If you have not already done so, configure the connection settings for the VPN you wish to connect to
- Open the Network Profiles window. (Select **Options** then **Profiles**)



- In the left pane, select the profile for which you want to automate VPN connection
- Click **Edit**
- If the General tab is not already selected, select it now
- Check the **Auto Launch** box in the VPN section
- Click **OK**

- Repeat steps 3 through 7 for any additional profiles that you want to auto-launch your VPN connection with

Note: *If you want your VPN to be launched automatically with all (or most) of the new profiles you create, consider checking the **Autolaunch** box on the VPN tab of the **Settings Window**. This configures the default behaviour of all newly created profiles.*

Creating and Managing Network Profiles

A network profile is a saved configuration for connecting to a particular network. Some profiles may have been pre-defined by TelecomNZ. Additional network profiles for other types of connections can be created in the **Network Profiles window**.

Creating Network Profiles has the following advantages:

- You can configure the client to automatically connect to a Network Profile whenever that network is available
- If the last network you connected to is not available at a particular location, the Connect Me will select a network from the list of network profiles in the main window (if one is available). This allows the same easy, one click connection to an alternate network
- You can automate steps in the connection process like entering an encryption key or logging into a VPN so that you don't have to perform these actions each time you connect
- Moreover, you must have a profile for the following:
- You cannot connect to a closed Wi-Fi network unless you create a 'closed network' Network Profile
- You must have a network profile for each 3G mobile network that you wish to connect to. Often the Connection Manager will automatically create a profile when you connect a supported 3G mobile device

Creating and Importing Wi-Fi Profiles

Creating a Profile for a Wi-Fi Network

Follow these steps to create a Wi-Fi Network Profile.

- Select **Options** and then **Profiles** in the menu bar
- Select **Add New Profile** from the Settings menu
- Select **Wi-Fi**
- Click **Add**
- In the **SSID** field, enter the broadcast name of the network profile. Note that the name entered here must exactly match the SSID (Service Set Identifier) used by the network
- If you are configuring a profile for a **closed network**, check **This is a non-broadcast network**
- If the network whose profile you are configuring does not use **WEP** or **WPA** encryption, the **Enable data encryption box** should remain unchecked and no further security configuration is necessary

- If the network does use WEP or WPA encryption, check the **Enable data encryption** box and configure the Wi-Fi data encryption settings (see **Enabling Wi-Fi Data Encryption**)
- Click **Next**
- Configure the settings on the General page and then click **Finish**

Enabling Wi-Fi Data Encryption

- Check the **Enable data encryption** box
- Select the **Authentication method** used by this network. Supported authentication methods include:
 - **None:** Select if the network is unencrypted
 - **WEP-Open (Normal Method):** This is the standard WEP encryption method
 - **WEP-Shared:** Use this only if told by your network administrator
 - **WPA-PSK:** You will need to enter your pre-shared key in the 'Network key' fields provided
 - **WPA2-PSK:** You will need to enter your pre-shared key in the 'Network key' fields provided

Note: *The WPA methods will only be listed here if your current Wi-Fi adapter supports WPA security.*

- Enter the encryption key for this network in **Network key** and **Confirm network key** fields

Automatic Profile Creation Settings

If you wish, Connect Me can automatically create **network profiles** for each new Wi-Fi network you successfully connect to. The setting that controls this can be found by selecting **Wi-Fi Network Options** from the Settings menu in the **Network Profiles window**. The following options are available:

Automatically save all Networks that I connect to

Connect Me will create a new profile for every new Wi-Fi network you successfully connect to.

Prompt me before saving Network Settings

Connect Me will ask you if you want to create a new profile each time you successfully connect to a new network.

Allow manual input of network settings only

Connect Me will not automatically create a network profile.

Importing Wi-Fi Profiles From the Operating System

If you have established connections using the Wi-Fi Management tools built into the Windows operating system, Windows has probably created

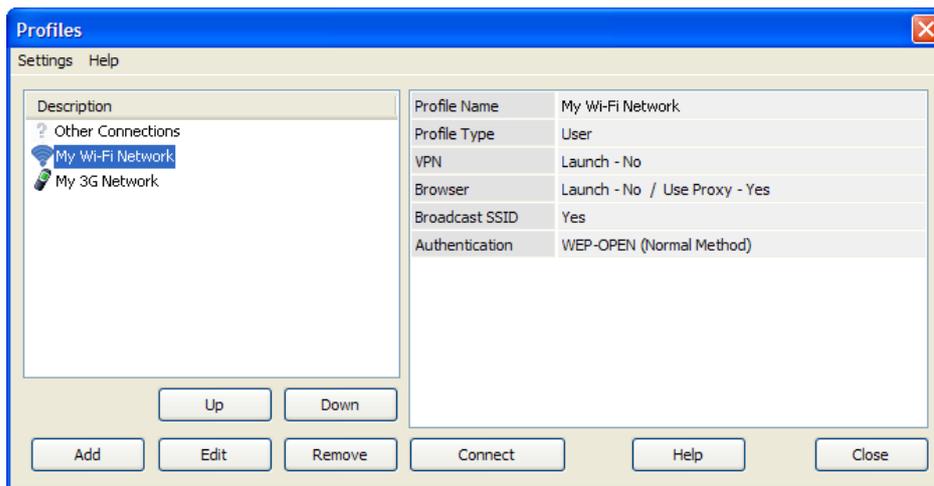
profiles for the Wi-Fi networks you have connected to. You can import those profiles into Connect Me by doing the following:

- Select **Options** then **Profiles** in the menu bar
- Select **Import Windows Wi-Fi Profiles** from the Settings menu

How to Edit a Network Profile

Follow these steps to edit an existing network Profile:

- Select **Options** then **Profiles** in the menu bar



- In the left pane, select the network you wish to edit
- Click the **Edit** button

Note: If the profile you are editing was created for you by Telecom^{NZ}, you may not be allowed to edit some of its settings. If this is the case, certain tabs and/or settings may not be present.

- Make the desired changes
- Click **OK**

How to Remove a Network Profile

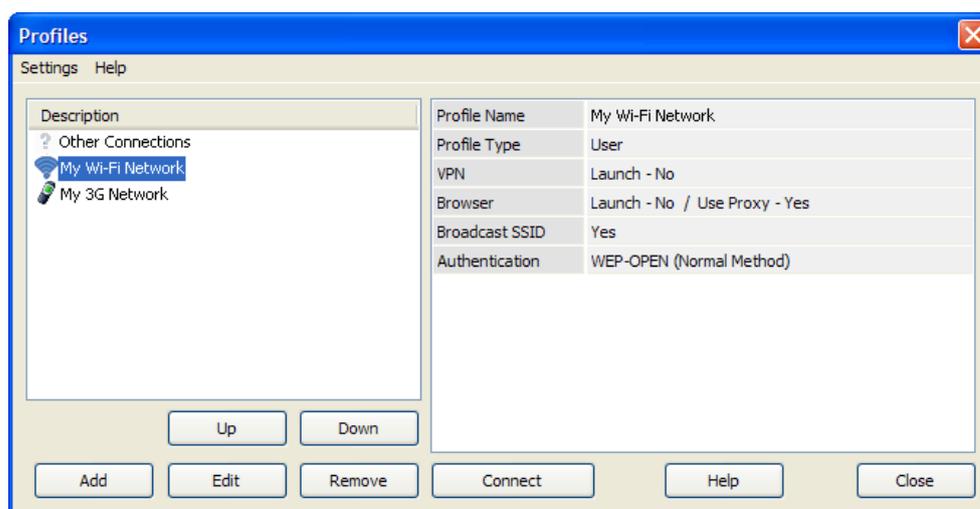
Follow these steps to remove a network from the Network Profiles window:

- Select **Options** then **Profiles** in the menu bar
- Select the network that you want to remove from the list in the left pane of the window
- Click **Remove**
- Click **Close**

The Network Profiles Window

This window can be used to add Network Profiles and to edit existing Network Profile settings. It can be reached by selecting **Options** then **Profiles** in the menu bar.

Click on a portion of the screen shot below for more information on a particular item.



Profile Priorities

In the **Network Profiles Window**, profiles are listed in order of priority. When selecting a network to connect to, Connect Me will go down the list from top to bottom, selecting the first network profile for which all of the following are true:

- The network described by the profile is available
- You have a device that is ready and capable of connecting to the network connected to your computer
- The **Connection Options** field on the **General tab** in the profile's configuration is set to either 'Automatic' or 'Prompt'
- The profile is not 'Other Connections'
- Profile priority also determines when Connect Me will automatically switch from one network to another. If you are connected to one network and a higher priority network becomes available, Connect Me will switch to the higher priority network

Changing Profile Priority

To change the priority of a specific profile, select the profile whose priority you would like to change. Then, click the **Up** or **Down** button to move the profile up or down the list.

Other Connections

Unlike the rest of the items in the network profiles list, 'Other Connections' is not a network profile. It is simply a placeholder for all network connections of types that are not managed by the Connect Me software. The placement of this item in the list determines how high priority these 'other' connections should be considered. If 'Other Connections' appears higher in the list than your current connection and you connect a network of 'other' type to your computer, Connect Me will automatically shut down its current (lower priority) connection.

For example, if you had a local network connection of a type that is not managed by Connect Me and you wanted Connect Me to shut down any wireless connections it manages whenever you connected to your local network, you would simply move 'Other Connections' above all your wireless network profiles in the list. If, on the other hand, you did not want Connect Me to disconnect in this situation, you could leave it at the bottom of the list.

Note: you can specify which types of networks are included in the 'Other Connections' group in the Hardware tab of *the Settings window*.

Profile Icons

Each profile listed in the **Network Profiles window** will have an icon next to the name. This icon indicates the technology that this profile uses to establish connections.



3G mobile



Wi-Fi



Other - this is a placeholder for types of networks not managed by Connect Me. See **Profile Priorities** for more information

Profile List

This is the list of all the Network Profiles you have defined so far. Also listed here are any Network Profiles that have been pre-configured by TelecomNZ and any profiles that were automatically added when you first connected to a new network.

A profile's position in the list indicates its **priority**.

Profile Rank Buttons

Use these buttons to adjust the ranking of the network selected in the list above. Higher ranked networks (those that appear higher in the list) will be preferred above other networks in the list.

Connect Button

Connect to the currently selected Network Profile.

Profile Add Button

Add a new Network Profile to the list.

Profile Remove Button

To remove a profile from the list, select it in the list above and then click this button.

Note: You cannot remove profiles that have been pre-configured by TelecomNZ

Profile Edit Button

To modify a Network Profile entry, select the Network Profile in the list above and then click this button.

Network Profile Information

This box displays a quick summary of the information in the selected profile.

Network Profile Information: Field Definitions

The fields displayed in the network profiles window may include the following:

Profile Name

This is the name of the Network Profile. If you have not named a Wi-Fi profile, this will be the SSID of the network.

Profile Type

This will show if the Profile was created by TelecomNZ (indicated by the word 'Carrier') or by you (indicated by 'User').

VPN

This indicates if a VPN connection is set to auto-launch when you establish a connection to this network.

Browser

This shows if you have your browser set to auto-launch a page and if you have proxy settings for this profile.

IP Address (3G Profiles Only)

This field indicates whether an IP address will be obtained automatically (using DHCP) or a fixed IP address has been specified.

DNS Server (3G Profiles Only)

This field indicates whether a DNS server address will be obtained automatically (using DHCP) or a fixed DNS server address has been specified.

Broadcast SSID (Wi-Fi Profiles Only)

This indicates whether this Wi-Fi network broadcasts its SSID. Networks that do not broadcast their SSID are called **Closed Networks**.

Authentication (Wi-Fi Profiles Only)

This indicates the type of WEP or WPA authentication being used by a Wi-Fi network.

Profile Properties: Mobile

This tab contains the 3G mobile - specific settings for **Network Profiles**.

Service

The name of the network for which you are creating the profile. If this is a custom profile, you can specify the network name, otherwise the network name will have been entered for you (and will not be editable).

Service Type

Select the type of service provided by this network. The options include 'Packet' for packet data (EDGE/GPRS type) connections and 'Circuit' for circuit-switched data (GSM/CSD type) connections. Note, if you have selected a network that only provides one type of service, this menu will only include the type that is provided by the selected network.

Options include:

Dialled Number

Is the telephone number that your wireless device must dial in order to connect to the network. In most cases, the dialled number for the selected network will have been pre-entered for you (and will not be editable). If no dialled number has been entered, you must enter the appropriate number here. If you do not know the appropriate information for this network, contact TelecomNZ.

Access Point Name

The name of the wireless access point with which your 3G mobile device communicates when connected to this network. In most cases, the access point name for the selected network will have been pre-entered for you (and will not be editable). If no access point name has been entered, you must enter the appropriate number here. If you do not know the appropriate information for this network, contact TelecomNZ.

User Info

Your username and password for the network.

Profile Properties: Wi-Fi

This window contains the security settings for Wi-Fi **Network Profiles**. Follow these steps to configure Wi-Fi network security.

- In the **SSID** field, enter the broadcast name of the network profile. Note that the name entered here must match the SSID (Service Set Identifier) used by the network exactly
- If the network you are configuring is a closed network, check **This is a non-broadcast network**
- Ordinarily, **This is a hosted ad hoc network (Computer to Computer)** should remain unchecked
- If you want to use this profile to host an **ad hoc** network connection, you would check this box and then click **Advanced** to configure additional properties related to hosting ad hoc Wi-Fi connections
- If the network whose profile you are configuring does not use **WEP** or **WPA** encryption, the **Enable data encryption box** should remain unchecked and no further security configuration is necessary
- If the network does use WEP or WPA encryption, check the **Enable data encryption** box and configure the Wi-Fi data encryption settings

Profile Properties: IP Settings

The IP Settings page allows you to configure the Internet Protocol (IP) address to be used with this Profile. You will not need to alter these values unless specifically instructed by your administrator.

Profile IP Address

The top group of settings specify the IP address that your system will use when connected to this network. The default selection, **Obtain IP address automatically**, instructs Connect Me to ask the network to assign it an appropriate address each time it connects. This is the correct setting for most network profiles.

If the network does not support automatic address assignment, you can enter appropriate values manually by clicking **Use the following IP address**. Contact the administrator of the network whose profile you are configuring to obtain appropriate values for these fields.

Profile DNS server

This lower group of settings specifies the address of the name server that your system should use to translate names (e.g. "smithmicro.com") to numerical addresses when connected to this network. The default selection, **Obtain DNS server address automatically**, instructs Connect Me to ask the network to provide the address of a name server each time it connects. This is the correct setting for most network profiles.

If the network does not support automatic DNS server assignment, you can enter appropriate values manually by clicking **Use the following DNS**

server address. Contact the administrator of the network whose profile you are configuring to obtain appropriate values for these fields.

Alternately, click the **Advanced** button to configure **detailed settings** for DNS and WINS servers.

Advanced IP Settings

The Advanced IP Settings window appears when you click the **Advanced** button on the **IP Settings** page of the network profile wizard. This window allows you to configure advanced settings pertaining to naming services and protocols to be used with a particular network profile. There are three tabs in this interface:

Advanced IP Settings: DNS Tab

This window allows you to configure the advanced settings pertaining to DNS server use.

DNS server addresses, in order of use

This is a list of DNS servers that may be used. The first listed will be tried first. The second server listed will be used if the first is not available, and so on. To add a server to the list, click the **Add** button and then enter the IP address of the desired server. If you wish to change the order in which servers are listed, use the arrows on the right.

Append primary and connection-specific DNS suffixes

Selecting this option specifies that when attempting to resolve an unqualified DNS name, your computer will send two different name resolution queries:

The first query it sends is based on the domain portion of your computer's name (which can be found by clicking on the **System** icon in the Control Panel). So, if the computer is looking to resolve the name "pc21" and the domain portion of your computer's name was "mycompany.com" the first query sent would be for "pc21.mycompany.com".

The second query sent is based on the DNS suffix entered in **DNS suffix for this connection** (below). So, if you entered "sales.mycompany.com" in that space, your computer would also attempt to resolve "pc21.sales.mycompany.com". This query is only sent if a DNS suffix is entered in the space provided.

The local setting is used only if the associated Group Policy is disabled or unspecified.

Append parent suffixes of the primary DNS

Checking this box specifies that your computer should also send queries based on the parent domains in your computer's name (up to the second level domain). For example, if your computer wants to resolve the name

"pc21" and its own name includes the domain "us.sales.mycompany.com", it would query for "pc21.mycompany.com" and "pc21.sales.mycompany.com" in addition to the standard query for "pc21.us.sales.mycompany.com".

Append these DNS suffixes

Selecting this option specifies that when attempting to resolve unqualified DNS names, your computer will formulate a query based on each of the domains listed below. For example, if your computer wants to resolve the name "pc21" and the domains "sales.mycompany.com" and "mycompany.com" appear in the list, your computer will query for "pc21.sales.mycompany.com" and "pc21.mycompany.com".

The local setting is used only if the associated Group Policy is disabled or unspecified.

DNS suffix for this connection

If you wish to specify a DNS suffix for this connection, enter it here. If you enter a DNS suffix here, it will override any suffix assigned dynamically by a DHCP server. The local setting is used only if the associated group policy is disabled or ignored.

Register this connection's addresses in DNS

Checking this box specifies that this computer should attempt to dynamically register this connection's IP address (through DNS) using the full computer name specified on the Computer Name tab of the System applet Control Panel. The local setting is used only if the group policy is disabled or unspecified.

Use this connection's DNS suffix in DNS Registration

Specifies whether DNS dynamic update is used to register the IP addresses and the connection-specific domain name of this connection. The connection-specific domain name of this connection is the concatenation of the computer name (which is the first label of the full computer name) and the DNS suffix of this connection. The full computer name is specified on the Computer Name tab (available in System in Control Panel). If the 'Register this connection's addresses in DNS' box is checked, this registration is in addition to the DNS registration of the full computer name. The local setting is used only if the associated group policy is disabled or ignored.

Advanced IP Settings: Protocols Tab

The Protocols tab of the **Advanced IP Settings** window lists additional protocols that may be used with this connection. Check the protocols that you wish to use.

Advanced IP Settings: WINS Tab

The list of WINS servers on the WINS tab will be used to resolve NetBIOS names. To add a server to the list, click **Add** and then enter the IP address of the desired server.

Profile Properties: General

This tab contains settings that apply to all types of **Network Profiles**. Some of these options may not be available if you are configuring a profile created by TelecomNZ.

Profile Name

Enter a name for this network profile. This is how it will be displayed in the Network Profiles window.

Connection Options

This setting controls what Connect Me will do when it detects the network you are configuring. There are three options:

- Select **Automatic** if you want the Connect Me to automatically connect to this network whenever it is detected
- Select **Prompt me** if you want the Connect Me to ask you whether to connect to this network each time the network is detected
- Select **Manual** if you only want to connect to this network manually

VPN Auto Launch

Check this box if you would like to automatically launch your VPN client software when you establish a connection to this network.

Enable Application Launcher

If this box is checked, the Connect Me software will launch the applications displayed on the **App Launcher Tray** whenever it establishes a connection to the network whose profile you are configuring.

If this box is not checked, the applications in the App Launcher Tray will not be launched.

Disable IE's Manual Proxy Settings...

If you normally connect to the Internet through a proxy server (this is common on corporate LANs), you may experience difficulty connecting to the Internet with Internet Explorer when you are travelling. This is because Internet Explorer is trying to connect through a proxy server that is on your home network rather than on the network to which you are connected.

If this is the case, you may wish to disable Internet Explorer's proxy settings while you are connected to other networks. Check this box to disable proxy settings while you are connected using this profile.

If you wish to configure specific proxy settings to be used with this connection, click the **Settings** button.

Launch Browser Window on Connect

Check this box to automatically launch your browser each time you connect to this network. If you want the browser to start at a particular web page each time you connect to this network, enter the address of the desired web page in the box below.

Proxy Settings

The proxy settings window is used to configure settings for Internet Explorer that will be used only for connections via the profile being created or edited. Primarily, this window is used to specify a proxy server that will be used for the connection. A proxy server acts as an intermediary between your local network and the Internet, forwarding requests for web pages and other data from individual users to the Internet. This allows the computers on the local network to remain largely invisible to external parties, rendering those computers somewhat less vulnerable to malicious attack.

Note: Automatic settings in the top section of this window override any manually specified proxy server in the lower section. If you want to manually specify a proxy server, make sure the top two boxes remain unchecked.

Automatically detect settings

If this box is checked, your browser will automatically detect proxy servers and other configuration settings used to connect to the Internet.

Automatic configuration settings are contained in a file provided by your network administrator.

Use Automatic configuration script

Check this box if your browser should use configuration information contained in a file provided by your network administrator. The file might include settings for options such as what home page to use or configuration settings for the proxy server.

Use the **Address** space below to enter either the filename or a URL for the file you wish to use.

Use a proxy server for this connection

Check this box if you want your browser to use a proxy server when accessing the Internet. Then enter the address and TCP port number of the proxy server through which you wish to connect in the spaces provided.

Click the **Advanced** button to access more detailed settings for this proxy server.

Bypass proxy server for local addresses

Because a proxy server acts as a security barrier between your local network and the rest of the Internet, you may not actually need it when accessing other computers on your local network. Checking this box allows you to avoid using the proxy server in these cases.

Proxy Settings: Advanced

The Advanced Proxy Settings window allows you to configure detailed proxy server settings. There are two groups of settings here:

Servers

If you want to specify separate proxy servers for each protocol, enter the addresses and port numbers of the servers you wish to use here. Otherwise, check the **Use the same proxy server for all protocols** box.

Exceptions

Provides a space for you to type the web addresses that do not need to be accessed through your proxy server.

If you want to connect to a computer on your local network, type its address in this box. For example, type "joe1" if you want to access a computer named joe1.

You can use wild cards to match domain and host names or addresses—for example, www.*.com, 128*, *.mygroup.* and so on.

Connection Manager Settings

Accessing the Settings Window

The Settings window allows you to configure the behaviour of the Connect Me software. Among other things, these settings control how the client connects to networks, the sounds it produces and when it retrieves updates.

In the menu bar, click **Options** then **Settings**.

Settings: Application

The Application tab contains general settings for the Connect Me software. The following options are available:

User interface is always on top

Connect Me will always appear on top of other application windows.

Enable splash screen

Connect Me will display a splash screen while it starts up.

Automatically run this application on machine start-up

Connect Me will be launched automatically each time you start your computer.

Display connection timer

This box controls whether the connection timer will be displayed in the main window. When the box is checked (default), the timer will be displayed. When the box is unchecked, the timer will not appear.

Use this as my default Wi-Fi management utility

This box enables and disables Connect Me's Wi-Fi capabilities. When this box is not checked, Wi-Fi functionality is disabled and does not appear in the Connect Me user interface. This is useful if you have another Wi-Fi management utility that you would rather use instead of Connect Me.

Start in minimized mode

Connect Me will start in a minimized mode. Only Connect Me's **System Tray Icon** will be visible. Double-click the System Tray Icon to return Connect Me to view.

Hide application after connect

If this box is checked, Connect Me will hide itself once you are connected. Only Connect Me's **System Tray Icon** will be visible. Double-click the System Tray Icon to return Connect Me to view.

Show application on device insertion

If this box is checked, Connect Me will return to full size (after being minimized) when you attach your 3G mobile device.

Transparency

This menu allows you to increase the transparency of Connect Me's main window.

Zoom

This menu lets you stretch the main user interface up to twice its default size.

Reset all warning messages

Connect Me provides various warning messages that can be disabled if you do not want to see them (typically, this involves checking a 'Do not show me this message again' box). You can turn all of these warning messages back on by clicking the **Reset** button.

Disable SMS Toaster

Check this box if you want to suppress the popup message that appears when you receive a new SMS message.

Settings: Connection Timeout

The settings on the Connection Timeout tab allow you to specify if and when Connect Me will automatically shut down a connection.

Configuring Duration Timeouts

A duration timeout is simply a maximum time allowed for any connection. So, if you specify a duration timeout of 30 minutes, any connection that lasts 30 minutes will be shut down.

To configure a duration timeout, check the **Enable Duration Timeout** box. Then, specify the number of minutes after which the timeout should occur.

If you want Connect Me to warn you before it disconnects for a duration timeout, check **Display warning before timeout**.

Configuring Inactivity Timeouts

Configuring an inactivity timeout instructs Connect Me to disconnect if there has been little or no data exchanged on a connection for a specified number of minutes.

To configure an inactivity timeout, check the **Enable Inactivity Timeout** box. Then, specify the number of minutes of inactivity that will trigger the timeout.

Settings: Hardware

The Hardware tab is used to configure hardware-related settings for establishing connections. The following items can be found on this tab:

The Device List

This four-column table takes up most of the tab's area. It is a list of all the devices connected to your computer that may be used to establish network connections. From the device list, you can:

- Enable and disable individual devices
- Choose from multiple devices of the same type
- Configure extended properties for mobile broadband devices
- Change other settings and functions for connected devices

Device Priority

If there are two or more devices within a technology type and **Automatic** is selected in the Selection column, Connect Me will choose the device that is listed first in the Device List. If that device is not currently connected to your computer, it will choose the next device in the list and so on.

To change the order in which devices are listed within their technology type, select a device whose position you wish to change and then click either the **Up** or **Down** button.

Note: This does not allow you to prioritise a Wi-Fi device over a 3G mobile device or vice versa. This type of prioritisation is done by individual network in the **Network Profiles Window**.

Allow simultaneous connections

If this box is checked, Connect Me will allow you to establish more than one connection at a time. (You could be connected to both Wi-Fi and 3G mobile at the same time.)

If this box is NOT checked, Connect Me will prompt you to disconnect before allowing you to establish a second connection.

Note: Some VPN connections may be seen as separate connections by the Connect Me software. If the **Allow simultaneous connections** box is

NOT checked, you may see a "Multiple Connections Not Allowed" error message if you try to make such a VPN connection.

Prompt before switching connections

When in **automatic connection mode**, the Connect Me software can automatically switch to a higher **priority** network if one becomes available. However, since the original connection is shut down once the new connection is fully established, this has the potential to disrupt any activity that was relying on the original connection.

If this box is checked, Connect Me will prompt you for permission to switch networks before it actually does so.

Profiles

Click this button to open the **Network Profiles Window**.

The Device List

The device list is a four-column table that appears at the top of the Hardware tab of the **Settings window**. It is primarily used to select and configure connected devices.

Devices Column

This column lists all the network access devices installed on your computer, grouped by the connection technologies they use. Each technology type heading is followed by the names of the specific devices of that type that are installed on your computer. The technology types are:

- Mobile Devices
- Wi-Fi Devices
- Other Devices

Note: The configuration options for the 'Other Devices' group are significantly different to the other groups.

Selection Column

This column allows you to specify which devices should be used to connect. The choices for this column are:

- **Automatic:** Connect Me will automatically choose the best device for this technology type
- **Disabled:** This option is necessary for some multi-function devices that can connect to only one type of network at a time. For example, you may have a Wi-Fi/3G mobile network adapter that can't access both types of network simultaneously. When using such an adapter, you may have to temporarily shut down Connect Me's access to one of these modes when you wish to use the other mode
- **Manual:** You can manually select the device to be used. After selecting this option, check the box for the device you wish to use

Status Column

This column identifies the operational status of the device (on or off).

Settings Column

3G mobile devices have additional properties that may be configured. Click the **Modify** button that appears in this column to configure those additional properties. This opens the **Device Properties** window.

Other Devices

Unlike other categories in the device list, **Other Devices** lists devices that are NOT supported by Connect Me. Although Connect Me cannot use these devices to establish connections, it can detect when a device in this category has established a connection and (if you desire) shut down its own connections when this occurs.

To monitor the connection status of a device in this group, check the box in the **Selected** column. If you want Connect Me to shut down its own connections when one of these devices establishes a connection, make

sure the Other Connections profile in the **Network Profiles Window** has a high **priority**.

The **Automatic/Manual/Disabled** dropdown menu at the top of the Other Devices group must be set to Manual to change which devices are checked. This menu also determines the default state of the checkbox for newly-detected devices:

- If the dropdown is set to **Automatic**, new devices added to the other group will be checked by default
- If the dropdown is set to **Manual**, new devices will be unchecked by default

Device Properties Window

This window contains additional configuration for 3G mobile devices.

Network Selection

The settings in this section control how Connect Me selects which wireless network to connect to when you are travelling internationally.

- **Automatic**: instructs Connect Me to automatically select the best network to connect to, based on information provided by TelecomNZ. In most cases, this will provide the best connection available. This option is strongly recommended for all but the most advanced users
- **Manual**: instructs Connect Me to always connect to a specified network regardless of the availability of other wireless telephone networks. This is useful if you know of a specific network that always provides you better service and you are willing to put up with occasional service outages when the specified network is unavailable

Note: When manually scanning for networks, Connect Me currently displays all mobile networks in the area. Some networks displayed may not allow you to connect. For this reason, manual network selection is not recommended at this time.

Roaming Selection

The selected option here dictates whether Connect Me will attempt to establish connection to a roaming network:

- **Always**: Connect Me will always connect to roaming networks if the home network is not available
- **Prompt**: Connect Me will prompt to confirm before it attempts to connect to a roaming network

Connection Type

This group determines which software interface Connect Me should use to communicate with your 3G mobile device.

- **NDIS** allows more efficient communication with devices that support it

- **RAS** is supported by more devices

Note: Many devices support only one of these interfaces. If this is the case with your device, the interface that your device supports will be selected by default and you will not be able to change the selection.

Settings: Sounds

The Sounds tab allows you to configure Connect Me to play a sound when various events occur. You can also specify the sounds that Connect Me plays. To enable this feature, check the **Enable sounds** box. Once the feature is enabled, checking the box for an event you wish to associate with a sound, and then click **Browse** to select the sound file that you wish to play (a Windows .WAV file). You can specify sounds for the following events:

Connected

When Connect Me successfully connects to a wireless network.

Lost Connection

When Connect Me disconnects from or loses its connection to a wireless network.

Hotspot Authentication

When Connect Me associates with and connects to a Wi-Fi hotspot.

Settings: Updates

The Updates tab allows you to specify how often (if ever) Connect Me attempts to retrieve updates to its software and its databases.

Update Now

Clicking this button results in Connect Me immediately checking for available updates. If new updates are available, an update wizard will appear. This wizard allows you to choose which updates you want to download and install.

Apply Firmware Update

As part of its update process, Connect Me can download updates to your 3G mobile device's firmware. Normally, such an update will be installed as soon as it is downloaded. In some cases, however, you can choose to defer the update's installation until later. Click **Apply Firmware Update** to install an update that you had earlier chosen to defer.

Note: This button does not appear unless you have uninstalled firmware updates for your current device.

Automatically download and install

Select this option to have Connect Me automatically download and install product updates at regular intervals.

Note: Automatic updates are silent. You will not see the update wizard when updates are downloaded silently.

Prompt me to download and install

Select this option and enter an interval if you would like Connect Me to periodically prompt you to download and install product updates.

Manually download and install

Select this option if you want product updates to be downloaded only when you click the **Update Now** button.

Settings: VPN

The VPN tab specifies how Connect Me accesses **Virtual Private Networks**. The top item, **Do not use VPN**, disables Connect Me's capacity to log into VPNs. This is the correct setting if you do not wish to establish connections to VPNs.

You must choose one of the other two options and fill in the corresponding fields if you want Connect Me to automatically launch your VPN client software connection to specific networks. See **Automatically Launching a VPN Connection** for more about the VPN auto-launch feature.

Use existing VPN profile

Select this option if the VPN client software you will be using is **supported** by Connect Me. Then, specify the supported VPN client software and the Login Profile that you want to use.

Use third party VPN client

Select this option if the VPN client software you will be using is **NOT supported** by Connect Me. Please read **Using a Non-Supported VPN Client** carefully and follow the configuration instructions when using an unsupported VPN client.

Auto Launch

Check this box if you want new network profiles created to automatically launch the VPN software specified above each time you connect. Note that this is only a default. You can change this setting for an individual profile by checking or un-checking the **VPN Auto Launch** box on the General tab of the properties for the desired profile. See **Automatically Launching a VPN Connection** for more information.

Troubleshooting

By Error Number

Windows Numbered RRAS Errors Overview

The numbered errors that are displayed by Connect Me indicate that the Routing and Remote Access Service (RRAS) component of Microsoft Windows is having difficulty establishing or maintaining a 3G mobile connection set up by the Connect Me software. These errors are actually reported by the Windows Operating System. Connect Me merely displays them when they are received.

For troubleshooting instructions for the errors that are most commonly seen in Connect Me, find the appropriate error number below.

Error 619

This error is typically reported when attempting to connect to a 3G mobile network. It indicates a failure during the call setup.

Possible causes

- Network resources are unavailable
- Attempting to reconnect before your device has finished disconnecting from a previous call
- Your device may be malfunctioning

Resolution

Click the **Cancel** button in the main window and wait for Connect Me to display **Ready to Connect**. Then, try again. If you are still unable to connect, follow the steps below.

- Disconnect the 3G mobile device or tethered handset from your computer
- Restart your computer, while your computer is restarting:
- If using a tethered handset, power-cycle the device.
- If using a 3G mobile device with an external antenna, make sure the antenna is connected properly
- Open Connect Me and attempt to connect
- If you are still unable to connect, contact **Technical Support**

Error 628

The connection was terminated by the remote computer before it could be completed.

Possible causes

- Call was dropped due to poor signal
- Call was dropped due to network congestion

Recommendation

- If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer or wireless device may help as well
- Wait 30 seconds and try to connect again

Error 630

Using a Phone Handset as Your Wireless Device

This error is typically reported when your phone or other wireless device has been removed or has not been properly set up. Make sure the device you are using for the current connection is properly attached to your computer. It may be necessary to verify the phone or device setup.

Using a PC Card as Your Wireless Device

This error is typically reported if:

- Connect Me has detected a hardware error in the PC Card
- The PC Card is not properly inserted. Make sure that the PC Card is secure in its slot
- The 'Support SerialKey Devices Accessibility' option is configured to use the COM port to which the modem is connected (see 'Resolving Support SerialKey Devices', below)

Try this first

- Click the **Cancel** button in the main window and wait for Connect Me to display **Ready to Connect**
- Try to connect again
- If this error appears again, turn your computer off and then back on
- Try to connect. If the error still appears, try the solutions listed below

Additional things to try

- Ensure that the modem is installed securely in its slot
- Try attaching the device to a different port (if one is available)
- Remove and reinsert the device to attempt the renegotiating of resources between the computer and modem
- Ensure that the device's drivers are shown in the **Device Manager** with no errors
- Query the 3G mobile device to determine if the device is operating properly. See **Querying a Wireless Modem** for instructions
- Shut down all FAX and PDA software and launch Connect Me again. Some examples of common applications that can cause problems with Connect Me include: Palm Hotsync, Microsoft ActiveSync, and Blackberry Desktop Manager

- Confirm and resolve any existing port conflicts

Resolving Support SerialKey Devices

For Windows XP, ensure that Support SerialKey Devices is not configured with the modem COM port:

- Click **Start**
- Select **Control Panel**
- Select **Accessibility Options**
- Click the **General tab**
- Uncheck the **Use Serial Keys** box

Error 631

This error is typically seen if you disconnect or cancel a 3G mobile connection prior to authentication occurring. In this case, the application is merely informing you that it did not expect you to disconnect at this stage. However, there is no actual failure. You should be able to reconnect at any time.

Error 633

Either the drivers for your wireless device are not functioning properly or some other program is locking the device.

Try These Quick Solutions First

- Try shutting down and unplugging the computer for one minute. Restart the computer and try to connect again

Note: *If you are using an external wireless device to connect and that device has a separate power cord, once the computer has shut down, unplug the wireless device for one minute, plug the device back in, then turn on the device and restart your computer before attempting to connect again.*

- Shut down all FAX and PDA software and launch Connect Me again. Some examples of common applications that can interfere with Connect Me include: Palm Hotsync, Microsoft ActiveSync, and Blackberry Desktop Manager
- Uninstall any other software that manages wireless connections, if present on the computer

Diagnosing More Complicated Causes

If the problem persists, query your 3G mobile device to see if it is responding properly. See **Querying a Wireless Modem** for instructions.

Error 634

This error is typically reported if an unexpected error has occurred while connecting to a Mobile network.

Follow these steps to resolve this error:

- Verify that there is **no default dialup connection selected in the Control Panel**
- If you are still unable to connect, shut down your computer. Then, restart your computer and the Connect Me software
- Try to connect again
- If you are still unable to connect, reinstall the drivers for your wireless device. Refer to the user manual for your wireless device for instructions on reinstalling the drivers for your device and/or obtaining updates for the device's drivers
- If you are still unable to connect, your device may not be properly configured for data access. Contact TelecomNZ Technical Support

Error 635

This error may be reported if an unexpected error has occurred while you were connected to a 3G mobile network.

Resolution

- Click the **Cancel** button in the main window
- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Wait for Connect Me to display **Ready to Connect**
- Try to connect again

Error 651

This error indicates a problem with the hardware driver being used. This error can manifest itself in two unique situations:

- An appropriate driver has become corrupted, or
- You are attempting to use an old driver with a modem firmware that requires a newer driver.

Resolution

- Disconnect the modem from your computer
- Uninstall and reinstall the driver hardware. Refer to the user manual for the device for instructions
- Verify that the device is installed correctly and it is responsive. See **Querying a Wireless Modem** for instructions
- Attempt to connect
- If the issue persists, download and install the latest version of Connect Me
- If the error still persists, contact support personnel for the device or Connect Me **Technical Support**

Error 668

This error indicates that the network connection was dropped.

Possible Causes

- Poor signal
- Network congestion
- You attempted to connect with a 3G mobile device that has not yet been activated
- Incorrect or missing **Network Profile**

Try These Solutions

- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Reboot your computer and try again
- If your 3G mobile device has not yet been activated, contact **Technical Support** to activate it now
- Ensure that your 3G mobile data plan includes the type of access you are attempting. For assistance with rate plans, contact **Technical Support**

Advanced Troubleshooting

- Verify that the correct **Network Profile** is being used in Connect Me
- If no Network Profile is present, create a new profile, and then attempt to connect (see **Creating a Profile for a 3G Mobile Network**)
- If the issue persists, uninstall and reinstall the device drivers for the device. See the user manual for the device for instructions
- If you are still unable to connect, contact **Technical Support**

Error 678: There is No Answer

If you have previously established connections successfully using the same wireless device and connection profile, this problem is most likely because the device that answers your data call is temporarily out of service. This is a network problem, and it will most likely be addressed by TelecomNZ shortly. Select a different connection profile to connect or try again later.

If you have not previously established a connection with this device, it may be a problem with your 3G mobile device's firmware. Verify that your device is using the latest version operating software offered by its manufacturer. If you have an alternative method of connecting to the Internet, you may be able to find links to the latest firmware for your device at the device manufacturer's web site.

Resolution

- Refer to the user manual for your device to obtain the manufacturer's web site address
- Download and install the updated firmware

- Reboot your computer
- Start the Connect Me client and try to connect

Error 679: Cannot Detect a Carrier

This error usually has one of the following causes:

- You are not using the correct connection profile to establish the connection or the connection profile you are using is not configured correctly. Try **editing the network profile** or selecting a different one
- Your device has not been properly provisioned for data access. Contact **Technical Support** for help

Error 680

This error typically occurs only when you are using an external wireless device (such as a phone) rather than a device that is built into your computer. It may have the following causes:

Another Program is using your Wireless Device

This error can appear if another program is already using your wireless device. Shut down any other programs that may be using your wireless device, and then try to connect.

Incorrect Device Selected in the Hardware Settings Tab

- Open the Settings window by clicking **Options** then **Settings**
- Select the **Hardware** tab
- Confirm that the device you are attempting to use is selected in the **Selection** column. (See **The Device List** for a description of all device options in the Hardware tab)
- If you are still unable to connect and are receiving this error, contact **Technical Support**

Error 691

This error may be reported if Connect Me has received an Authentication Error from a mobile network.

Possible causes

- Poor signal
- There is a problem with your wireless account credentials

Resolution

- Click the **Cancel** button in the main window
- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Wait for Connect Me to display **Ready to Connect**

- Try to connect again
- If the problem persists, contact **Technical Support** for help with resolving credential issues

Error 692

This error indicates that there was a hardware failure in the 3G mobile device. This error is typically reported if Connect Me has lost its connection with the device.

Resolution

- Click the **Cancel** button in the main window and wait for Connect Me to display **Ready to Connect**. Try to connect again
- If this problem continues to occur, close Connect Me. Then, restart the software and try to connect again
- If the problem persists and you are using an external device rather than a device built into your computer, disconnect the device from your computer and then reattach. Verify that the device is properly connected to your computer. Try to connect again
- Ensure that any software provided by the device manufacturer, such as Nokia PC Suite or Motorola Mobile Phone Tools, has been disabled (refer to the user manual for the device). These programs can take control of the port that the device is attached to and Connect Me will be unable to connect to the device
- Uninstall and reinstall the device drivers (see the user manual for the device for instructions). Attempt to connect
- If the error persists, try **resolving application conflicts**
- If you are still unable to connect, contact **Technical Support**

Error 717

Connect Me was unable to obtain an IP address from the network. This is most likely only a one-time error.

Resolution

- Click the **Cancel** button in the main window
- Wait for Connect Me to display **Ready to Connect**
- Try to connect again

Error 718: Timeout Waiting for Valid Response from PPP Server

This error indicates that a PPP conversation was started but was terminated because the remote server did not respond within an appropriate time. This can be caused by several conditions including the following:

Temporary Glitches and Services Outages

If you have not made any changes to your wireless device or its drivers since the last time you successfully connected, the problem is most likely caused by transient issues such as poor quality of the wireless signal or a temporary service outage.

- Try connecting again. In many cases, you will be able to immediately connect. If that does not work, restart Windows and try again
- Check the signal strength indicator for 3G mobile networks in the main window. If the signal strength is low, you may need to try a different connection technology or a different network profile, or wait until you are in an area where you can get a better signal
- If you have good signal quality and trying again does not work, there is most likely some sort of temporary service outage.

Driver Issues

Although rare, it is possible that this error can be caused by a defective software driver for your wireless device. The best solution for this is simply to obtain and install the latest version of the driver from your device's manufacturer (refer to the user guide for the device).

TCP/IP Issues

This error may also occur if you do not have TCP/IP protocol enabled for the device that you are using to connect or if its TCP/IP settings are incorrect. Follow these steps to verify that TCP/IP is enabled:

- Select **Control Panel > Network Properties** (or **Network and Dial-Up Properties**) in the Windows Start menu
- Right-click the connection corresponding to your wireless device, and select **Properties** from the context menu that appears
- Select the **Networking** tab
- In the list in the lower half of the window, make sure that **Internet Protocol (TCP/IP)** is present and that its box is checked. If not, click its check box
- Click **OK**

Personal Computer Firewall Issues

Personal firewall software on your computer may be configured to block Internet access— either generally or from specific connections. Make sure that any personal firewall software you are using is configured to permit Connect Me to access the Internet.

Error 719

The PPP session was terminated by the remote machine. This is most likely due either to poor signal or to temporary service outages in the network.

Recommendation

- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well

- Wait 30 seconds and try to connect again
- If you're still having difficulty connecting, reboot the computer and try again

Error 720: No PPP control protocols configured

This error is typically reported if an unexpected error occurred while connecting to a mobile network.

Follow these steps to resolve this error:

- Verify that there is **no default dialup connection selected in the Control Panel**
- If this fails to resolve the error, shut down your computer. Then restart the computer and the Connect Me client. Try to connect again
- If this does not work, reinstall the drivers for your 3G mobile device (refer to the user's manual for the device for instructions)
- If you are still unable to connect, your device may not be properly provisioned for data access. Contact **Technical Support** for help

Error 721: Remote PPP peer or computer is not responding

This error is typically reported if an unexpected error occurred while connecting to a Mobile network.

Follow these steps to resolve this error:

- Verify that there is **no default dialup connection selected in the Control Panel**
- Restart Connect Me and try to connect
- If this fails to resolve the error, shut down your computer. Then restart the computer and the Connect Me client. Try to connect again
- If this does not work, reinstall the drivers for your 3G mobile device (refer to the user's manual for the device for instructions)
- If you are still unable to connect, your device may not be properly provisioned for data access. Contact **Technical Support** for help

Error 734: The PPP link control protocol terminated

This error is typically reported if an unexpected error occurred while connecting to a Mobile network, but it may also be due to poor signal strength.

Resolution

- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Verify that there is **no default dialup connection is selected in the Control Panel**
- Restart Connect Me and try to connect

- If this fails to resolve the error, shut down your computer. Then restart the computer and the Connect Me client. Try to connect again
- If this does not work, reinstall the drivers for your 3G mobile device (refer to the user's manual for the device for instructions)
- If you are still unable to connect, your device may not be properly provisioned for data access. Contact **Technical Support** for help

Error 736

This error may be reported if a network connection cannot be established. This may be due to poor signal strength.

Resolution

- Click the **Cancel** button in the main window
- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Wait for Connect Me to display **Ready to Connect**
- Try to connect again

Error 744

This error may be reported if an unexpected error occurred while you were connected to a mobile network.

Resolution

- Click the **Cancel** button in the main interface window
- Wait for Connect Me to display **Ready to Connect**
- Try to connect again, but this time, select a network to connect to that has a stronger **signal**

Error 774

This error is typically reported if an unexpected error has occurred while connecting to a mobile network.

Follow these steps to resolve this error:

- Verify that there is **no default dialup connection selected in the Control Panel**
- Restart Connect Me and try to connect
- If this fails to resolve the error, shut down your computer. Then restart the computer and the Connect Me client. Try to connect again
- If this does not work, reinstall the drivers for your 3G mobile device (refer to the user's manual for the device for instructions)
- If you are still unable to connect, your device may not be properly provisioned for data access. Contact **Technical Support** for help.

Error 777

Possible causes

- Poor signal
- Network resources are unavailable
- There is a problem with one of the wireless device drivers

Resolution

Follow the steps below to resolve this error:

- Make sure that your wireless device is properly connected to your computer
- Optimise your signal strength: If indoors, move closer to a window, exterior wall or a higher level. Reorienting the computer/wireless device may help as well
- Try to connect again
- If you still receive this error, shut down your computer
- Restart your computer and the Connect Me client. Try to connect again
- If the problem persists, there may be a problem with the software driver for your wireless device
- You may need to reset the driver for your device. Refer to the user's manual for your device for instructions to reset the driver
 - or—
- You may need to obtain and install the latest/updated driver from the manufacturer of your device. Updated drivers are usually available to download from the manufacturer's website
- If you have an alternative way to access the Internet:
 - Refer to the user manual for your device to obtain the manufacturer's website address
 - Download and install the updated driver
 - Reboot your computer
 - Start the Connect Me client and try to connect

By Problem Description

Device Disabled

Any of the devices used by the Connect Me software can be disabled by Microsoft Windows. You can tell Windows to re-enable the device by following the appropriate procedure below.

Windows XP

- Open the Windows System Properties folder. The procedure for doing this depends on whether **My Computer** is on your desktop or in the first level of the Start menu

- If **My Computer** is on your desktop, right click on the icon and then select **Properties** from the menu
- If it is on the first level of the Start menu, select **My Computer** from the Start menu and then click **View System Information** in the left column of the window
- Select the **Hardware** tab
- Click **Device Manager**
- Locate the disabled device in Device Manager. Most devices used by Connect Me will be listed under the **Network Adapters** heading, but a few may be listed under **Modems**
- Right click on the disabled device and then select **Enable** from the menu

Windows Vista and Windows 7

- Open the Windows System Properties folder. The procedure for doing this depends on whether Computer is on your desktop or in the first level of the Start menu
- If **Computer** is on your desktop, right click on the icon and then select **Properties** from the menu
- If it is on the first level of the Start menu, select **Computer** from the Start menu and then click **System Properties** at the top of the window
- Click the **Device Manager** link in the left column
- Locate the disabled device in Device Manager. Most devices used by Connect Me will be listed under the **Network Adapters** heading, but a few may be listed under **Modems**
- Right click on the disabled device and then select **Enable** from the menu

No Wireless Device Detected

Connect Me will display 'No Wireless Device Detected' if it cannot actively communicate with the wireless device.

Causes for this may include:

- Devices (such as wireless phones) that must be tethered to your computer with a data cable (such as USB), but are not currently properly connected. Make sure the cables for devices that require them are properly attached to both your computer and the device
- External devices (such as wireless phones) that are not currently powered on. Make sure external devices are switched on. Make sure the batteries of battery-powered devices are charged. Make sure devices that must be plugged into an electrical outlet are plugged in
- PC Card, USB, or Express Card devices that are not properly inserted. Make sure such devices are firmly seated in the appropriate slots
- The wrong device is selected in the **Hardware tab** of the Settings window. Ordinarily, automatic selection should be specified in the

Selection column. If manual selection is specified, verify that the selected device is the device you are trying to use

- No driver or an incorrect driver installed. Ensure that the latest drivers for the device are correctly installed according to the instructions of the device's manufacturer

Multiple Connections Not Allowed

This error message appears if both of the following conditions are met:

- The Allow simultaneous connections box on the **Hardware Tab** of the Settings window is not checked
- You attempted to establish a second connection while you were still connected using another technology

Note: VPN connections established by certain VPN client software (such as Checkpoint VPN) may appear to Connect Me as a second connection. In such cases, you may also see this message.

Resolution

To prevent this error message from appearing:

- Select **Settings** from the Tools menu
- Click **Hardware**
- Check **Allow simultaneous connections**
- Click **OK**

Wi-Fi Issues

Why do I keep losing my connection?

This may be due to interference caused by other devices like cordless phones, microwave ovens and other 2.4GHz band devices.

Why am I unable to connect to a signal that I can see in Connect Me?

Signal strength from the wireless access point may not be strong enough to allow reliable connections. It may not be a publicly available access point.

Why Does Connect Me shut down Windows XP's native Wi-Fi management?

Connect Me provides significantly more powerful Wi-Fi management than XP's native Wi-Fi engine. However, if you prefer XP's native tool, you can disable Connect Me's Wi-Fi management entirely. See **Zero Config Wi-Fi** for more information.

Client Auto-Launch

How do I stop Connect Me from launching every time I restart my PC?

Follow these steps:

- Click **Options** then **Settings** in the menu bar
- Select the **Application** tab
- Remove the check from the **Automatically run this application on machine startup** box
- Click **OK**

Accessing the Windows Device Manager

To access the Device Manager on your computer, follow the steps below for your operating system:

Windows XP

- Open the Windows System Properties folder. The procedure for doing this depends on whether My Computer is on your desktop or in the first level of the Start menu:
- If **My Computer** is on your desktop, right-click the icon, and then select **Properties** from the context menu

or -

- If it is on the first level of the Start menu, select **My Computer** from the **Start** menu, and then click **View System Information** in the left column of the window.
- Select **Hardware**
- Click the **Device Manager** button
- In the Device Manager window, check to see if any device is marked with a yellow question mark. Such a question mark indicates that there is a problem with the driver

Windows Vista & Windows 7

- Display the Windows System Properties folder. The procedure for doing this depends on whether **Computer** is on your desktop or in the first level of the **Start** menu:
- If **Computer** is on your desktop, right-click the icon, and then select **Properties** from the context menu

— or—

- If it is on the first level of the Start menu, select **Computer** from the Start menu, and then click **System Properties** at the top of the window.
- Click the **Device Manager** link in the left column

- In the Device Manager window, check to see if any device is marked with a yellow question mark. Such a question mark indicates that there is a problem with the driver

Correcting Default Connection Settings

Several Windows OS RRAS errors can be caused by a network connection in the Control Panel being configured as your default connection. This will prohibit you from using any other connection type.

Follow the steps below to ensure that the configurations are correct:

- Exit the Connect Me software
- Select **Start > Control Panel > Network Connections** (or **Network and Dial-Up Connections**)
- A window will appear that lists all of the network connections your computer is currently configured to establish. If any connection listed under the 'Dial-Up' heading includes a check mark, remove this by right-clicking that connection and selecting **Cancel as Default Connection** from the context menu that appears
- Click **OK**
- Restart the Connect Me software and try to connect

Querying a Wireless Modem

You can query a 3G mobile modem to determine if it's operating properly.

On Windows XP

- Close the Connect Me software
- Display the Windows System Properties folder. The procedure to do this varies depending on whether My Computer is on your desktop or in the first level of the Start menu
- If **My Computer** is on your desktop, right-click the icon and then select **Properties** from the context menu
- If it is on the first level of the Start menu, select **My Computer** from the Start menu and then click **View System Information** in the left column
- Select Hardware
- Click Device Manager
- In the Modems group, locate the device that you were using when you received the error. Right-click this device and select Properties from the context menu
- Select the Diagnostics tab
- Click the Query Modem button. If the device is functioning properly, the Diagnostics tab will display a series of commands and responses

- If you receive an error that states that the modem is not responding and another application may be using the port, another application has most likely locked the device. See **Resolving Application Conflicts**
- If you receive any other error or no responses appear at all, your device driver is not functioning properly. Refer to the user manual for the device for instructions to reinstall or repair the driver

On Windows Vista and Windows 7

- Close the Connect Me software
- Display the Windows System Properties folder. The procedure to do this varies depending on whether **Computer** is on your desktop or in the first level of the Start menu
- If it is on your desktop, right-click the **Computer** icon and then select **Properties** from the context menu
- If it is on the first level of the Start menu, select **Computer** from the Start menu, and then click the **System Properties** link at the top of the window
- Click the **Device Manager** link in the left column
- In the Modems group, locate the device that you were using when you received the error. Right-click this device and select **Properties** from the context menu
- Select the **Diagnostics** tab
- Click the **Query Modem** button. If the device is functioning properly, the Diagnostics tab displays a series of commands and responses
- If you receive an error that states that the modem is not responding and another application may be using the port, another application has most likely locked the device. See **Resolving Application Conflicts**
- If you receive any other error or no responses appear at all, your device driver is not functioning properly. Refer to the user manual for the device for instructions to reinstall or repair the driver

Resolving Application Conflicts

Shut down all other applications that are running on your computer and try to connect again. If you still receive this error, follow the steps below to locate the application that is locking your wireless device:

- Simultaneously hold down <**Ctrl**> and <**Alt**>, then press the <**Delete**> key
- Click on **Task Manager**
- Close each application listed in the Applications tab. To do this, select the application and then click the **End Task** button. Repeat as necessary until all applications except Task Manager have been removed from the list
- Select the **Processes** tab

- Click the **End Process** button to shut down all of the processes except the following:
- Windows Explorer/Internet Explorer (designated "explorer.exe" in the Image Name column)
- Task Manager (designated taskmgr.exe in the Image Name column)
- Every program for which the User Name is "SYSTEM"
- Close Task Manager by clicking the **x** at the top right of the window or selecting the **File menu > Exit Task Manager**
- Try your connection again. If this resolved the problem, restart your computer and reconnect
- If you receive this error again either now or in the future, repeat the steps above, but this time:
 - In Step 3, click the **End Task** button for only one program at a time
 - After each time you click **End Task**, try your connection

When the error no longer appears, you will have identified which program was creating the conflict and know how to shut it down in the future.

Zero Config Wi-Fi

Zero Config is the Wi-Fi management utility built into Windows XP. Connect Me provides significantly enhanced Wi-Fi management capabilities, including the following:

- Automatically logging on to all of your wireless provider's partner Wi-Fi networks
- Specifying connection priority on a network by network basis, allowing dynamic roaming not only to other Wi-Fi networks, but also to 3G mobile networks (and vice versa)
- If desired, automatically shutting down your Wi-Fi connection when you establish a connection to another network technology, such as the local network at your home or office
- Configuring a VPN client, your browser, or other applications to be automatically launched when you connect to selected Wi-Fi networks
- In order to provide these enhanced capabilities, Connect Me must manage Wi-Fi connections itself. Since Wi-Fi cannot be managed by two different applications simultaneously, Zero Config is shut down

Note: The native Wi-Fi management tool in Windows Vista and Windows 7 is a completely different tool than XP's Zero Config. These operating systems do not allow third-party applications such as Connect Me to shut the tool down. However, they do provide support for external enhancements. This allows Connect Me to provide almost as much functionality on Windows Vista and Windows 7 as it does on XP, without actually shutting the tool down.

How do I return Wi-Fi Control to Zero Config?

Connect Me returns control to Zero Config automatically whenever you exit the Connect Me application. If you would rather use Zero Config to manage Wi-Fi connections even when Connect Me is running, you must disable Connect Me's Wi-Fi management.

- Select **Options** then **Settings** in the menu bar
- Select the **Application tab**
- Remove the check from the box labelled **Use this as my default Wi-Fi management utility**
- Click **OK**

Note: This procedure disables ALL of Connect Me's Wi-Fi functionality and hides all Wi-Fi related items in the user interface.

Technical Support

For information on obtaining technical support for the Connect Me software, select **About** from the Help menu.

When contacting support, be ready to supply information about the version of Windows and the type of wireless device you are using as well a description of the problem you are experiencing.