

This document explains how to set up dial up connection for a CDMA EVDO Data card running Windows Vista.

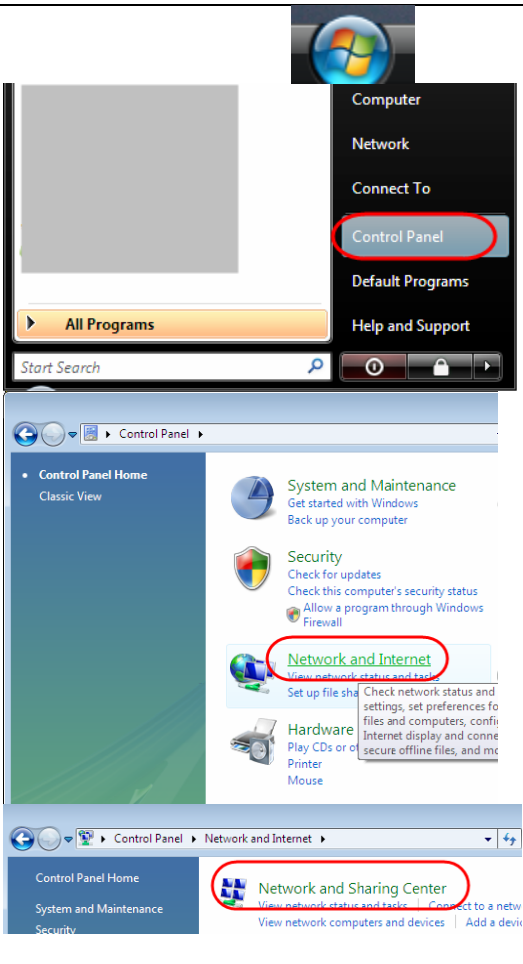
## Preparation

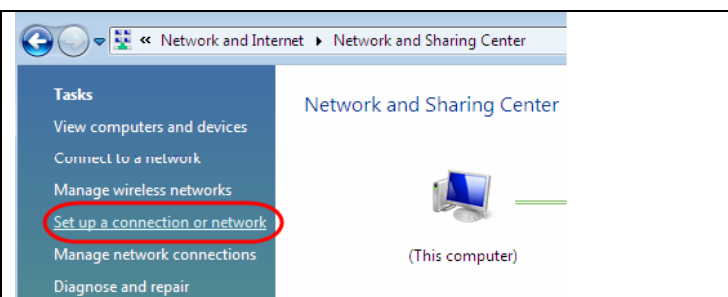
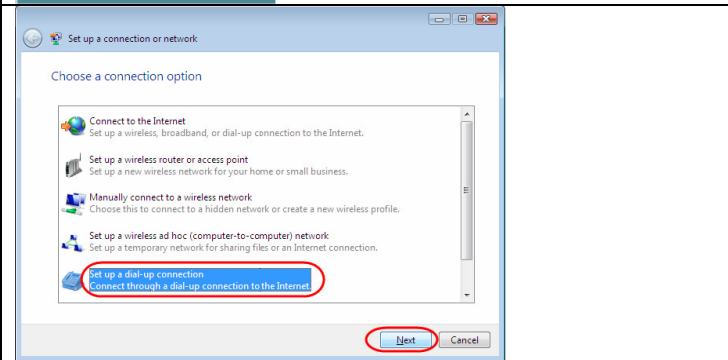
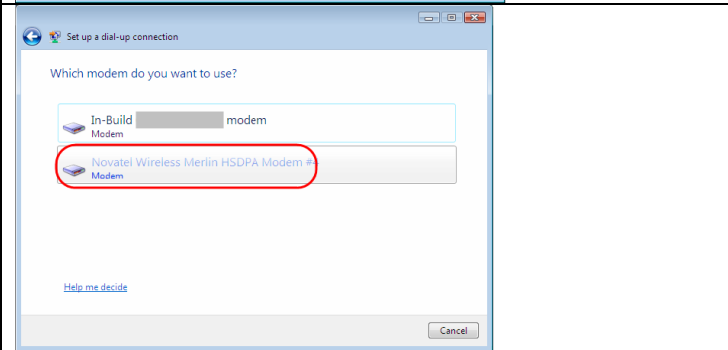
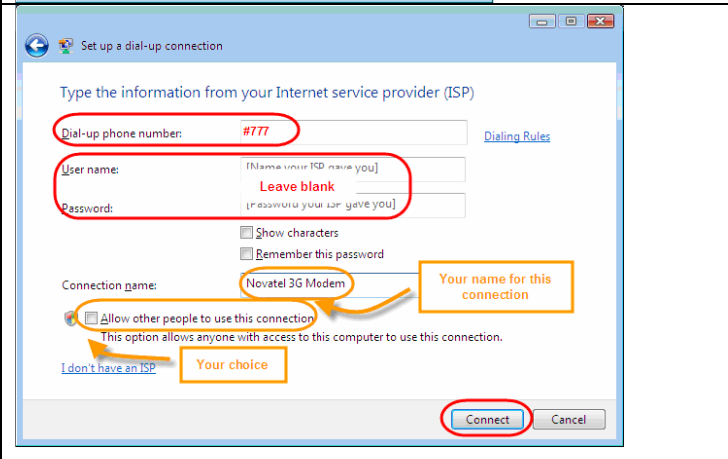
### Requirements

- ✓ Windows Vista pre-installed on your computer
- ✓ Administrator privileges on the Windows Vista machine.
- ✓ Activated Data Card "Modem"
- ✓ Network Coverage

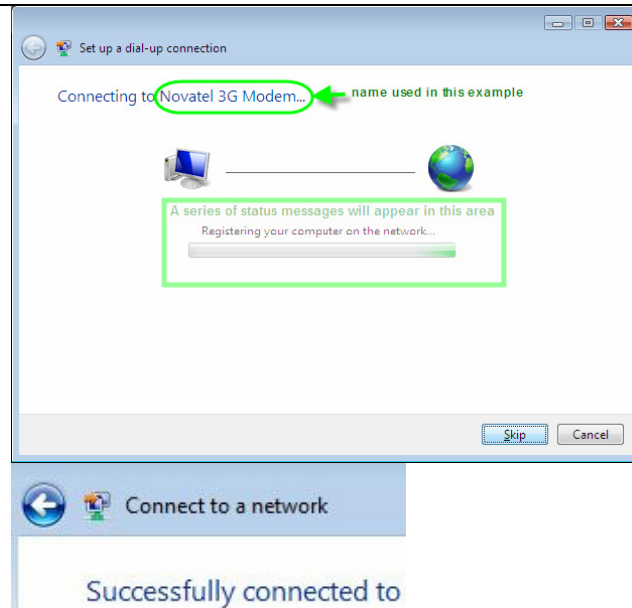
## Setup

When you have met all these requirements, follow these steps to perform the installation and configuration.

<p>Close all windows and programs open on your screen</p>	
<p>Click <b>Start</b> -&gt;<b>Settings</b> -&gt;<b>Control Panel</b> -&gt; <b>Network and Internet</b> -&gt; <b>Network and Sharing Center</b></p>	 <p>The screenshot illustrates the navigation steps from the Windows Start menu to the Network and Sharing Center. The Start menu is open, showing the 'Control Panel' option highlighted with a red circle. Below it, the Control Panel window is shown in 'Classic View'. The 'Network and Internet' link is highlighted with a red circle, and a tooltip for it is visible. At the bottom, the 'Network and Sharing Center' link is also highlighted with a red circle, with its tooltip displayed. The breadcrumb trail at the bottom of the Control Panel window reads: Control Panel &gt; Network and Internet &gt; Network and Sharing Center.</p>

<p>Network and Sharing Center</p> <p><b>Select</b> "Set up a connection or network"</p>	
<p>Set up a connection or network</p> <p><b>Select</b> 'Set up a dial-up connection: click <b>Next</b> to continue</p>	
<p>Choose Modem</p> <p><b>Select</b> 'Novatel Wireless.....'.</p>	
<p><b>Enter</b> Dial-up Phone Number – <b>#777</b></p> <p><b>Leave blank</b> your user name and password</p> <p><b>Enter a connection name</b></p> <p>Depending on your preference, you may choose to make this connection available to other users on this computer</p> <p>Click <b>Connect</b></p>	

Connecting to



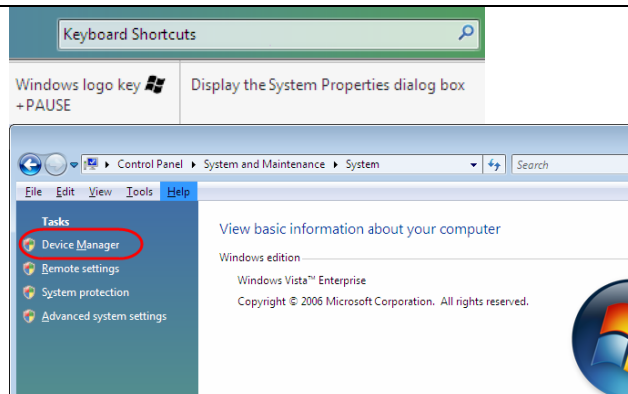
This will allow you to connect to the network. In order to use the internet, you must do one more step.

## Add APN to modem initialization string.

Go to System Properties screen

Quickest way is to  
**Press Windows key and Pause key** at same time to open System

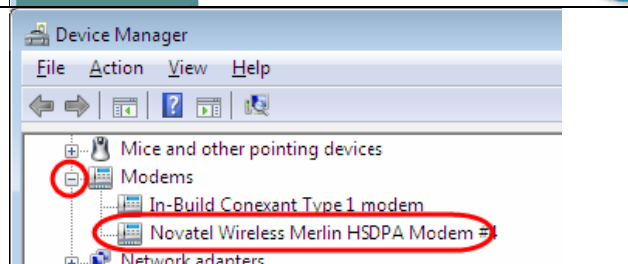
**Select 'Device Manager'**



Expand Modems

**Click on '+'** to expand Modems

**Right Click on "Novatel Wireless..."** and select **Properties**

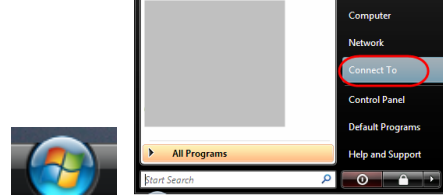


Close Device Manager

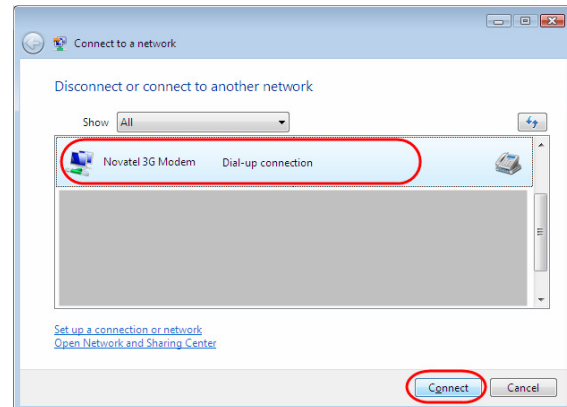
## Connect

If you did not create and shortcut icon or it has been deleted.

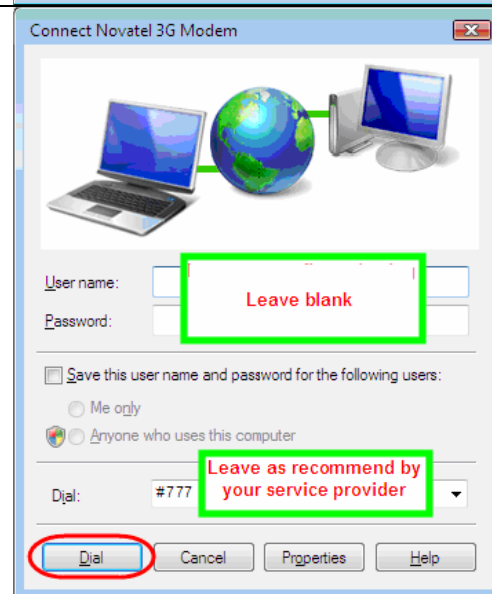
Go to 'Start' -> 'Connect To'



'Select connection'— 'Connect'

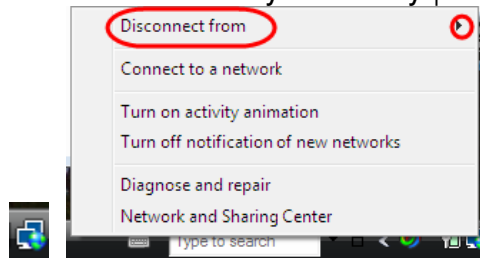


Click Dial



## Disconnect

Network Connection in System Tray | Right Click | Disconnect from



Novatel Wireless Modem.

Or

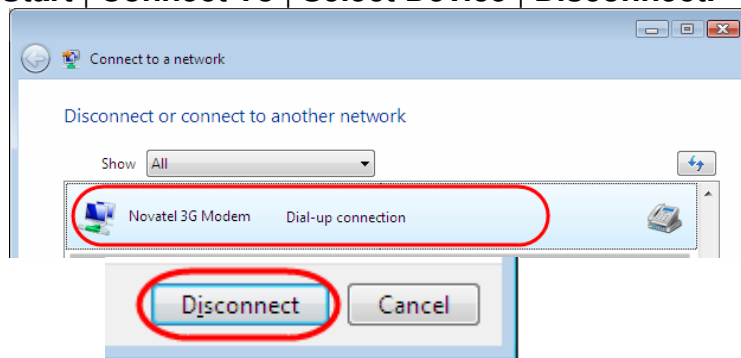
To disconnect, **double click** on the desktop shortcut icon for your dialup connection to open connection status and click on **Disconnect**.



DUN  
name

Or

Go to **Start** | **Connect To** | **Select Device** | **Disconnect**.



## Troubleshooting

LED provides good diagnostic information.

### LED Indicator

LED <i>not lit</i>	No Power to Card - physical - driver or conflict
LED <i>RED</i>	Card can not acquire CDMA service (outside coverage area)
LED <i>GREEN</i> After a few seconds – <i>flashing</i> 1 per second	Card is registered with a CDMA network - does not require *CM to be running  *CM - Connection Manager
LED <i>ORANGE</i>	Card Fault – replace card

If the LED is not lit, then check that the device is connected properly. If physical connection seems good, then check for the device in the device manager.

### Device Manager

Verify that your device is found in Device Manager without Red 'X's or Yellow Triangles with '!'. If these conditions show, then there is a driver problem or device conflict

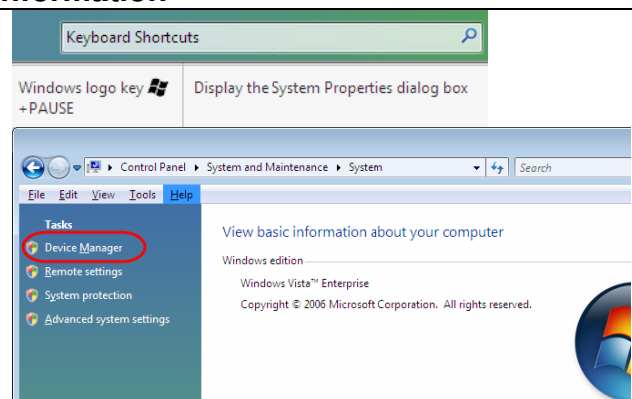
When you insert your Novatel Wireless device into your computer, Windows will double ding and popup messages indicating new hardware found. Please note any error or warning messages that may popup.

### To get Hardware Device Manager Information

Go to System Properties screen

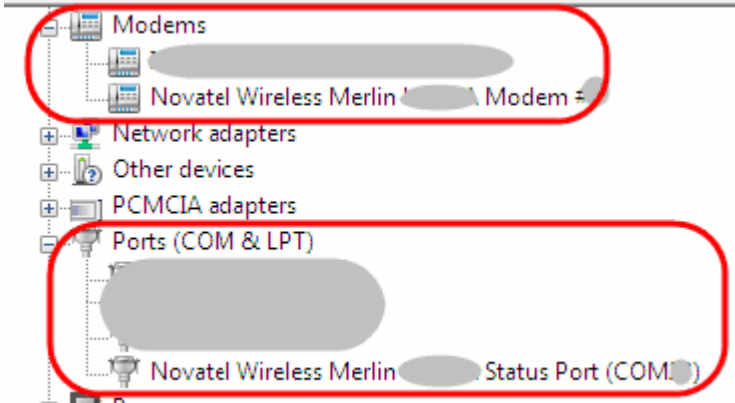
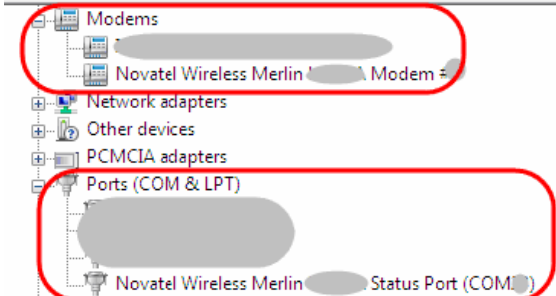
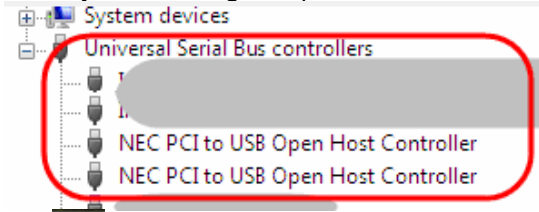
Quickest way is to  
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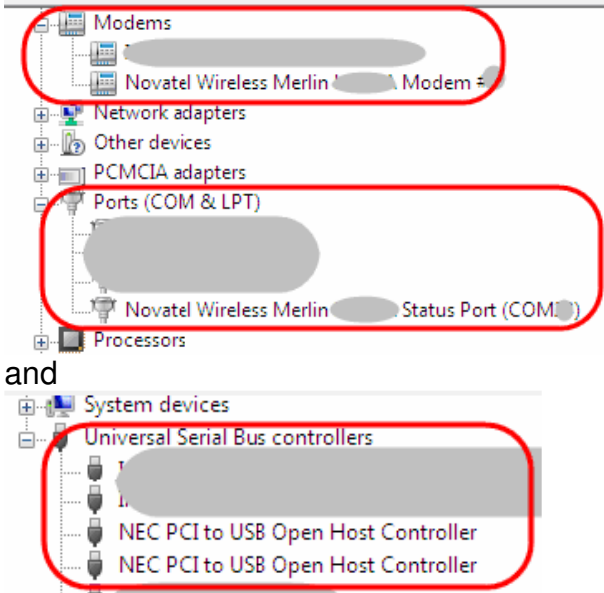

**Select 'Device Manager'**




- Click '+' to expand a device type
  - Highlight device (left click)
  - Right Click – Select Properties (left click)

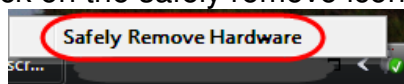
Please check one of the following sections appropriate for your device

<p><b>Ovation USB Devices</b></p> <p>MC727 MCD3000</p> <p>U727 U720</p> <p>USB727 USB720</p>	<p><b>2 Devices <b>Must</b> show</b></p> <ul style="list-style-type: none"> <li>- Modem Section – Novatel Wireless Merlin CDMA EV-DO Modem</li> <li>- Ports Section – Novatel Wireless Merlin CDMA EV-DO Status Port (COM# will vary by system)</li> </ul>  <ul style="list-style-type: none"> <li>- Depending on the device and options available, other Novatel Wireless Merlin ports may also show.</li> <li>- The 'Safely Remove Device' icon may not show in system tray – not required for this device</li> </ul>
<p><b>ExpressCard Devices</b></p> <p>X720 EX720 V720</p> <p>V640 XV620</p>	<p><b>2 Devices <b>Must</b> show</b></p> <ul style="list-style-type: none"> <li>- Modem Section – Novatel Wireless Merlin CDMA EV-DO Modem</li> <li>- Ports Section – Novatel Wireless Merlin CDMA EV-DO Status Port (COM# will vary by system)</li> </ul>  <ul style="list-style-type: none"> <li>- Depending on the device and options available, other Novatel Wireless Merlin ports may also show.</li> <li>- The 'Safely Remove Device' icon may not show in system tray – not required for this device</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>- if you are using a ExpressCard-PCMCIA adapter, you will also see</li> </ul>  <ul style="list-style-type: none"> <li>- Safely Remove Device Icon will show in System Tray</li> </ul>

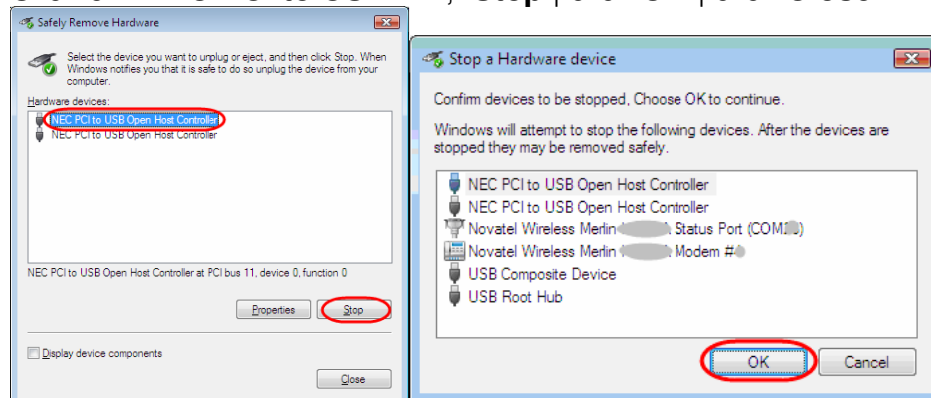
<p><b>PCMCIA Devices</b></p> <p>U730, U740 U630 U520, U530</p>	<p><b>3 Devices <b>MUST</b> show</b></p> <ul style="list-style-type: none"> <li>- Modem Section – Novatel Wireless Merlin CDMA EV-DO Modem</li> <li>- Ports Section – Novatel Wireless Merlin CDMA EV-DO Status Port (COM# will vary by system)</li> <li>- Universal Serial Bus Controller – NEC PCI to USB Open Host Controller</li> </ul>  <p>and</p>  <p><b>Safely Remove Device Icon will show in System Tray</b></p>
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To remove PCMCIA modems or Expresscard modems using a PCMCIA adapter without shutting down the computer

- Right click on the safely remove icon in system tray 

- Click on 

- Click on “**NEC PCI to USB....**”, **Stop** | click **OK** | click **Close**.



If required, drivers are available for download at

[www.nvtl.com/releases/NvtlDriver\\_V2.01.07MSI.zip](http://www.nvtl.com/releases/NvtlDriver_V2.01.07MSI.zip)