



# **DIAL-UP DATA**

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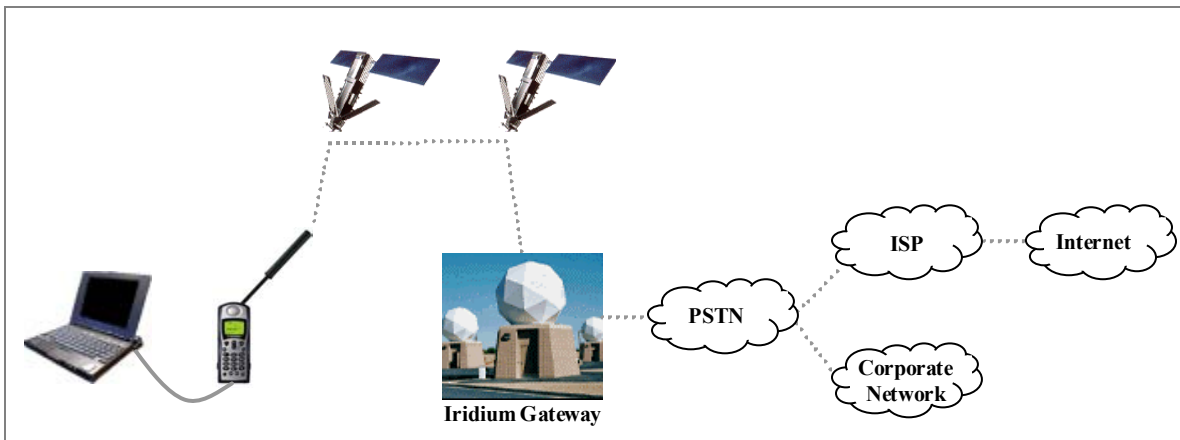
## 1 Dial-Up Data Overview

*Dial-Up Data Service* provides dial-up connectivity through your Iridium phone to another computer, a remote LAN (e.g., a corporate network), or an Internet Service Provider (ISP). This service offers a typical data rate of 2.4 Kbps.

You will be able to use Dial-Up Data service just as you would use the modem on your computer to dial a call through the public switched telephone network (PSTN). The only differences are that the dialed telephone number must conform to the international dialing pattern used by Iridium, and that you will use your Iridium phone as the data modem. In essence, your Iridium phone appears as an external modem to your computer. Before using Dial-Up Data, you will need to install the Motorola Satellite Series Data Modem driver (provided on the Iridium World Data Services CD) on your computer. You will then be able to use standard software applications (e.g., Microsoft Dial-Up Networking) to initiate data calls with Dial-Up Data Service.

### ***How it works***

Dial-Up Data Service functions in much the same way. From the perspective of your computer, the Iridium handset is an external modem. On your computer, you will configure a dial-up networking connection. As part of that connection, you will identify the modem associated with the Iridium handset and the phone number to dial. Then, in dial-up networking you will enter your user name and password to access your ISP, and you will initiate the connection. Your handset will dial and initiate a connection with the Iridium gateway through the Iridium satellite constellation. Since your Iridium handset is requesting to establish a data connection, the switch at the gateway will route the call through a modem. The modem at the Iridium gateway will then dial into and connect to another modem at your ISP. Once connected and a session has been established, you can check your email and browse the Internet just like you would across the PSTN. Figure 1 illustrates how a Dial-Up data call is routed.



**Figure 1. Iridium Dial-Up Data Connectivity**

## 2 Hardware/Software Requirements

To use Iridium Dial-Up Data Service, you will need the following:

- ✓ **A Windows®-based PC**, with:
  - Windows® 95, 98, Me, NT4.0 (Service Pack 4 or later), 2000 or XP
  - CD-ROM drive
  - Serial port
- ✓ **A SIM Card** that is provisioned for data (note that this SIM can also be used for voice calls).
- ✓ **An Iridium Phone** with a data-capable internal software version and additional hardware/software:

Iridium Phone Type	Software Version Required	Hardware/Software Required
Motorola 9500 Portable Phone	INC0620 or later <sup>1</sup>	Data Kit
Motorola 9505 Portable Phone	LAC109G or later <sup>1</sup>	Data Kit
Motorola 9520 Mobile Phone	RAC0620 or later <sup>1</sup>	Data CD
Motorola 9521 LBT-based products (e.g. the Iridium 9500 Data Module)	RAC0620 or later	Custom Cable, Power Supply <sup>2</sup> and Data CD
Motorola 9522 LBT-based products	All software versions for the 9522 are data capable	Custom Cable, Power supply <sup>2</sup> and Data CD
EuroCom Fixed Mount Unit	Transceiver software version 3.xx.xx or later <sup>3</sup>	Serial Cable <sup>4</sup> and Data CD

<sup>1</sup> To check the software version: Turn the phone on and press \*#91#.

<sup>2</sup> Consult product documentation for details.

<sup>3</sup> Consult the user's guide that came with the phone for instructions on how to check the transceiver software version.

<sup>4</sup> Included with the phone. Note that this is a "straight through" and **not** a null modem cable.

### 3 Modem Driver Installation and Configuration

Prior to using your Iridium phone as a modem for Dial-Up Data, you must do the following:

- Install the Motorola Satellite Series™ modem driver on your PC, and
- Set up and configure a dial-up networking connection.

This section contains instructions for installing the modem driver and configuring Dial-Up Networking in selected Microsoft Windows environments. These instructions are identical to those that you would use to install and configure any new modem in Microsoft Windows. If you cannot find your operating system below, please refer to the user manual provided with your computer and follow the instructions for installing a new modem.

**Note:** In order to proceed, Dial-Up Networking must be installed on your computer. Dial-Up Networking is a standard Windows feature that is typically installed by default when a computer is initially set up. If Dial-Up Networking is not installed on your computer, please refer to the user manual provided with your operating system and follow the instructions for installing Dial-Up Networking.

⇒ For **Windows 95, 98 or Me**, complete the steps in section [3.1](#)

⇒ For **Windows NT4.0**, complete the steps in section [3.2](#)

⇒ For **Windows 2000**, complete the steps in section [3.3](#)

⇒ For **Windows XP**, complete the steps in section [3.4](#)

### 3.1 Windows 95/98/Me Setup

In order to install the modem driver and configure dial-up networking, you will need the following:

- ✓ The Iridium World Data Services CD
- ✓ An available communications port on your computer (e.g., COM1)

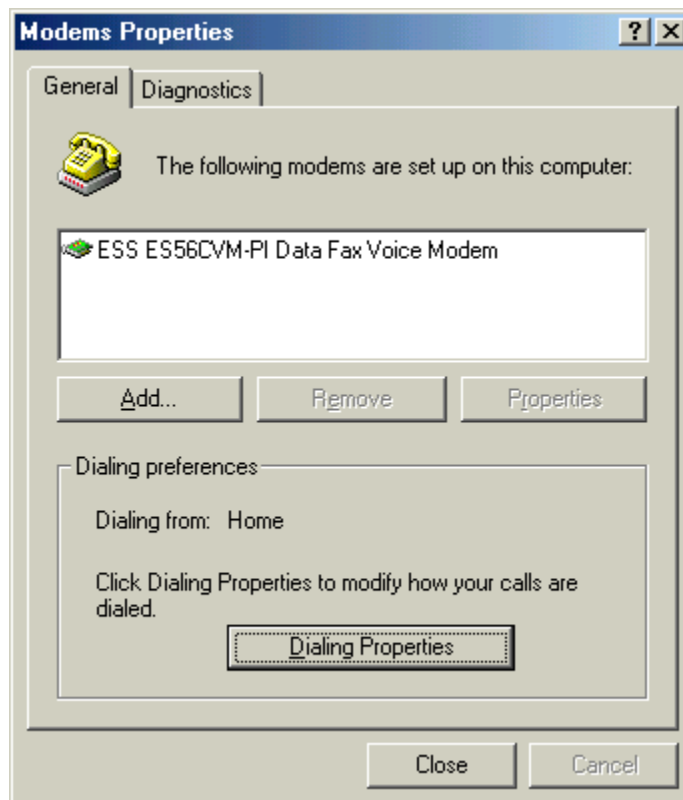
**Note:** The following instructions are for Windows Me. Windows 95 and 98 are very similar in appearance, but the individual screens you see may differ slightly.

#### 3.1.1 Install the Modem Driver – Windows 95/98/Me

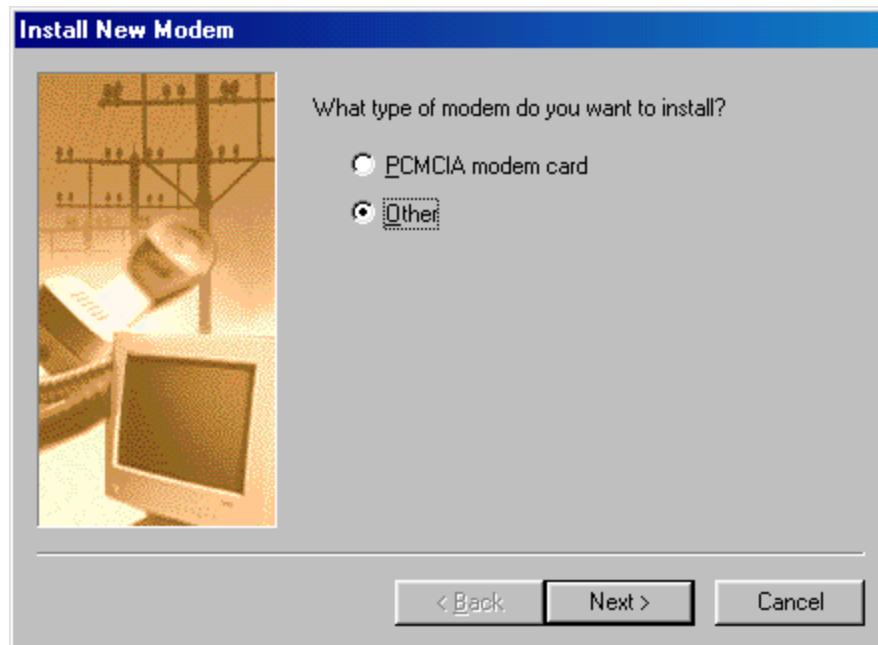
1. Close all applications.
2. Choose *Start > Settings > Control Panel* to open the Control Panel window.
3. Double-click on *Modems* to open the Modem Properties window.

Note: If no modems are currently installed on your computer, you will not see the Modem Properties window. In this case, skip to step 5.

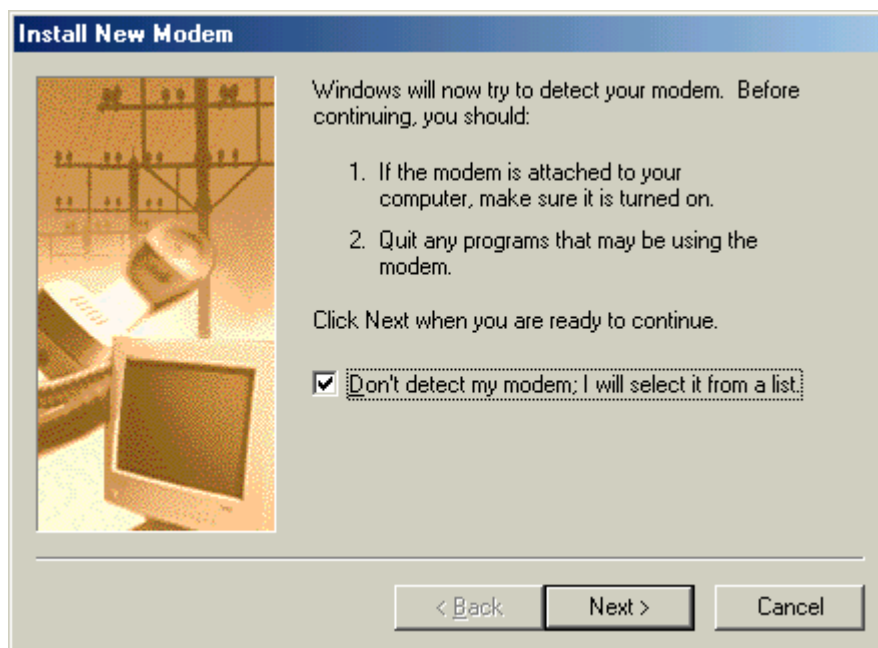
4. Click the *General* tab, and you will see all the modems installed on your computer. Click on Add... to open the Install New Modem window. This will begin the modem installation procedure. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*.



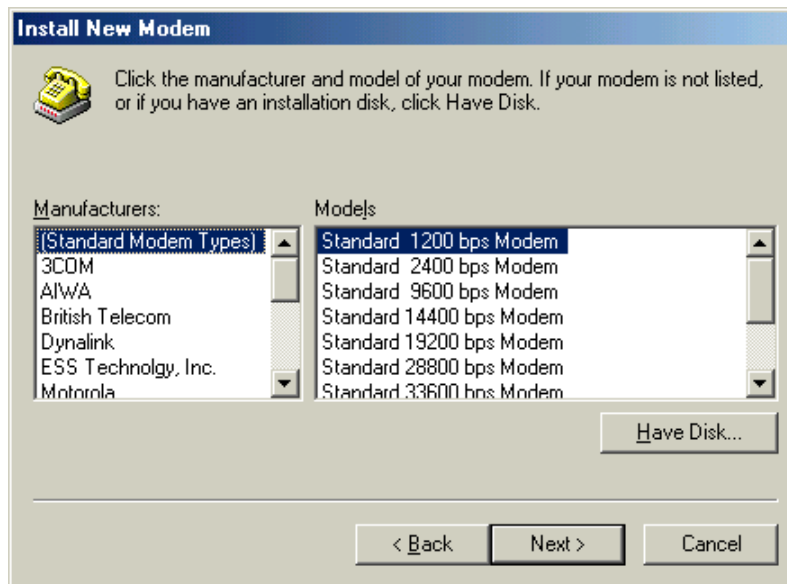
5. If you are using a laptop, you may be presented with the following screen. Select the *Other* radio button and click *Next >*.



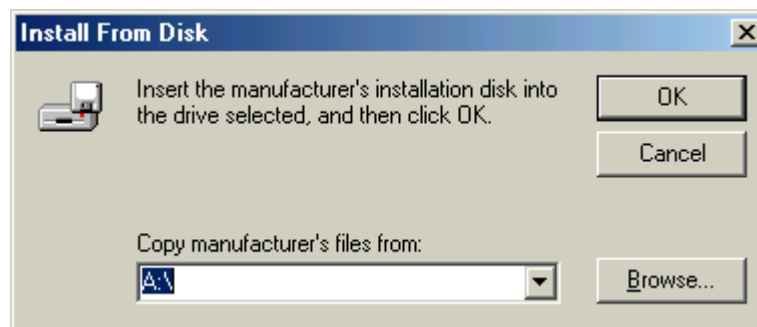
6. Choose the checkbox marked "Don't detect my modem; I will select it from a list." Then, click *Next >*.



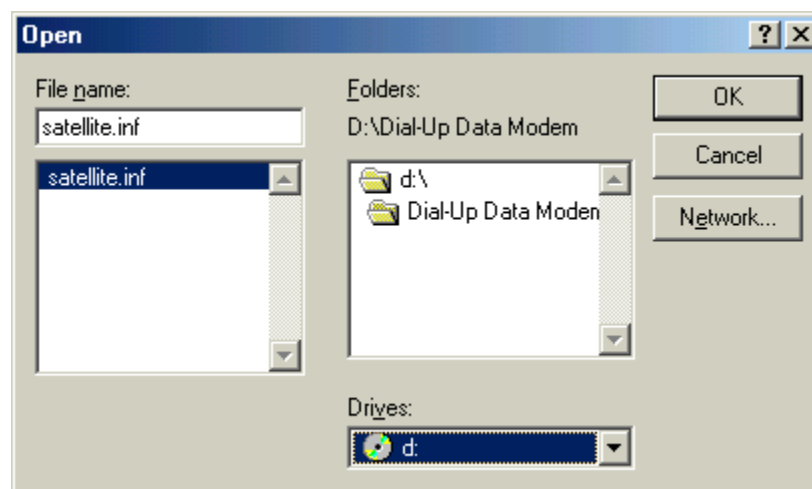
7. Click on Have Disk...



8. The default drive setting is A:\, which is the default floppy drive on most computers. Insert the Iridium World Data Services CD into your CD drive, and click Browse...

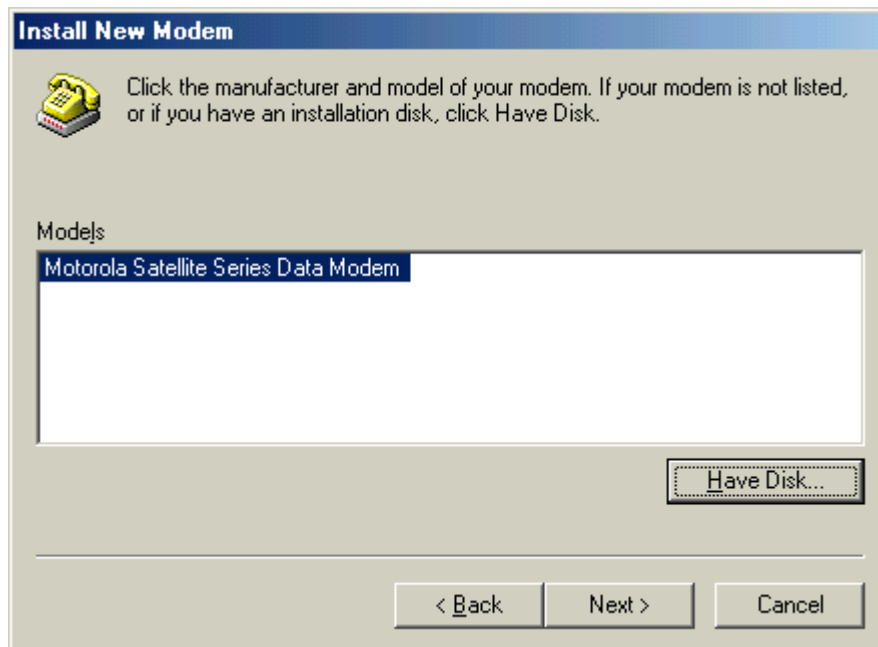


9. Browse to the *Dial-Up Data* directory on the CD, and then click OK.

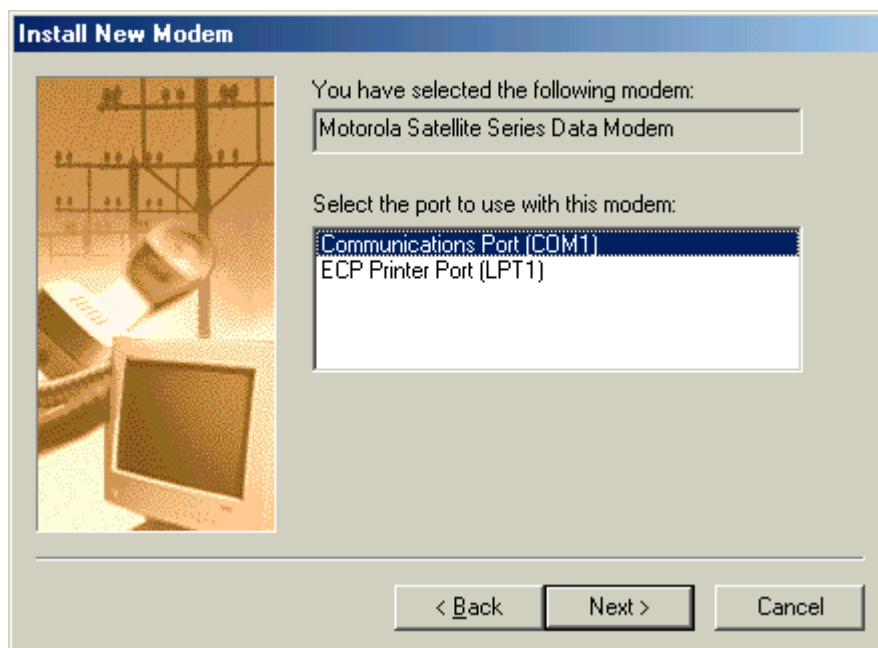




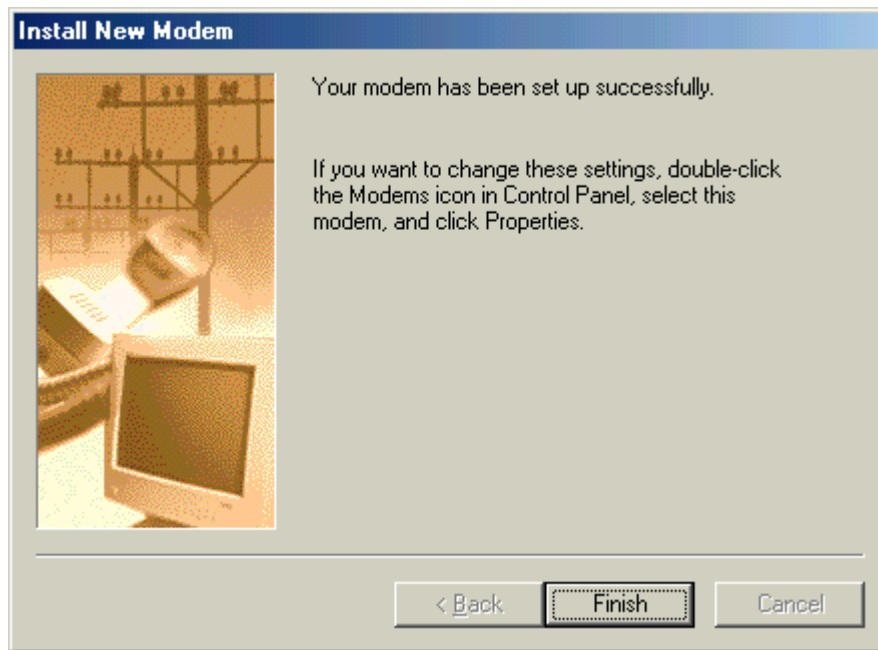
10. In the Install New Modem window, select the *Motorola Satellite Series Data Modem* and click *Next >*.



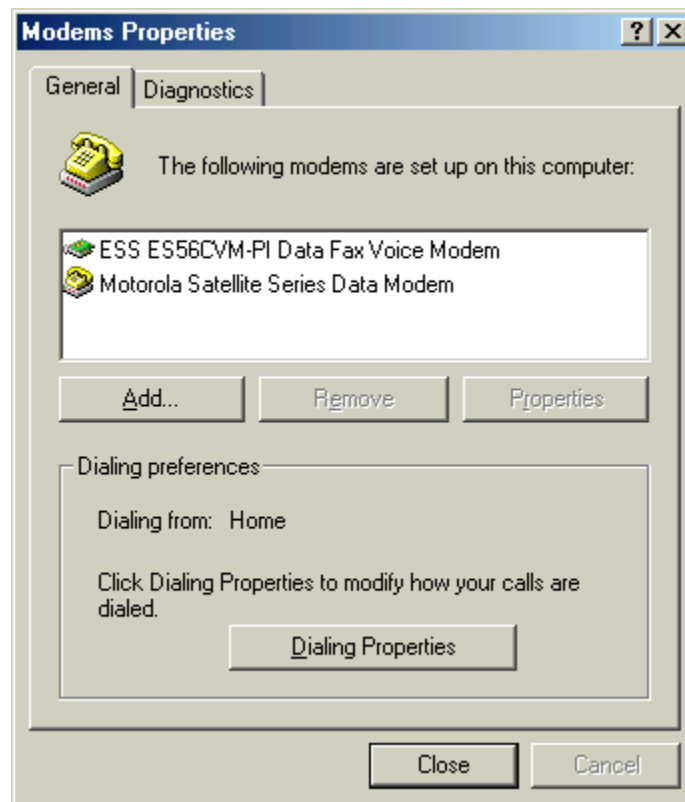
11. Select an available Communications Port (or COM Port) on which to install the modem (e.g., COM1), and click *Next >*. This is the port to which you will connect your Iridium phone.



12. Click *Finish*.



13. Click either *Close* or *OK* to close the Modem Properties window.



14. You have now completed the installation of the Motorola Satellite Series Data Modem. Continue with section [3.1.2](#).

### 3.1.2 Configure Dial-Up Networking – Windows 95/98/Me

In order to use your Iridium handset for dial-up networking, you need to create a new dial-up networking connection.

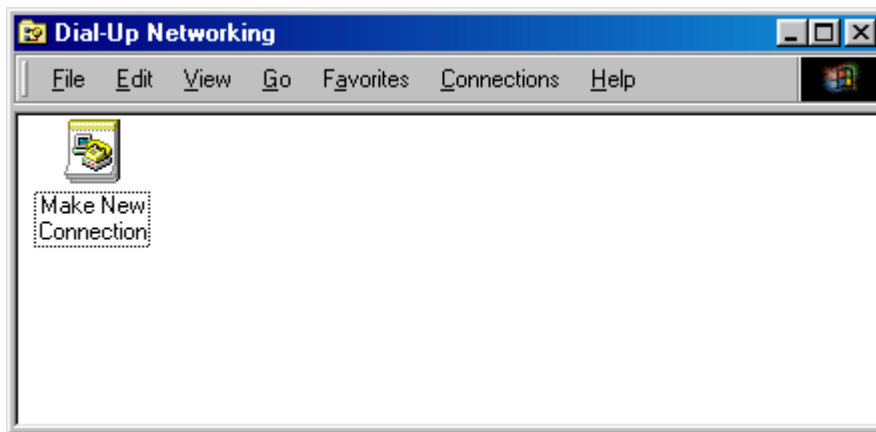
In Windows 95: Choose *Start > Programs > Accessories > Dial-Up Networking*

In Windows 98/Me: Choose *Start > Programs > Accessories > Communications > Dial-Up Networking*

In the Dial-Up Networking window, you can modify an existing connection type or create a new connection type. Unless you are comfortable using the dial-up networking options, we recommend that you create a new connection type for Dial-Up Data.

#### To Create a New Connection Type:

1. In the Dial-Up Networking window, double-click *Make New Connection*. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*.



2. In the Make New Connection window, enter a connection name and select *Motorola Satellite Series Data Modem* from the device list. For example, if you are creating a connection to your ISP and your ISP is called Saturn Internet, you might name your connection "Iridium Saturn." Click *Next >*.



3. In the Make a New Connection window, you must do the following:

- In the *Telephone number* box, enter the telephone number you wish to use for your connection. **Enter the number in international dialing format:**

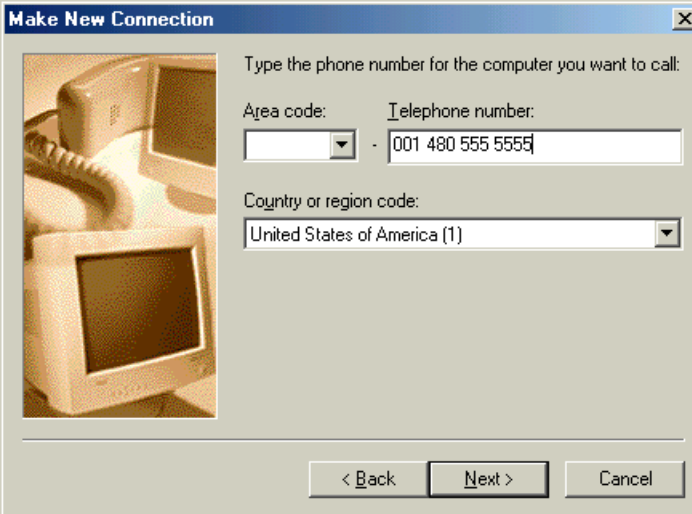
00 + Country Code + Area Code/Phone Number.

For example, if you are dialing an ISP in Tempe, Arizona, USA, you would enter 00 1 480 555 5555, where 1 is the country code and 480.555.5555 is the ISP's telephone number. *Please note that this is not a valid telephone number!*

**Note:** This is the same dialing pattern used for voice calls. In fact, you can verify that you are dialing the correct number for your ISP by dialing the number as a voice call on your satellite phone. You should hear your ISP's modem tones if dialed properly.

- Leave the *Area Code* box blank

Click *Next* >.



**Make New Connection**

Type the phone number for the computer you want to call:

Area code:  Telephone number:

Country or region code:

< Back Next > Cancel

4. Click *Finish* to save your new Dial-Up Networking connection.



**Make New Connection**

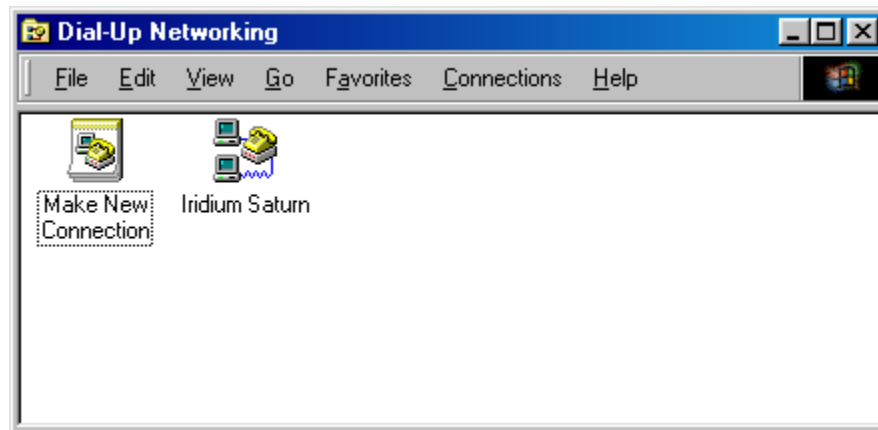
You have successfully created a new Dial-Up Networking connection called:

Click Finish to save it in your Dial-Up Networking folder. Double-click it to connect.

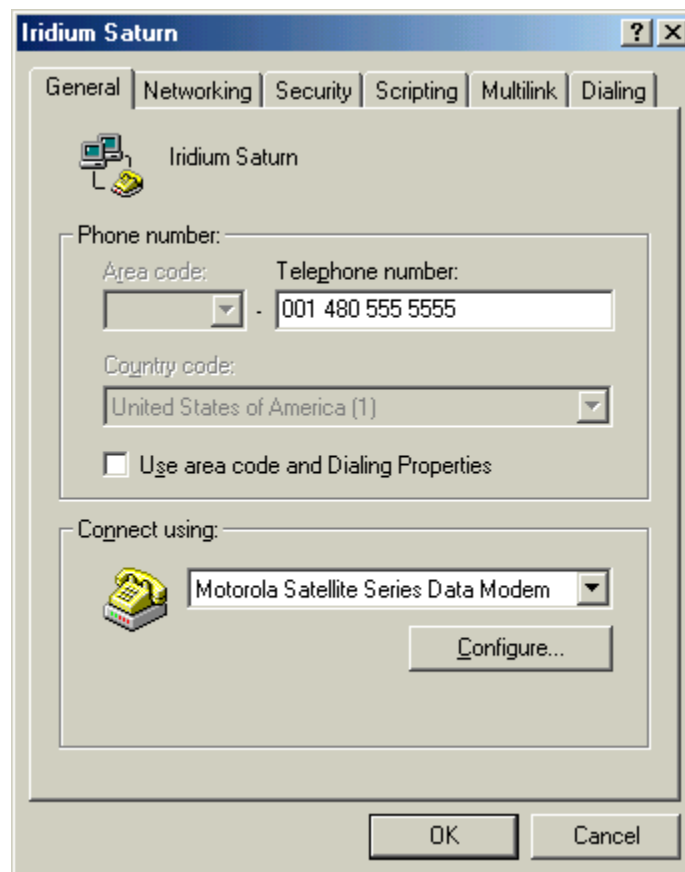
To edit this connection later, click it, click the File menu and then click Properties.

< Back Finish Cancel

5. In the Dial-Up *Networking* window, right click on your new dial-up connection and select *Properties*.



6. Upon selecting *Properties*, you will see a window similar to the one shown below. Select the *General* tab, and then de-select the check box for “*Use area code and Dialing Properties.*” Also, verify that you have entered the correct phone number. Set up the parameters for the rest of the menus (for example, *Networking*) as required by your ISP.



7. Click *OK* to return to the Dial-up Networking window. Close the Dial-up Networking window.
8. You have now completed the configuration of Dial-Up Networking. To connect your hardware and initiate a dial-up data call, continue with section [4](#).

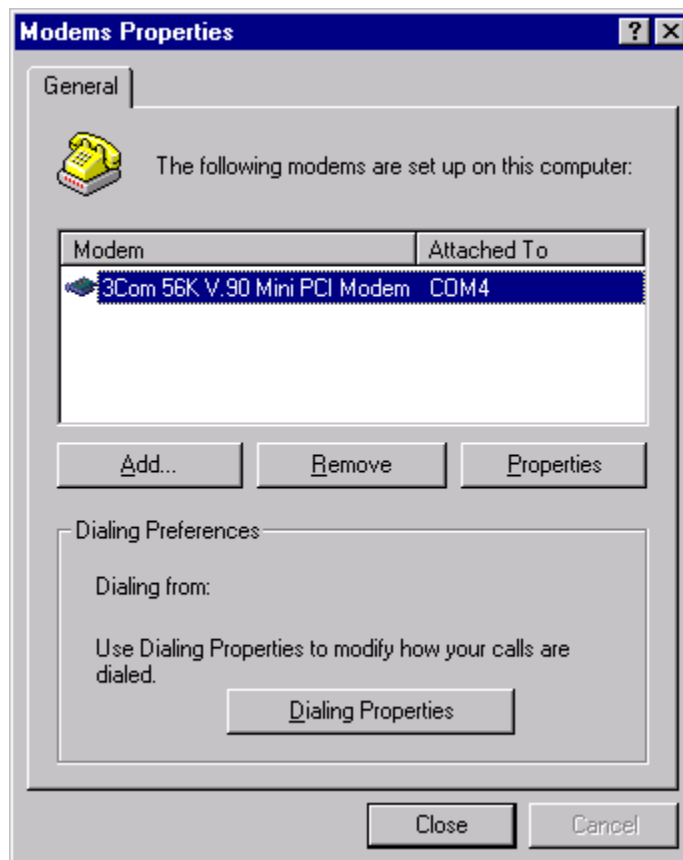
## 3.2 Windows NT4.0 Setup

In order to install the modem driver and configure dial-up networking, you will need the following:

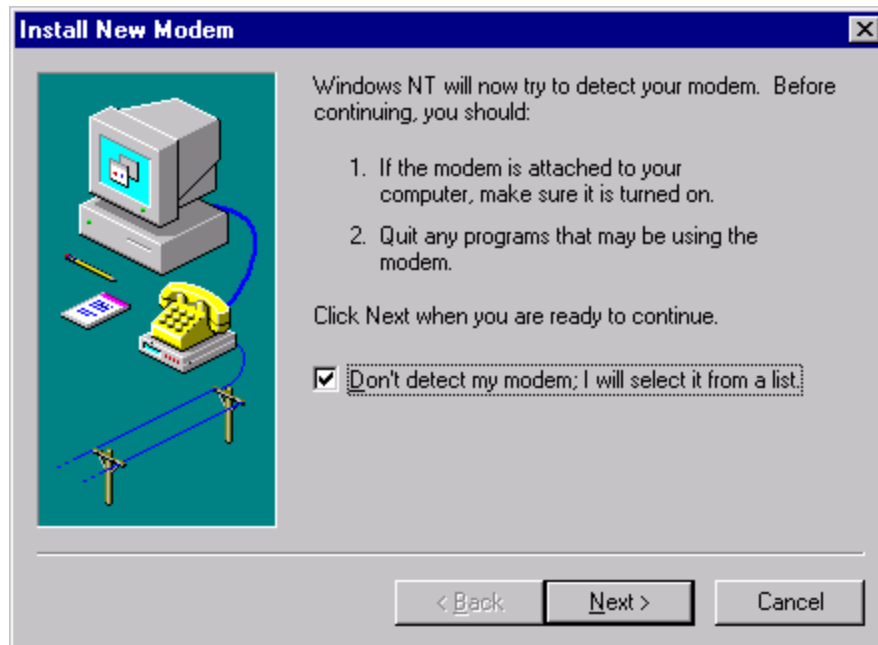
- ✓ The Iridium World Data Services CD
- ✓ An available communications port on your computer (e.g., COM1)
- ✓ Administrator privileges for Windows NT4.0

### 3.2.1 Install the Modem Driver – Windows NT4.0

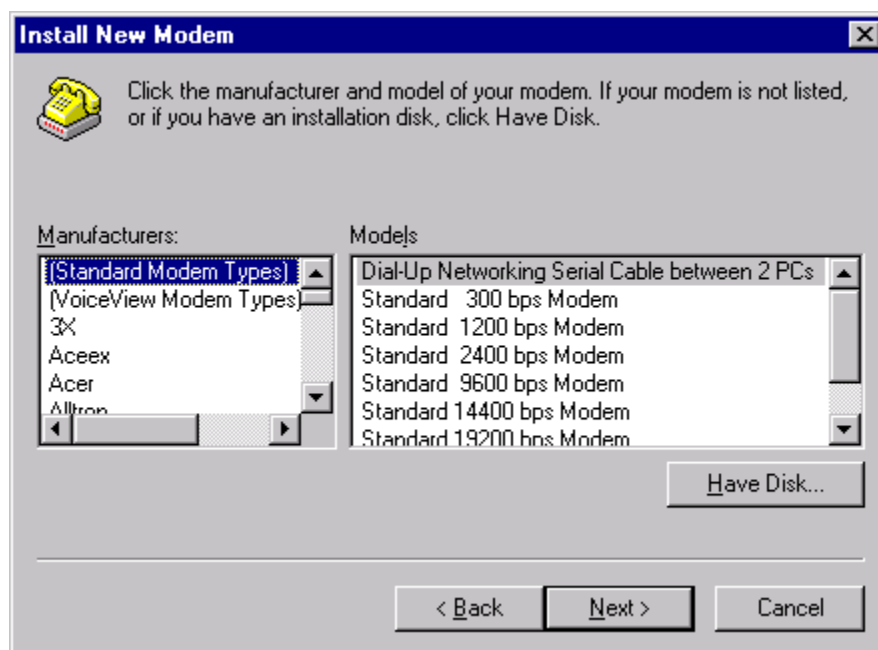
1. Close all applications.
2. Choose *Start > Settings > Control Panel* to open the Control Panel window.
3. Double click on *Modems* to open the Modems Properties window.
4. Click the *General* tab, and you will see all the modems installed on your computer. Click on *Add...* to open the Install New Modem window. This will begin the modem installation procedure. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*.



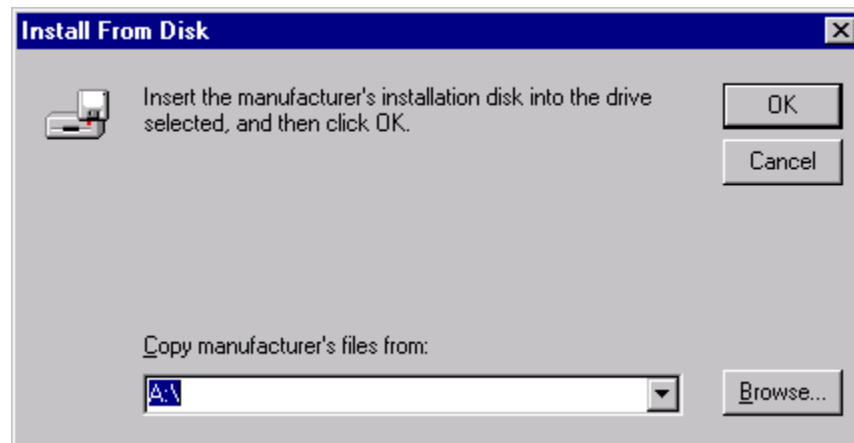
5. Choose the checkbox marked "Don't detect my modem; I will select it from a list." Then, click *Next >* to open the Install New Modem window.



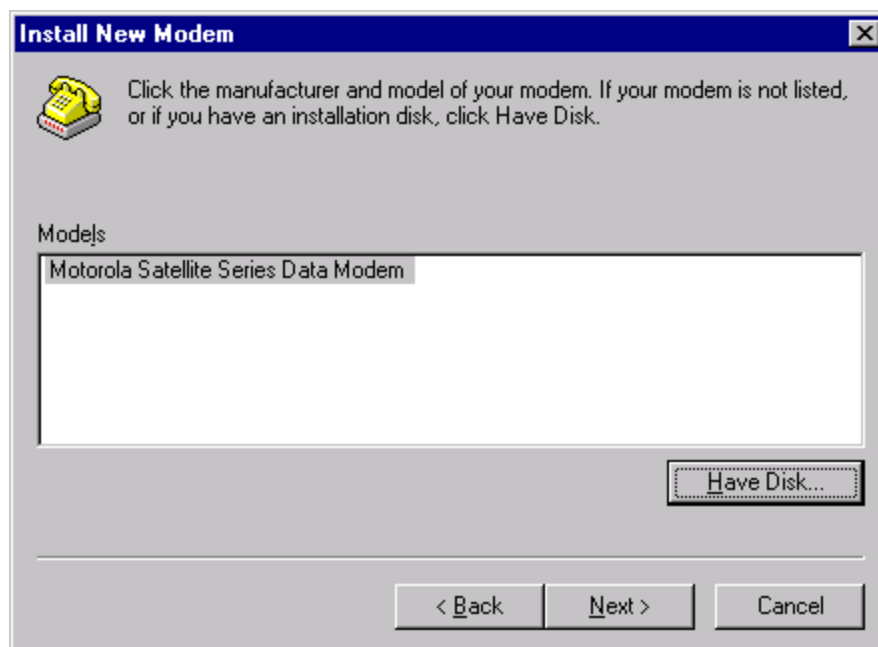
6. Click on *Have Disk...* to open the Install From Disk window.



7. The default drive setting is A:\, which is the default floppy drive on most computers. Insert the Iridium World Data Services CD into your CD drive, and browse to the *Dial-Up Data* directory on the CD. Click *OK*.

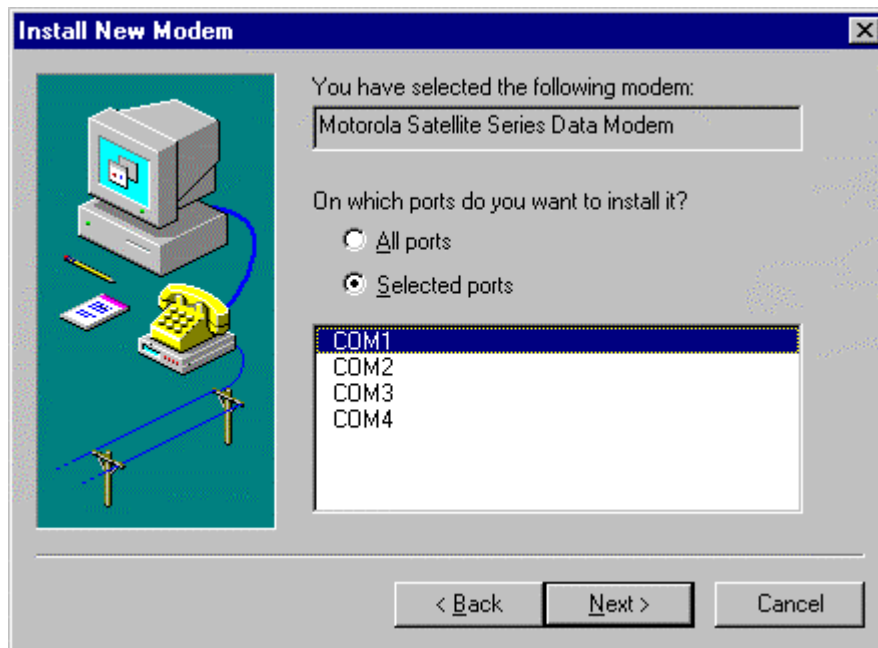


8. In the Install New Modem window, select the Motorola Satellite Series Data Modem and click *Next >*.





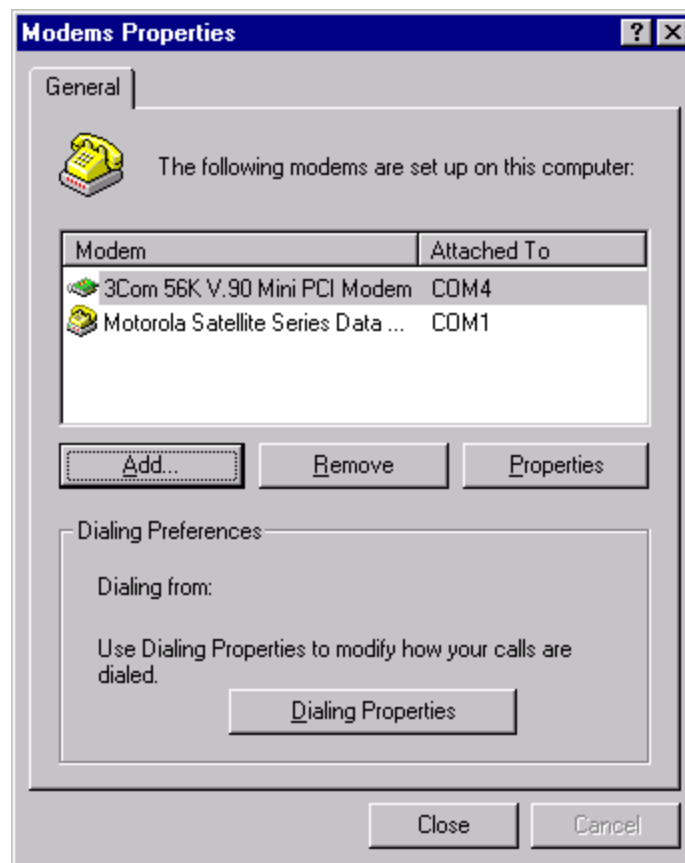
9. Click the "Selected ports" radio button, and select an available Communications Port (or COM Port) on which to install the modem (e.g., COM1) and click *Next >*. This is the port to which you will connect your Iridium phone.



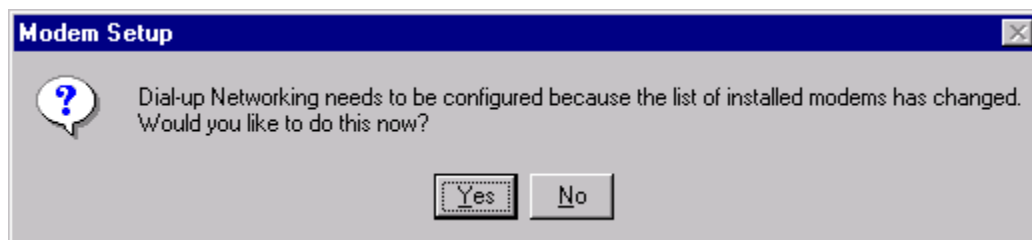
10. Click *Finish* to close the Install New Modem window.



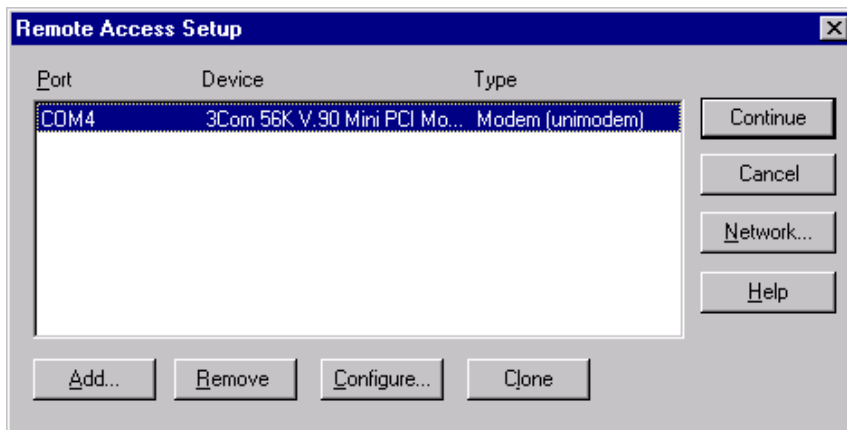
11. Click *Close* to close the Modems Properties window.



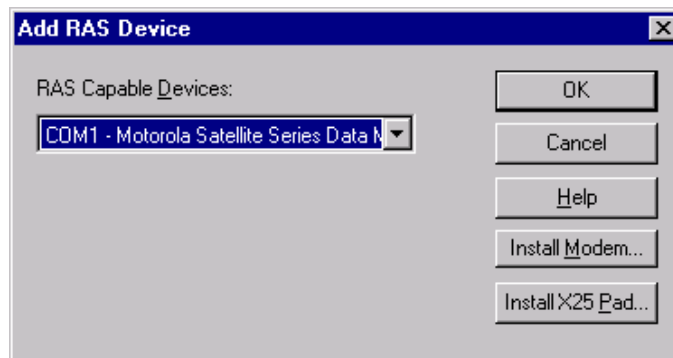
12. The Modem Setup window appears and asks if you would like to configure Dial-Up Networking. Click *Yes*.



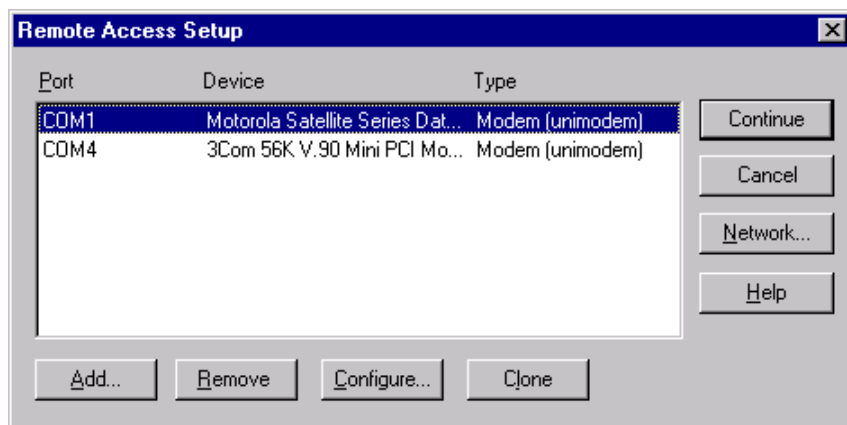
13. The Remote Access Setup window appears. Click *Add* to continue. *Note: If a modem is already installed on the COM port that you would like to use for the Motorola Satellite Series Data Modem, select the modem in the list and click Remove.*



14. Select the Motorola Satellite Series Data Modem from the list of RAS capable devices. Click *OK* to add the entry to the Remote Access Setup list.



15. The new entry is added to the list of modems. Click *Continue*.



16. When the computer asks if you would like to restart the computer, click *Yes*.
17. You have now completed the installation of the Motorola Satellite Series Data Modem. Continue with section [3.2.2](#).

### 3.2.2 Configure Dial-Up Networking – Windows NT4.0

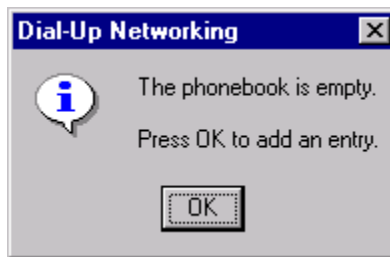
In order to use your Iridium handset for dial-up networking, you need to create a new dial-up networking connection.

In the Dial-Up Networking window, you can modify an existing connection type or create a new connection type. Unless you are comfortable using the dial-up networking options, we recommend that you create a new connection type for Dial-Up Data.

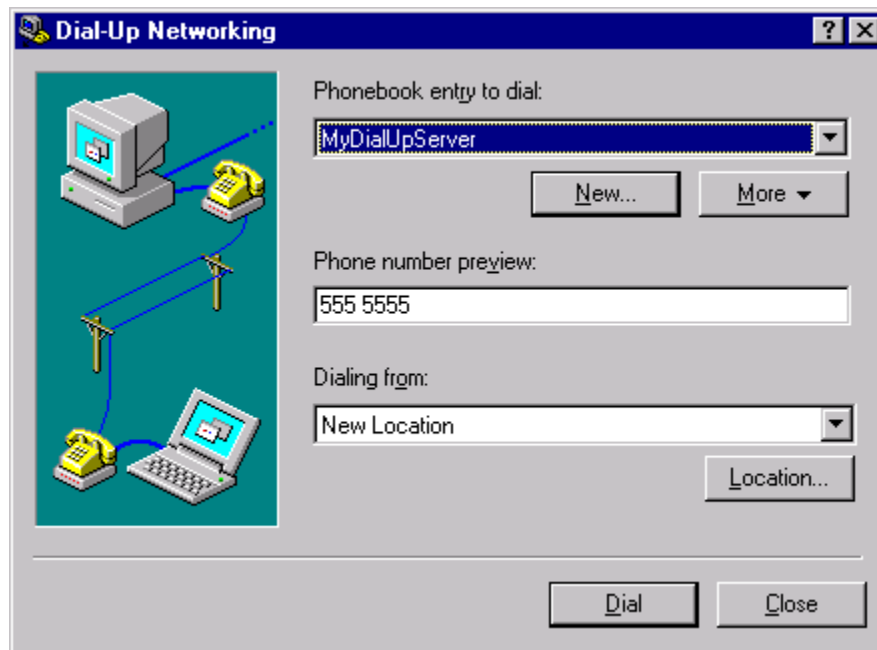
#### To Create a New Connection Type:

There are two possible sequences of windows that could arise depending on whether or not the New Phonebook Entry Wizard has previously been disabled. The following instructions assume that the wizard is *not* used. If you are using the Wizard, use the information from the following instructions to populate the Wizard screens.

1. Choose *Start > Programs > Accessories > Dial-Up Networking* to open the Dial-Up Networking window. If Dial-Up Networking has no “phonebook entries”, the following window will appear. Click *OK* if this window appears.



2. If a phonebook entry already exists, a window similar to the following will appear. Click *New*.



3. The New Phonebook Entry window appears. You must do the following:

- In the *Entry name* box, enter a connection name. For example, if you are creating a connection to your Internet Service Provider, and your ISP is called "Saturn Internet", you might name your connection "Iridium Saturn."
- In the *Phone number* box, enter the telephone number you wish to use for your connection. **Enter the number in international dialing format:**

00 + Country Code + Area Code/Phone Number.

For example, if you are dialing an ISP in Tempe, Arizona, USA, you would enter 00 1 480 555 5555, where 1 is the country code and 480.555.5555 is the ISP's telephone number. *Please note that this is not a valid telephone number!*

**Note:** This is the same dialing pattern used for voice calls. In fact, you can verify that you are dialing the correct number for your ISP by dialing the number as a voice call on your satellite phone. You should hear your ISP's modem tones if dialed properly.

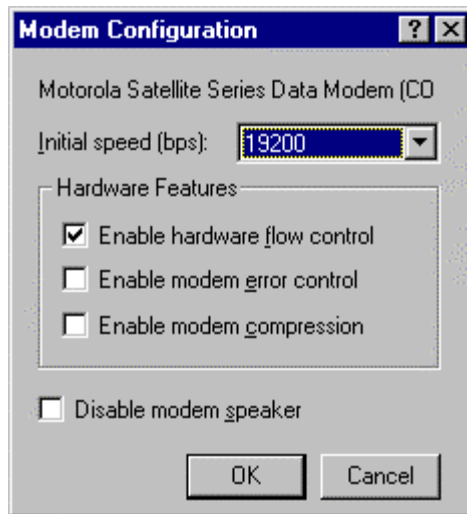
- De-select the "Use Telephony dialing properties" check-box.
- In the *Dial using* list, select "Motorola Satellite Series Data Modem".

Click *Configure...*

The screenshot shows the 'New Phonebook Entry' dialog box with the following details:

- Tab:** Basic
- Entry name:** Iridium Saturn
- Comment:** (empty)
- Phone number:** 001 480 555 5555
- Alternates...** button
- Use Telephony dialing properties:** ☐ (unchecked)
- Dial using:** Motorola Satellite Series Data Modem
- Configure...** button
- Use another port if busy:** ☐ (unchecked)
- Buttons:** OK, Cancel

4. Verify the proper settings according to the window below. Click *OK* to save any changes. Upon returning to the New Phonebook Entry window, click *OK*.



5. Close the Dial-Up Networking window.
6. You have now completed the configuration of Dial-Up Networking. To connect your hardware and initiate a dial-up data call, continue with section [4](#).

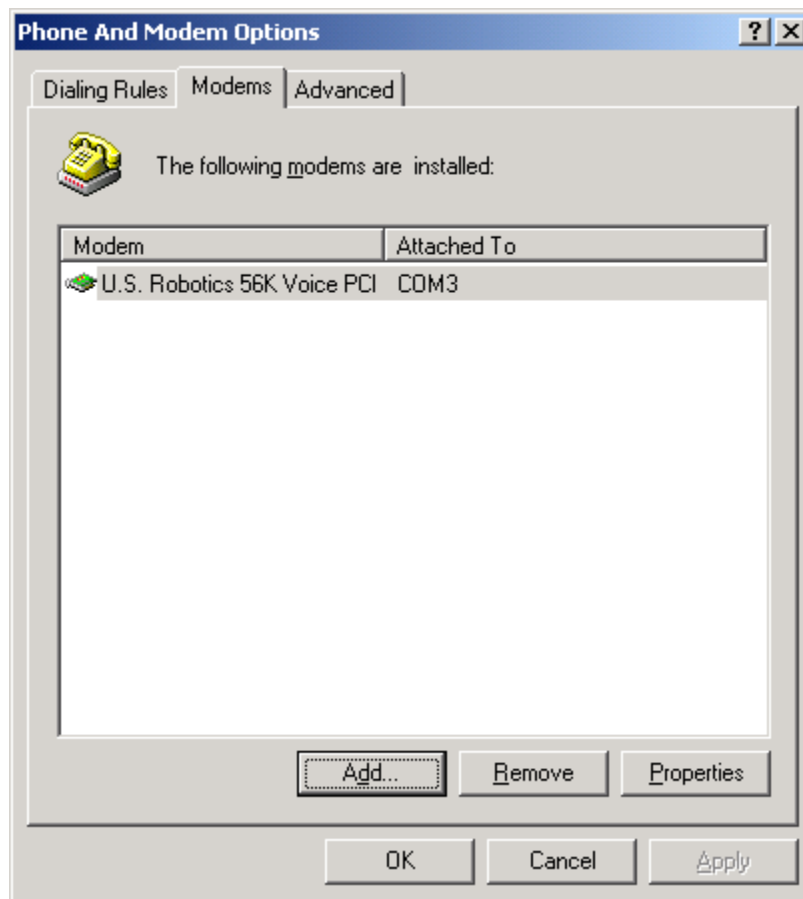
### 3.3 Windows 2000 Setup

In order to install the modem driver and configure dial-up networking, you will need the following:

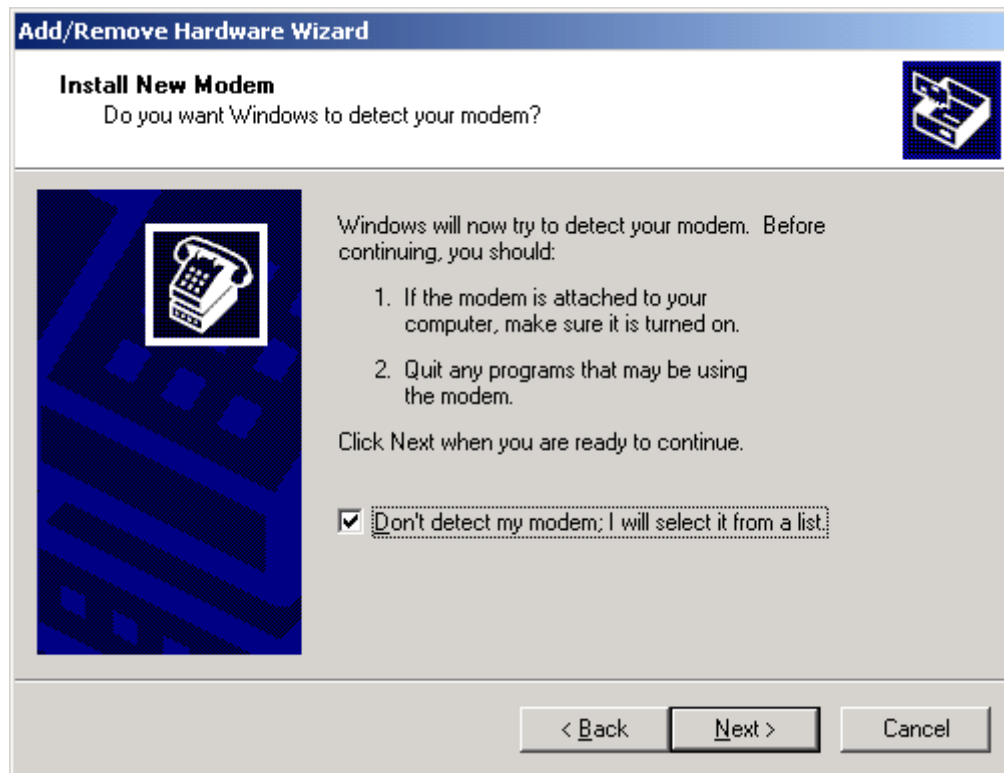
- ✓ The Iridium World Data Services CD
- ✓ An available communications port on your computer (e.g., COM1)
- ✓ Administrator privileges for Windows 2000

#### 3.3.1 Install the Modem Driver – Windows 2000

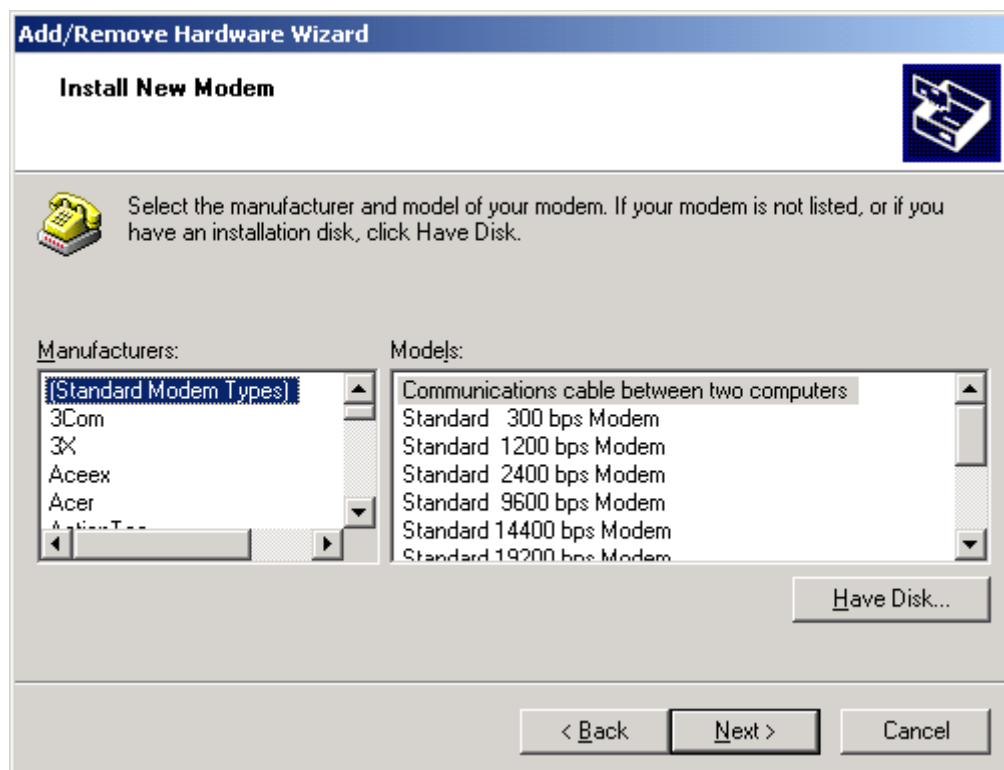
1. Close all applications
2. Choose *Start > Settings > Control Panel* to open the Control Panel window.
3. Double click on *Phone and Modem Options* to open the Phone and Modem Options window.
4. Click the Modems tab, and you will see all the modems installed on your computer. Click on *Add...* to open the Add/Remove Hardware Wizard for installing a new modem. This will begin the modem installation procedure. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*.



5. Choose the checkbox marked "Don't detect my modem; I will select it from a list." Then, click *Next >* to open the Install New Modem window of the Add/Remove Hardware Wizard.

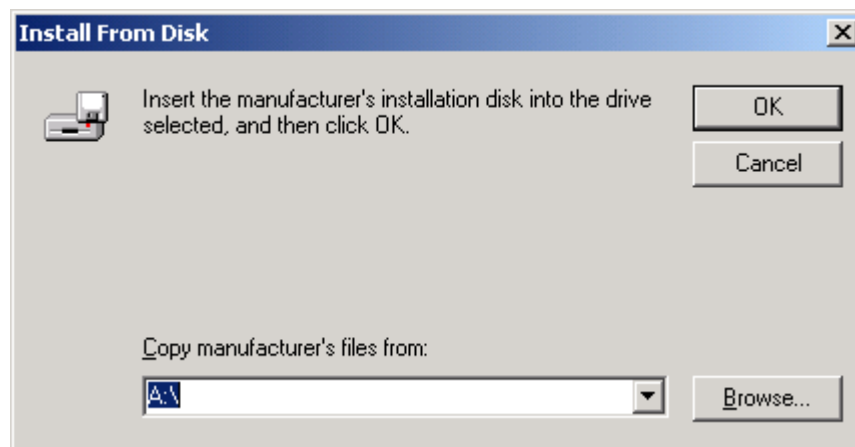


6. Click on *Have Disk...* to open the Install From Disk window.

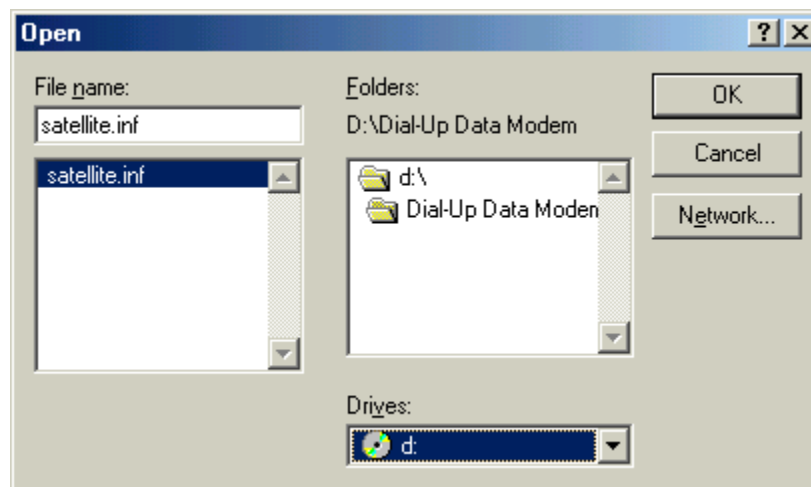




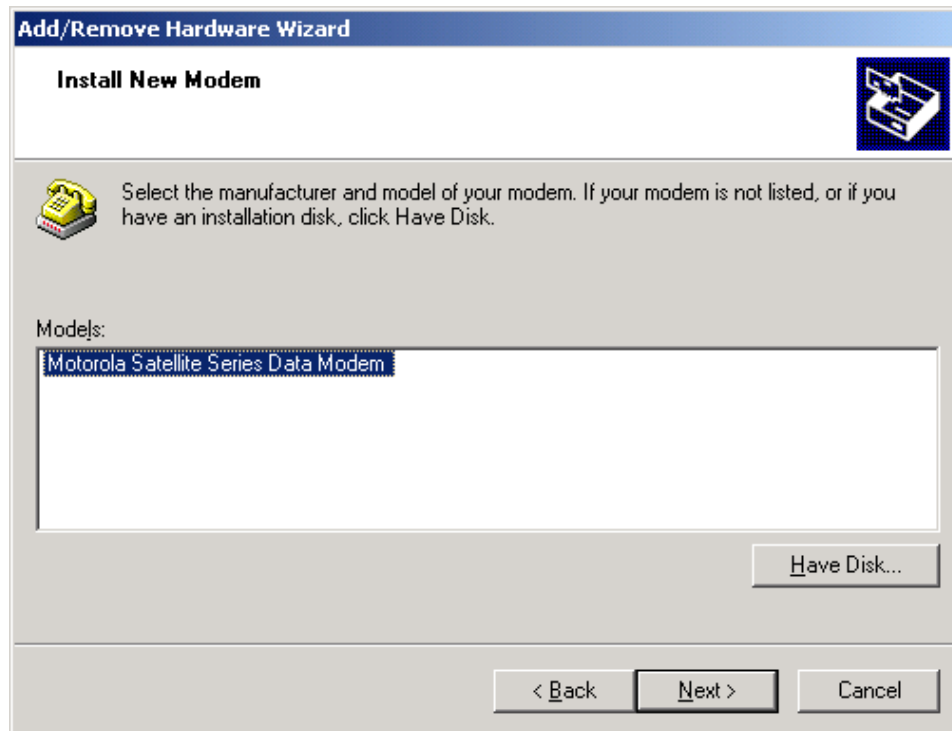
7. The default drive setting is A:\, which is the default floppy drive on most computers. Insert the Iridium World Data Services CD into your CD drive, and click *Browse...*



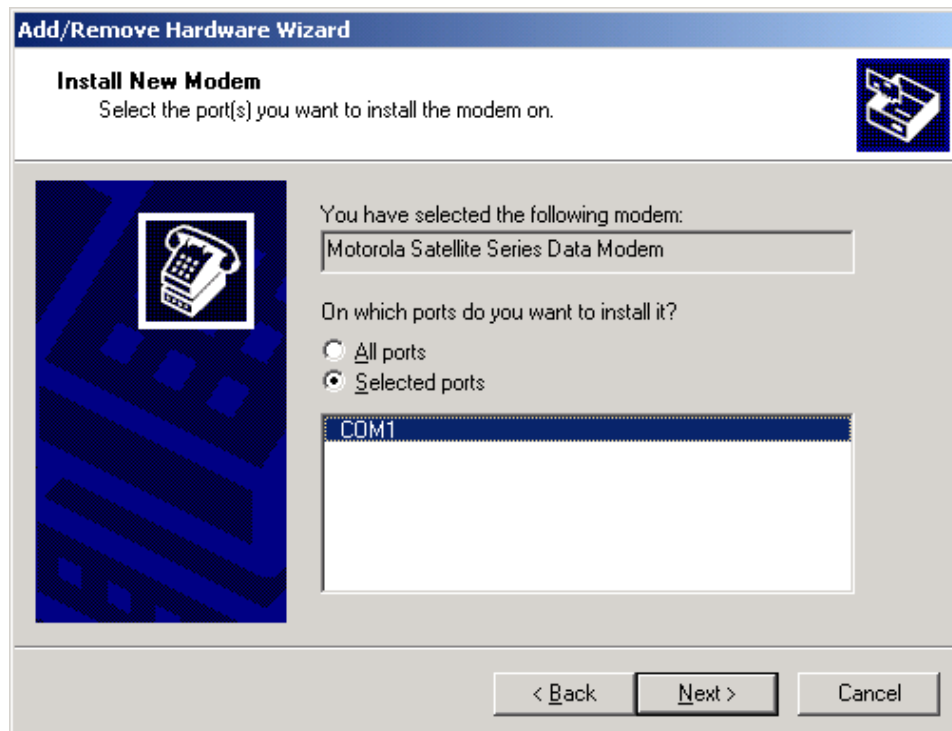
8. Browse to the *Dial-Up Data* directory on the CD, and then click *OK*.



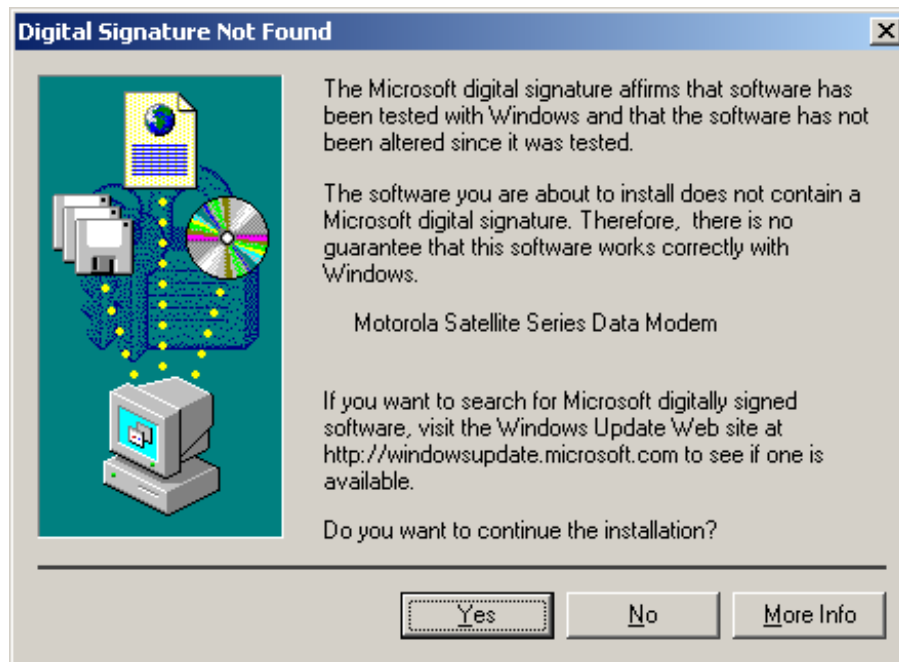
9. In the Install New Modem window, select the Motorola Satellite Series Data Modem and click *Next >*.



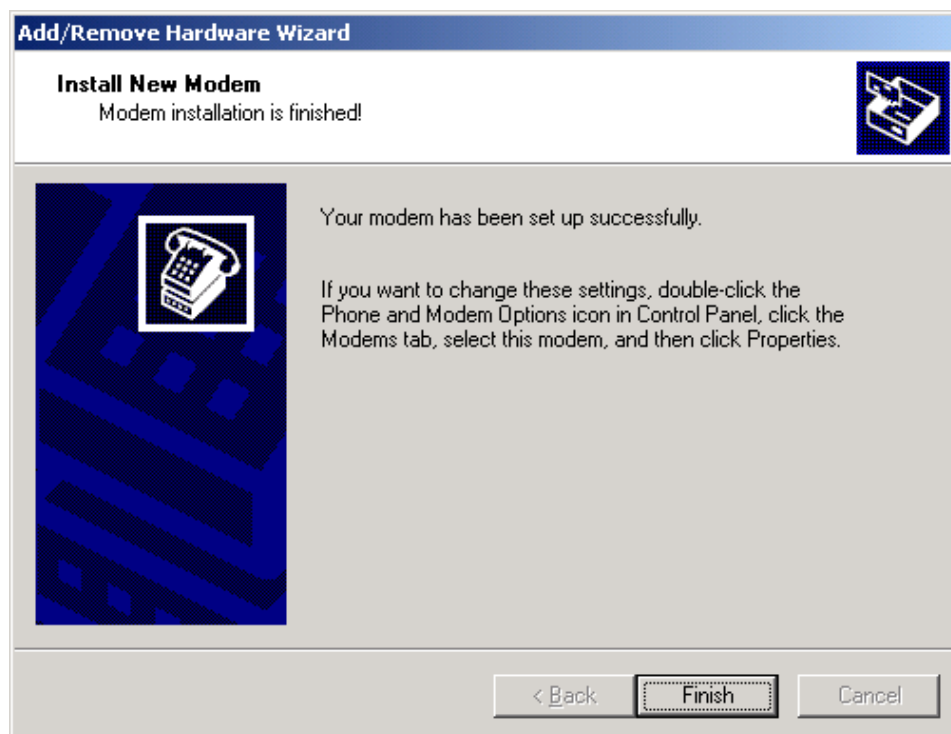
10. Click the "Selected ports" radio button, and select an available Communications Port (or COM Port) on which to install the modem (e.g., COM1). This is the port to which you will connect your Iridium phone. Click *Next >*.



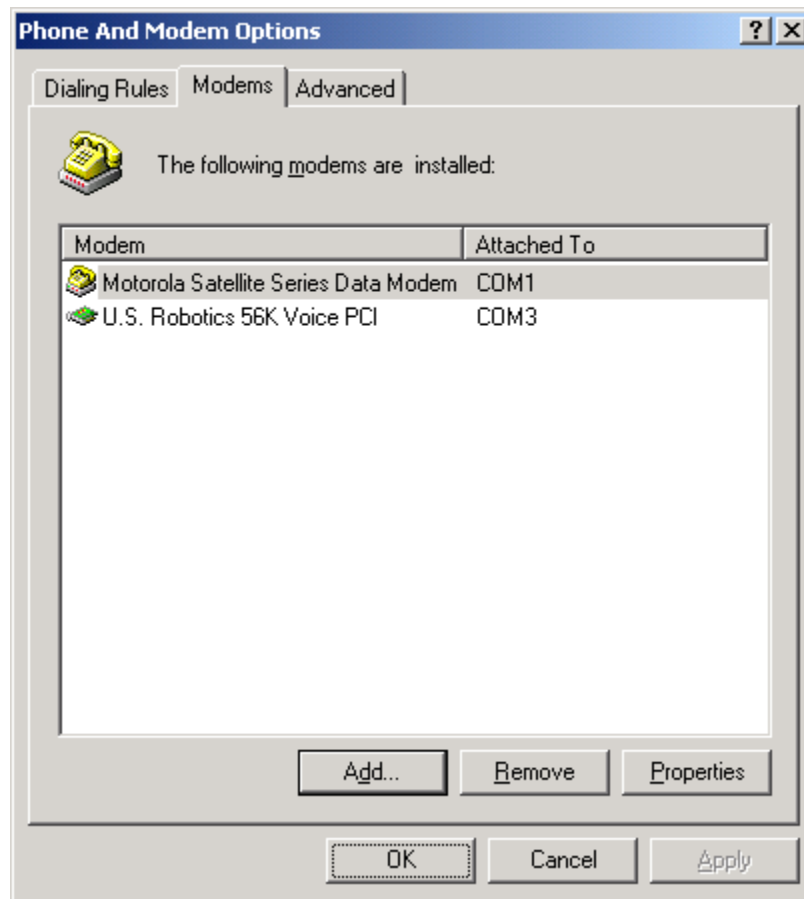
11. The following window will appear. Click Yes.



12. Click *Finish* to close the Install New Modem window.



13. Click *OK* to close the Phone and Modem Options window.



14. You have now completed the installation of the Motorola Satellite Series Data Modem. Continue with section [3.3.2](#).

### 3.3.2 Configure Dial-Up Networking – Windows 2000

In order to use your Iridium handset for dial-up networking, you need to create a new dial-up networking connection.

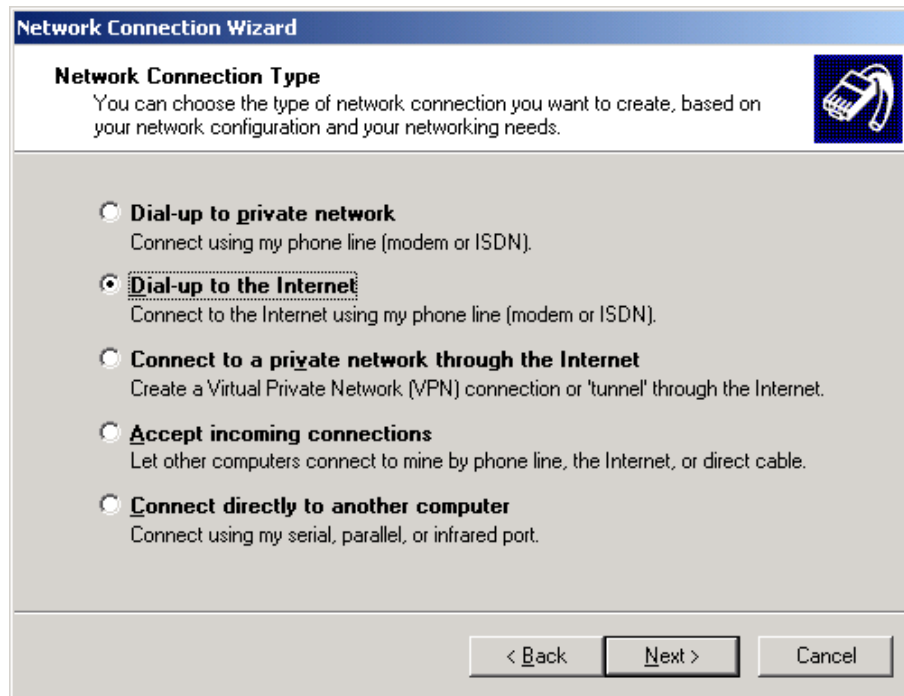
In the Network and Dial-Up Connections window, you can modify an existing connection type or create a new connection type. Unless you are comfortable using the dial-up networking options, we recommend that you create a new connection type for Dial-Up Data.

#### To Create a New Connection Type:

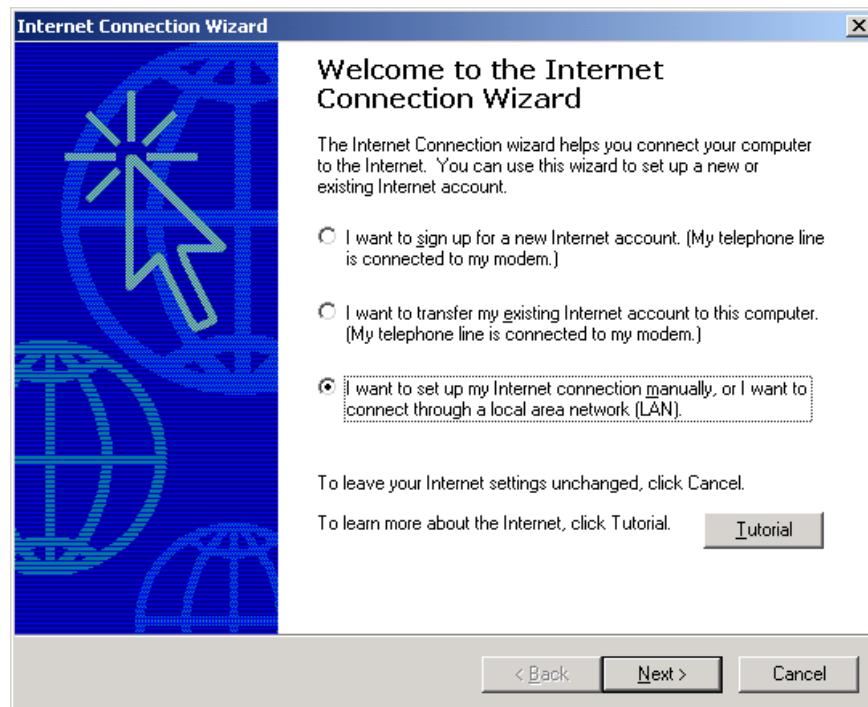
1. Choose *Start > Programs > Accessories > Communications > Network and Dial-up Connections* to open the Network and Dial-Up Connections window.
2. In the Network and Dial-Up Connections window, double-click *Make New Connection* to open the Network Connection Wizard. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*. To continue, click *Next >*.



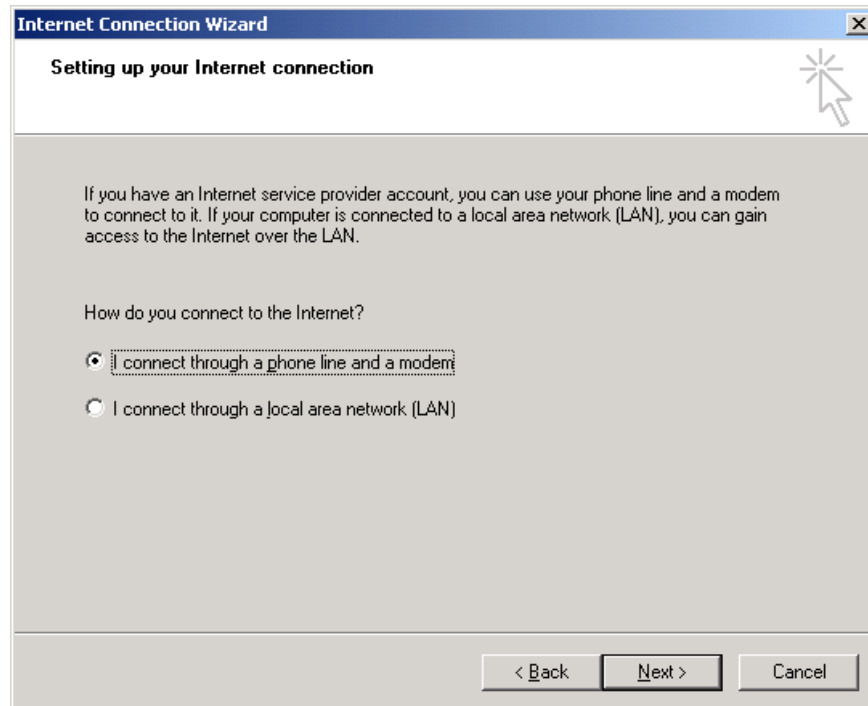
3. In the Network Connection Type window of the Network Connection Wizard, select the appropriate Dial-up connection type (either "Dial-up to private network" or "Dial-up to the Internet"). This example assumes you are creating a connection to your Internet Service Provider. Click *Next >*.



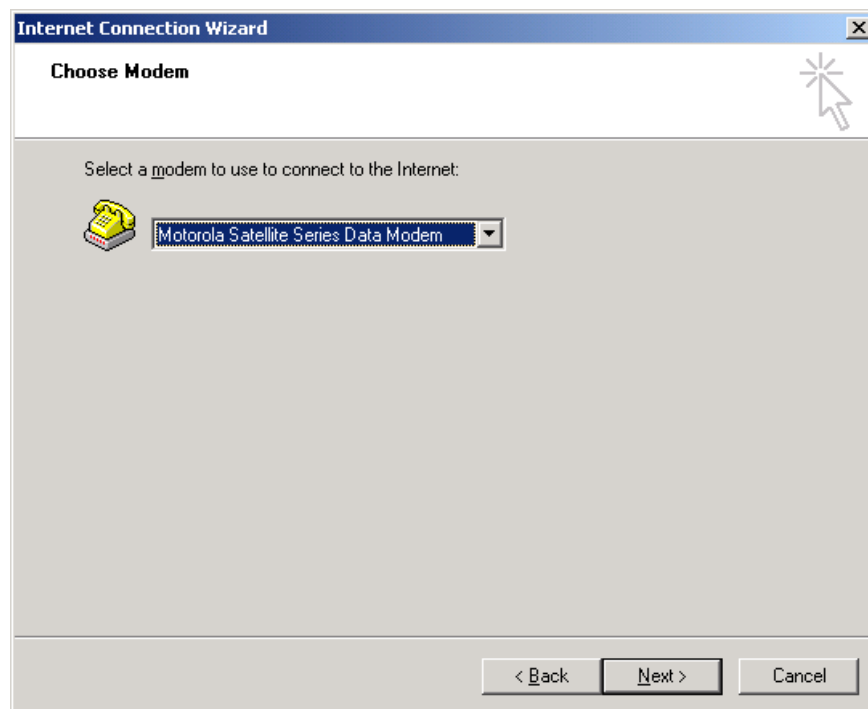
4. In the Internet Connection Wizard, select "I want to set up my Internet connection manually...". Click *Next >*.



5. In the Internet Connection Wizard, select "I connect through a phone line and a modem." Click *Next >*.



6. The following Internet Connection Wizard window appears only if you have more than one modem installed. If this window appears, choose the Motorola Satellite Series Data Modem from the drop down list. Then, click *Next >*.



7. In the Internet Connection Wizard window, you must do the following:

- In the *Telephone number* box, enter the telephone number you wish to use for your connection. **Enter the number in international dialing format:**

00 + Country Code + Area Code/Phone Number.

For example, if you are dialing an ISP in Tempe, Arizona, USA, you would enter 00 1 480 555 5555, where 1 is the country code and 480.555.5555 is the ISP's telephone number. *Please note that this is not a valid telephone number!*

**Note:** This is the same dialing pattern used for voice calls. In fact, you can verify that you are dialing the correct number for your ISP by dialing the number as a voice call on your satellite phone. You should hear your ISP's modem tones if dialed properly.

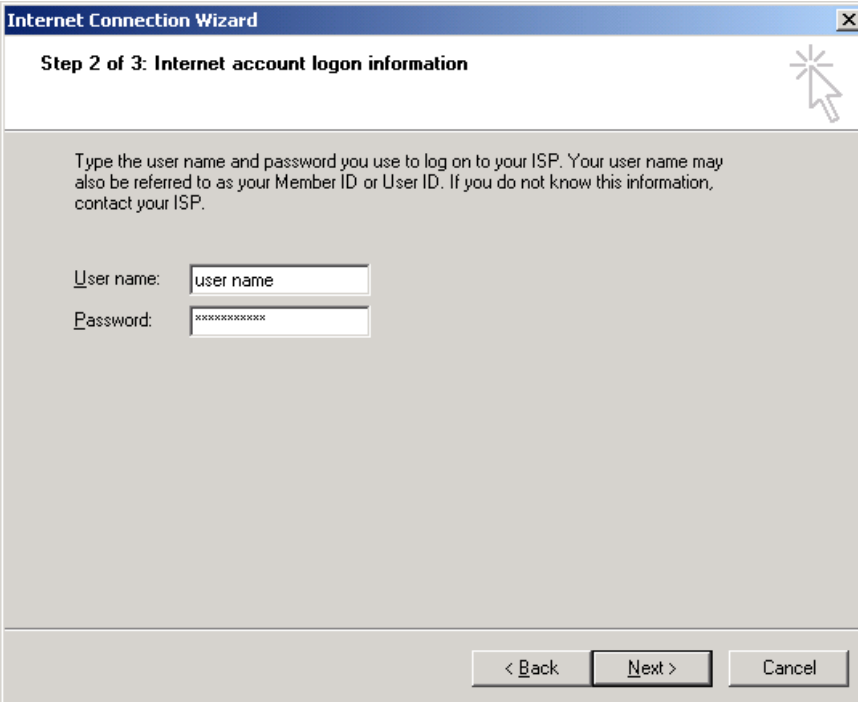
- De-select the checkbox for "Use area codes and dialing rules." (Note: This will "gray-out" the *Area code* and *Country/Region name and code* boxes. Because they are grayed-out, it does not matter what these boxes contain)

Click *Next >*.

The screenshot shows the 'Internet Connection Wizard' window, specifically 'Step 1 of 3: Internet account connection information'. The window has a title bar with a close button. Inside, there's a header area with a mouse cursor icon. The main content area has the instruction 'Type the phone number you dial to connect to your ISP.' Below this are three input fields: 'Area code:' (grayed out), 'Telephone number:' (containing '001 480 555 5555'), and 'Country/region name and code:' (a dropdown menu showing 'United States of America (1)'). Below these fields is an unchecked checkbox labeled 'Use area code and dialing rules'. At the bottom of the main area is a button labeled 'Advanced...'. At the very bottom of the window are three navigation buttons: '< Back', 'Next >', and 'Cancel'.

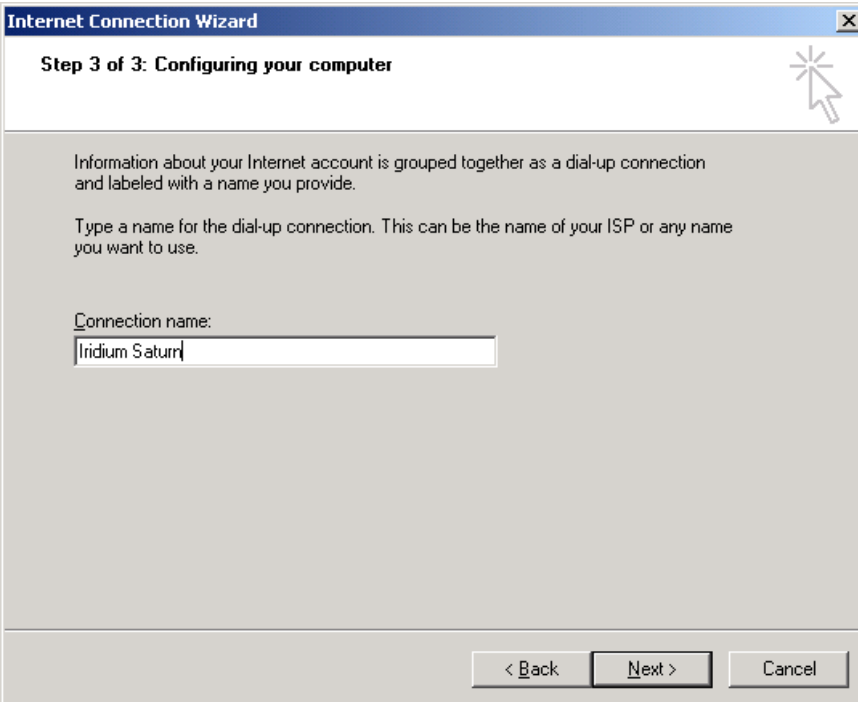


8. In the Internet Connection Wizard, enter your user name and password to access your ISP. Click *Next >*.



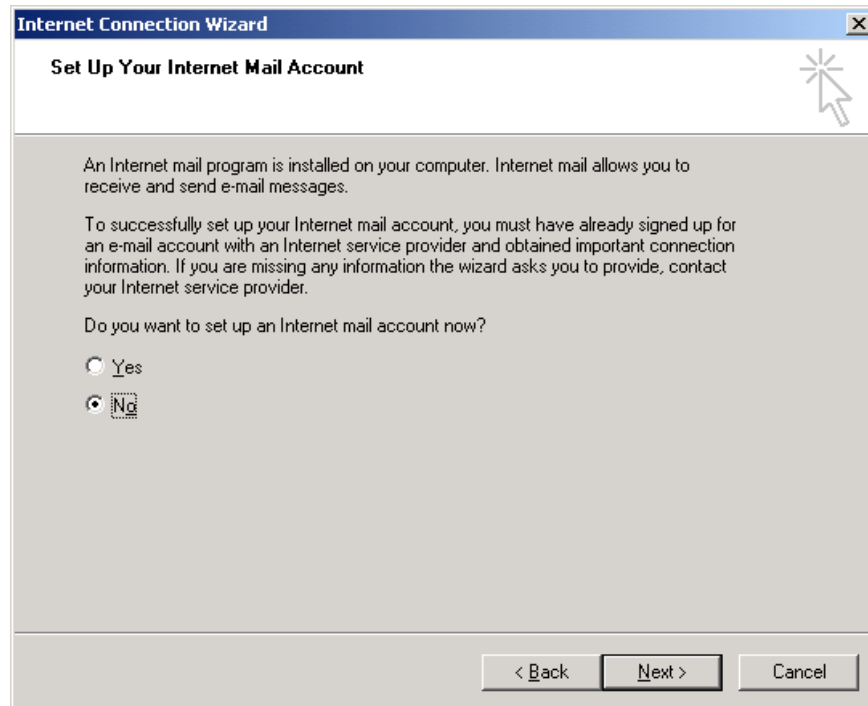
The screenshot shows the 'Internet Connection Wizard' window at 'Step 2 of 3: Internet account logon information'. The window has a blue title bar with the text 'Internet Connection Wizard' and a close button. Below the title bar, the step number and title are displayed. The main area contains instructions: 'Type the user name and password you use to log on to your ISP. Your user name may also be referred to as your Member ID or User ID. If you do not know this information, contact your ISP.' There are two input fields: 'User name:' with the text 'user name' and 'Password:' with masked characters 'xxxxxxxx'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A mouse cursor is pointing at the 'Next >' button.

9. In the Internet Connection Wizard, enter a connection name. For example, if you are creating a connection to your ISP and your ISP is called Saturn Internet, you might name your connection "Iridium Saturn." Click *Next >*.

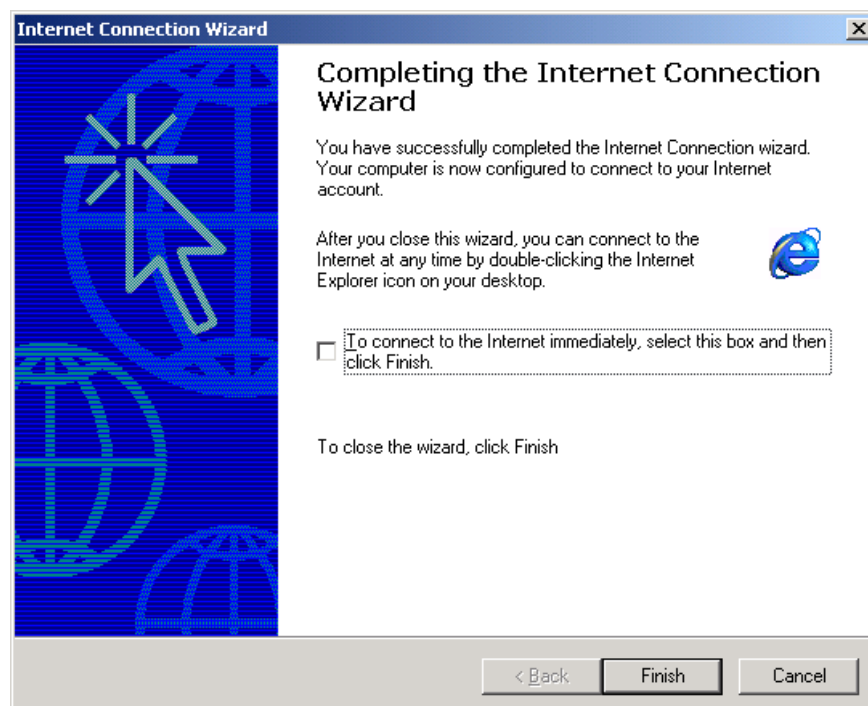


The screenshot shows the 'Internet Connection Wizard' window at 'Step 3 of 3: Configuring your computer'. The window has a blue title bar with the text 'Internet Connection Wizard' and a close button. Below the title bar, the step number and title are displayed. The main area contains instructions: 'Information about your Internet account is grouped together as a dial-up connection and labeled with a name you provide. Type a name for the dial-up connection. This can be the name of your ISP or any name you want to use.' There is one input field labeled 'Connection name:' with the text 'Iridium Saturn'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. A mouse cursor is pointing at the 'Next >' button.

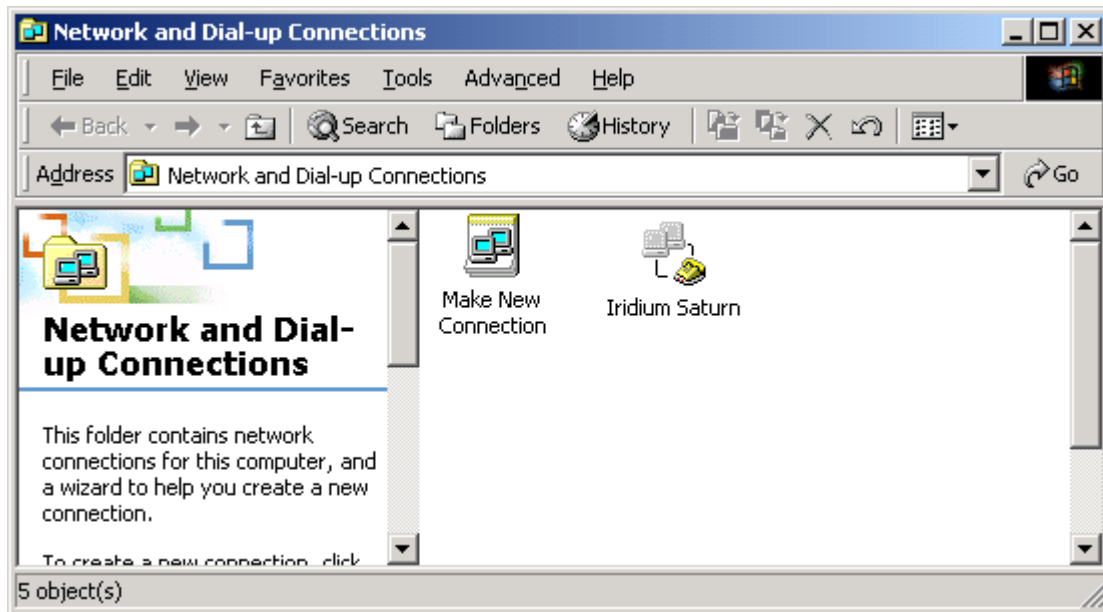
10. In the Internet Connection Wizard, if you have already configured your email (or you are not using Microsoft Outlook), select "No." Click *Next >*.



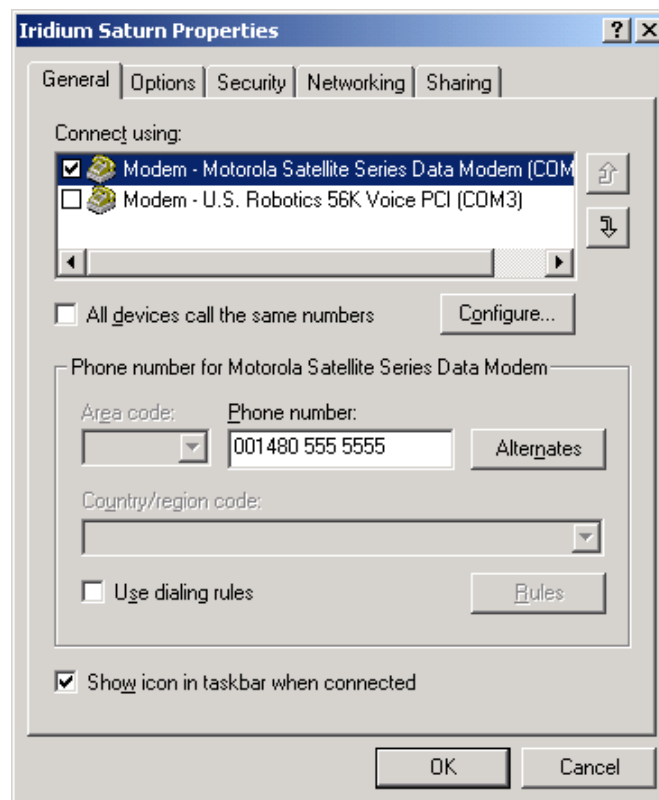
11. In the Internet Connection Wizard, de-select "To connect to the Internet immediately...". Click *Finish* to save your new connection.



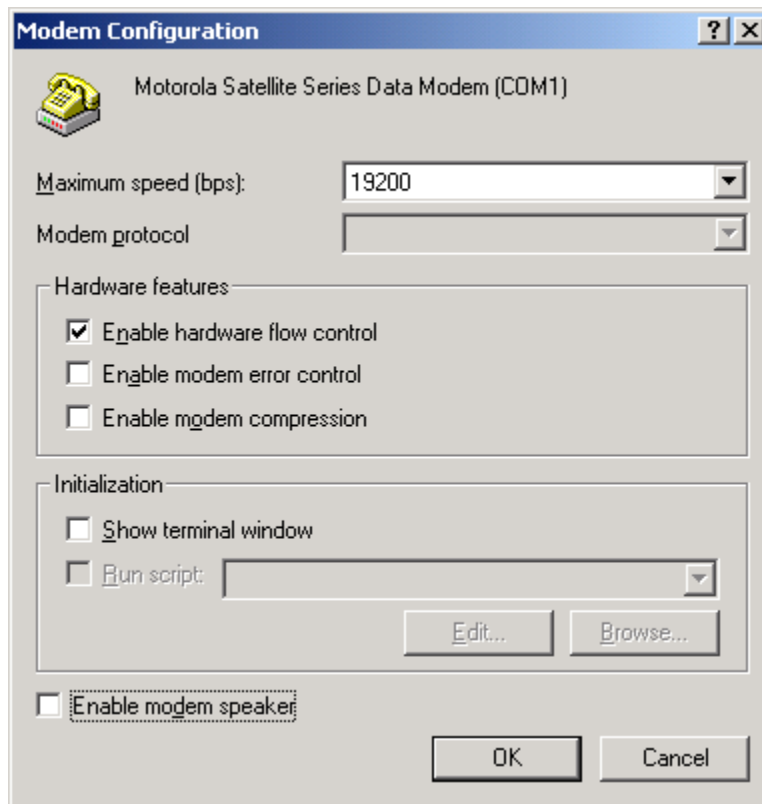
12. In the Dial-Up Networking window, right click on your new dial-up connection and select *Properties*.



13. Upon selecting *Properties*, you will see the window below. Select the *General* tab, and verify the settings with the figure below. Also, verify that you have entered the correct telephone number. (Note that your telephone number should be seen in place of 001 480 555 5555).



14. From the General menu, click *Configure...* to verify the proper settings. The settings should match the figure below. Click *OK* to return to the Properties window, and then click *OK* again to close the Properties window.



15. You have now completed the configuration of Dial-Up Networking. To connect your hardware and initiate a dial-up data call, continue with section [4](#).

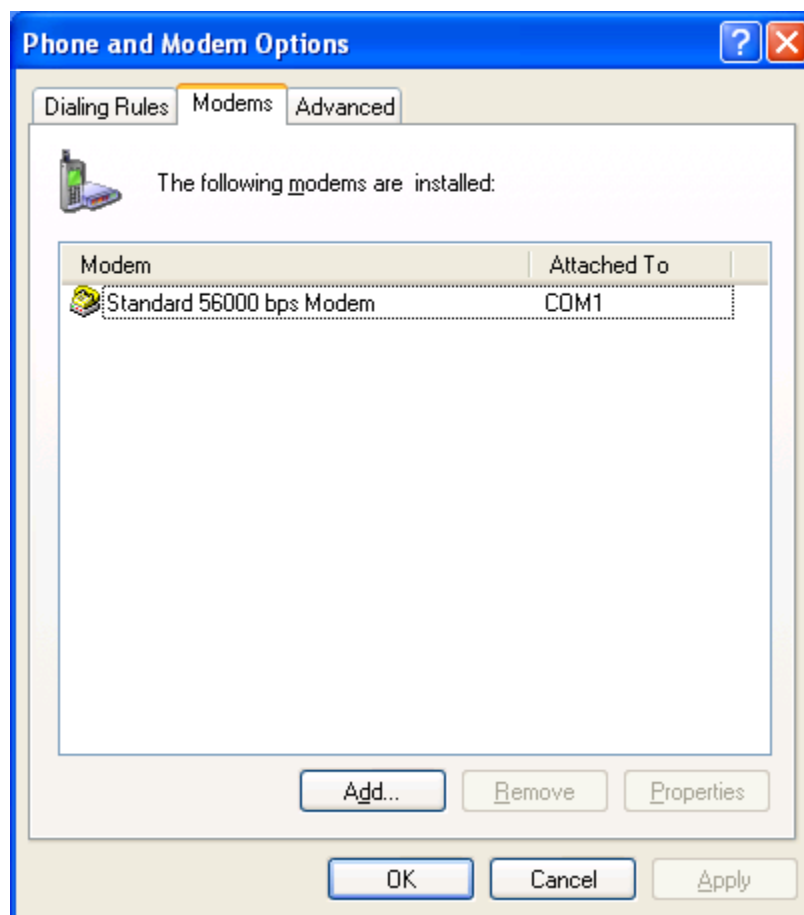
### 3.4 Windows XP Setup

In order to install the modem driver and configure dial-up networking, you will need the following:

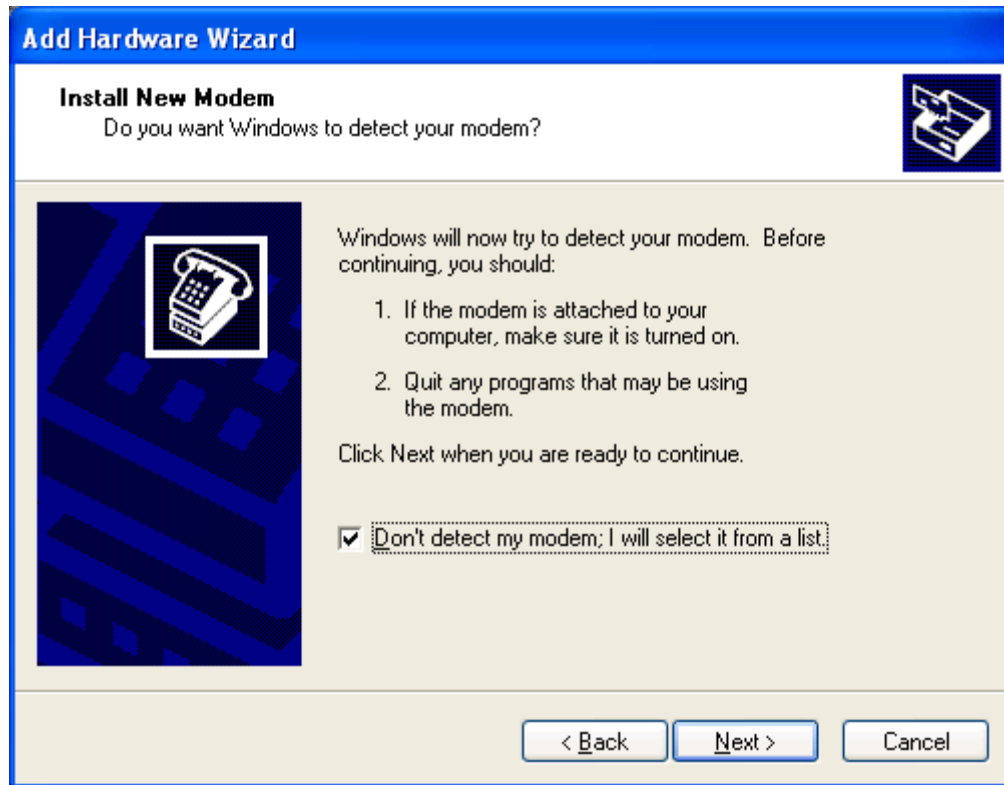
- ✓ The Iridium World Data Services CD
- ✓ An available communications port on your computer (e.g., COM1)
- ✓ Administrator privileges (if using Windows XP Professional Edition)

#### 3.4.1 Install the Modem Driver – Windows XP

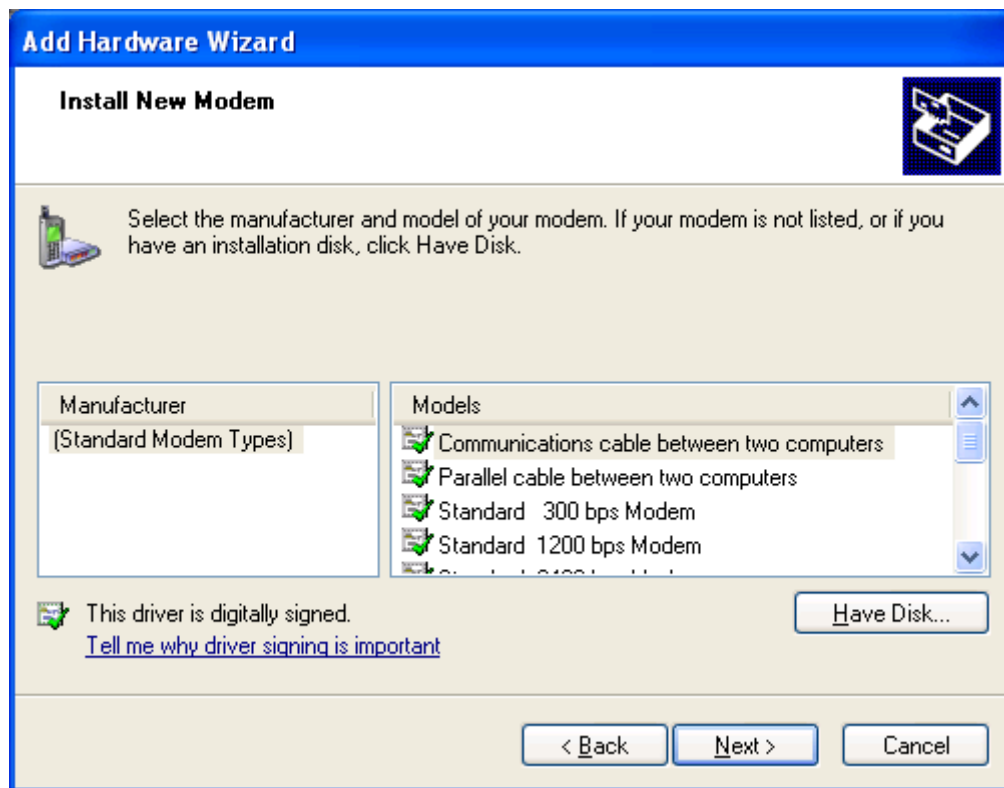
1. Close all applications
2. Choose *Start > Control Panel* to open the Control Panel window.
3. Double click on *Phone and Modem Options* to open the Phone and Modem Options window.
4. Click the Modems tab, and you will see all the modems installed on your computer. Click on *Add...* to open the Add Hardware Wizard for installing a new modem. This will begin the modem installation procedure. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*.



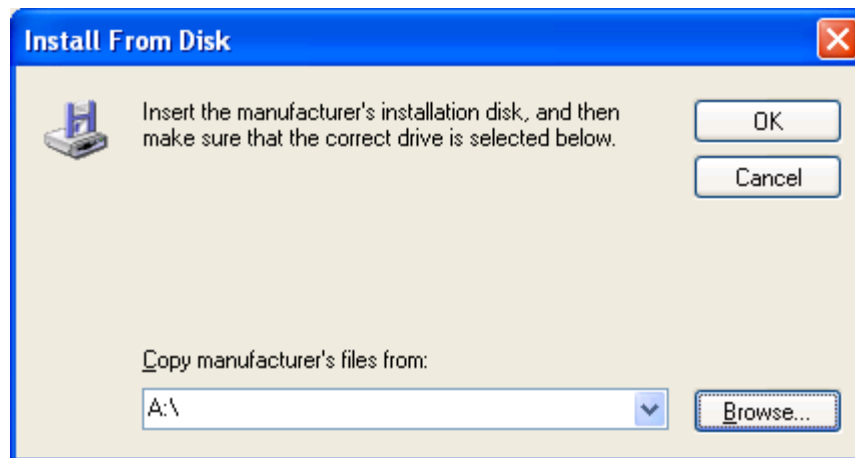
5. Choose the checkbox marked “Don’t detect my modem; I will select it from a list.” Then, click *Next >*.



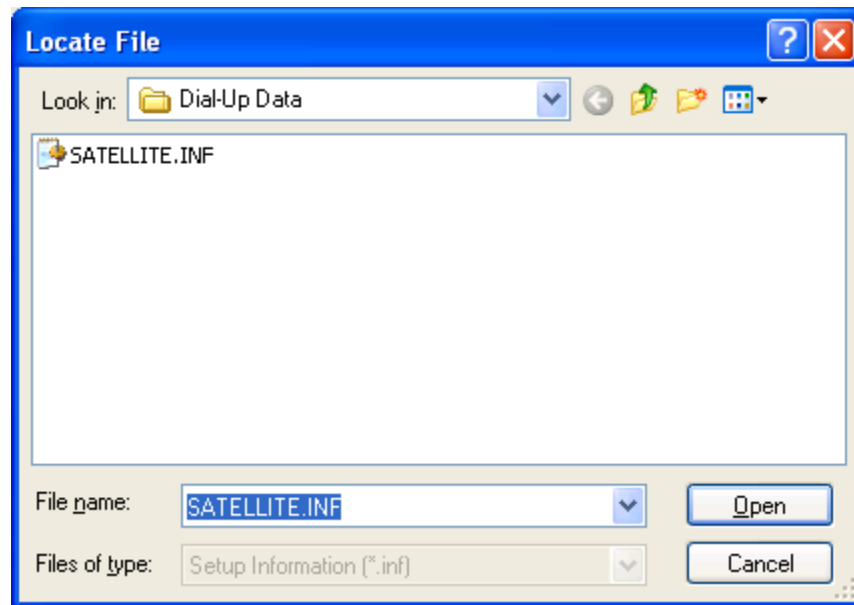
6. Click on *Have Disk...* to open the Install From Disk window.



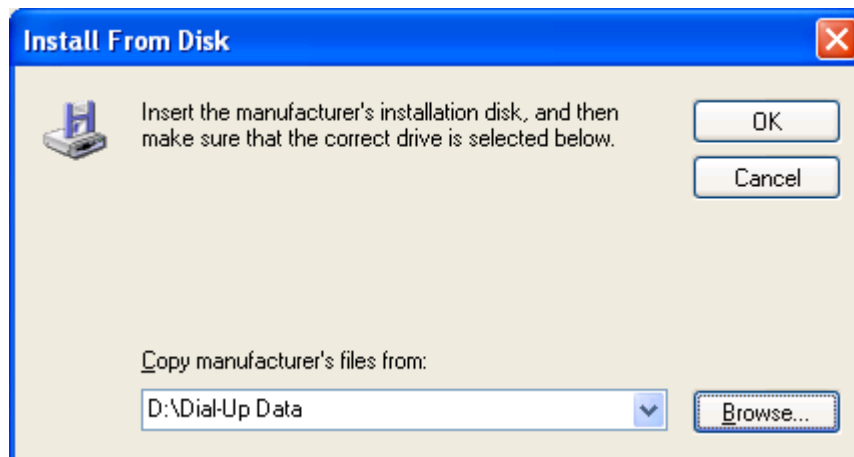
7. The default drive setting is A:\, which is the default floppy drive on most computers. Insert the Iridium World Data Services CD into your CD drive, and click *Browse...*



8. Browse to the *Dial-Up Data* directory on the CD, and then click *Open*.

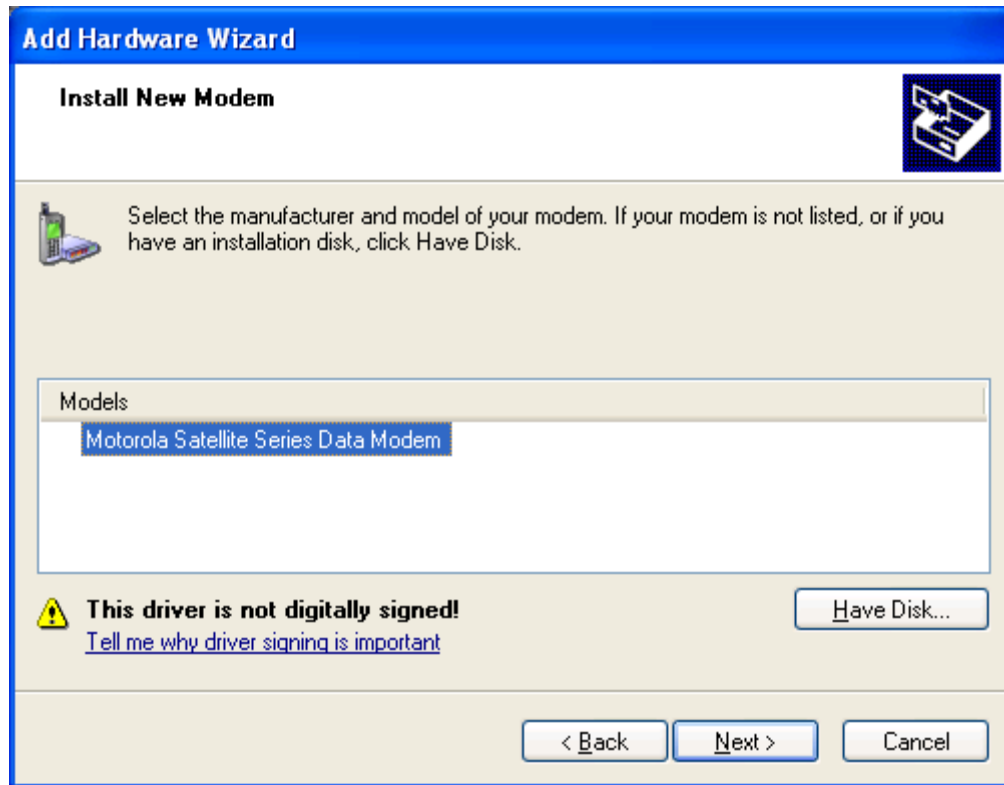


9. Click *OK*.

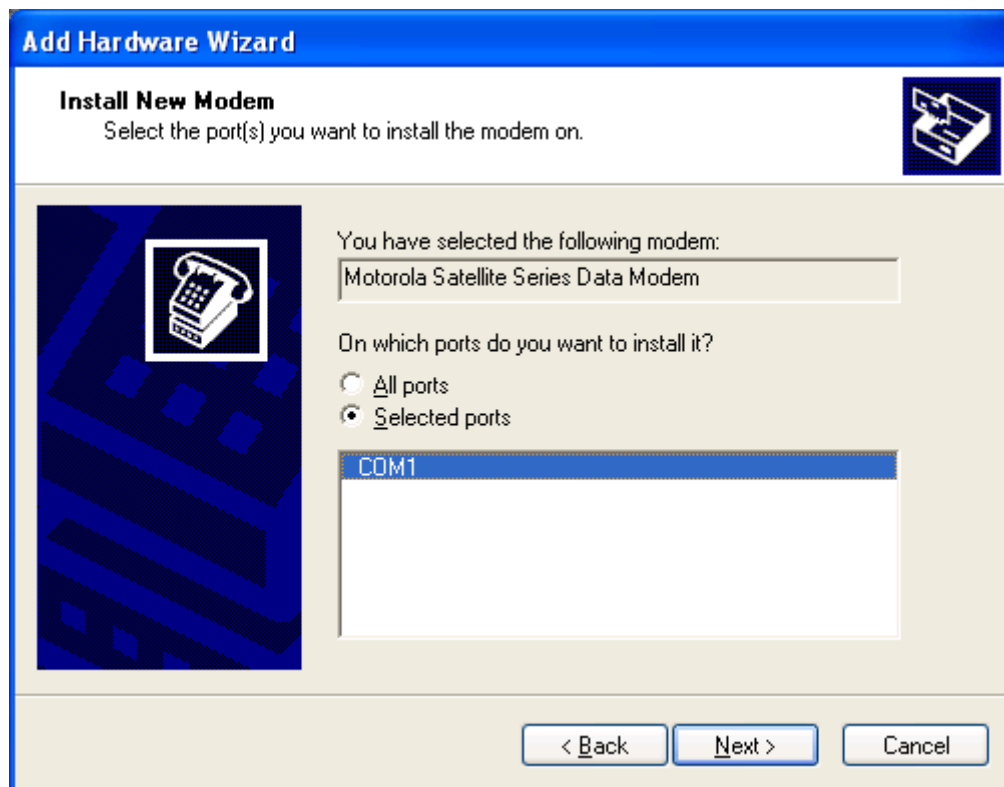




10. In the Install New Modem window, select the Motorola Satellite Series Data Modem and click *Next >*.



11. Click the "Selected ports" radio button, and select an available Communications Port (or COM Port) on which to install the modem (e.g., COM1). This is the port to which you will connect your Iridium phone. Click *Next >*.



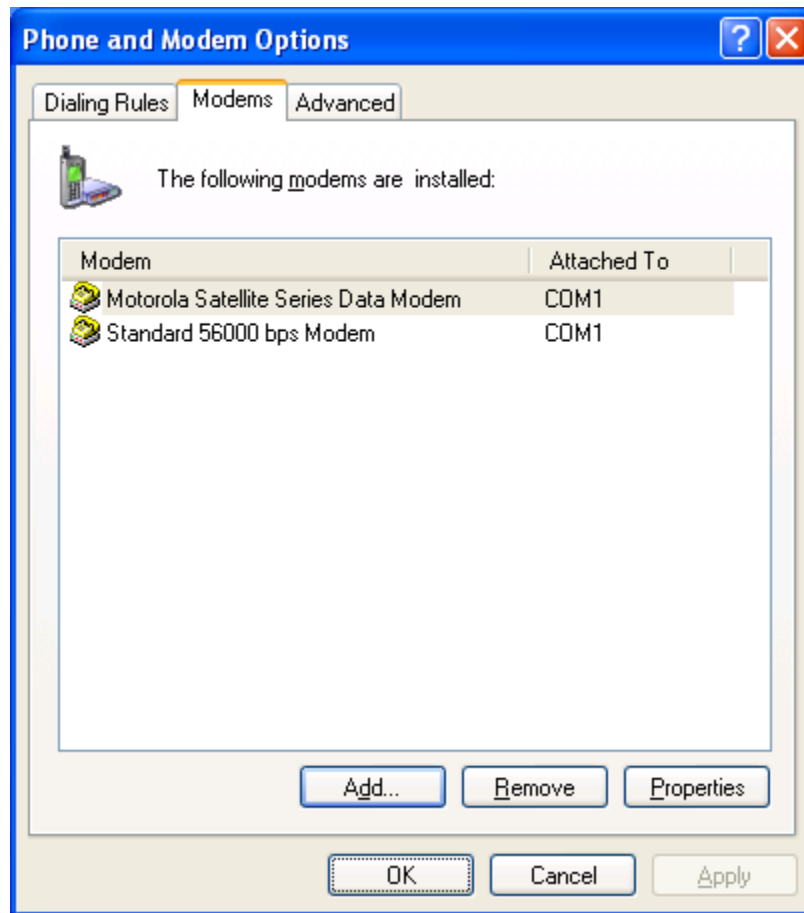
12. The following window will appear. Click *Continue Anyway*.



13. Click *Finish* to close the Install New Modem window.



14. Click *OK* to close the Phone and Modem Options window.



15. You have now completed the installation of the Motorola Satellite Series Data Modem. Continue with section [3.4.2](#).

### 3.4.2 Configure Dial-Up Networking – Windows XP

In order to use your Iridium handset for dial-up networking, you need to create a new dial-up networking connection.

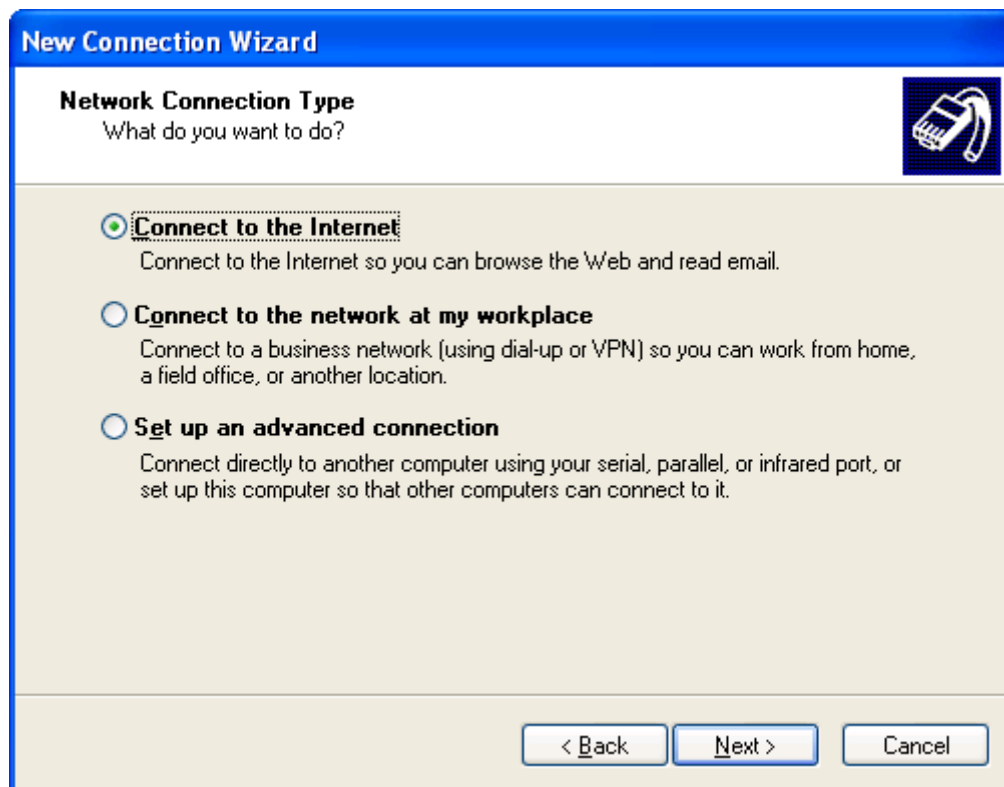
In the Network and Dial-Up Connections window, you can modify an existing connection type or create a new connection type. Unless you are comfortable using the dial-up networking options, we recommend that you create a new connection type for Dial-Up Data.

#### To Create a New Connection Type:

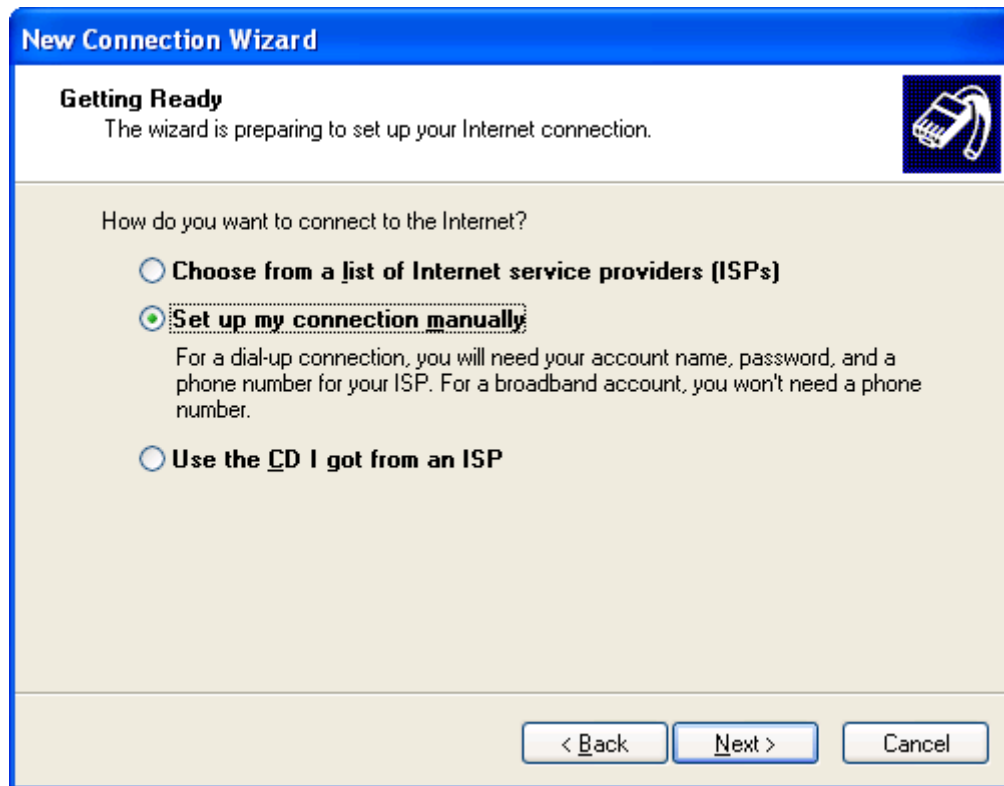
1. Choose *Start > All Programs > Accessories > Communications > New Connection Wizard*.
2. The New Connection Wizard opens. Henceforth, you can cancel at any time without affecting your system by clicking *Cancel*. To continue, click *Next >*.



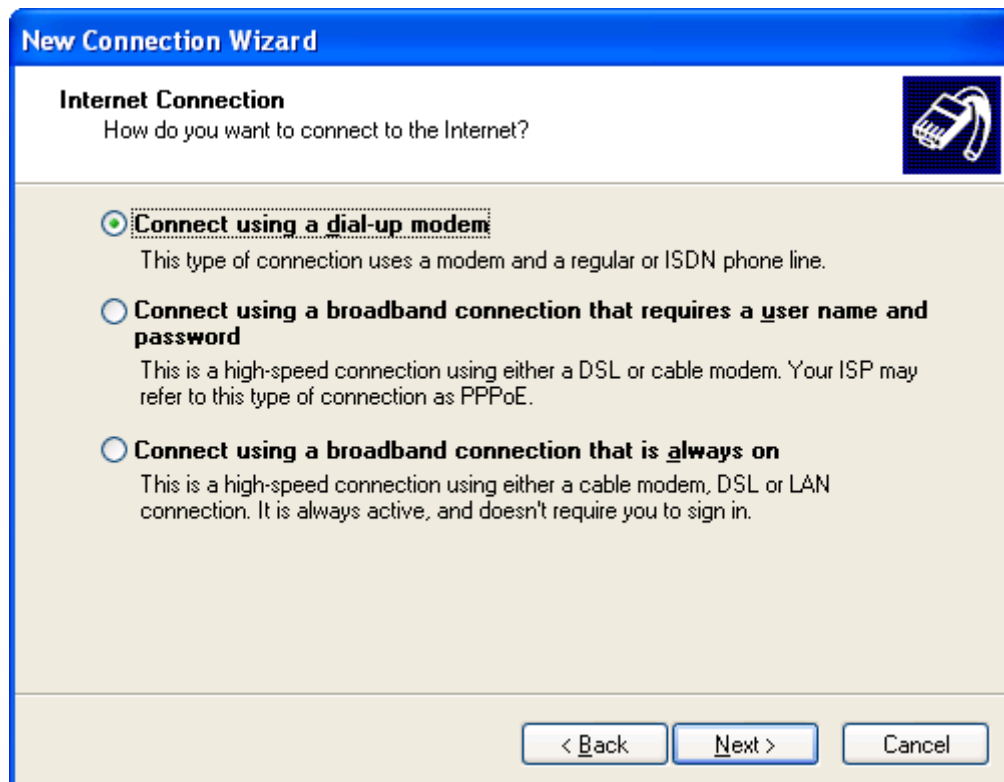
3. Select the appropriate Dial-up connection type (either "Connect to the Internet" or "Connect to the network at my workplace"). This example assumes you are creating a connection to the Internet. Click *Next >*.



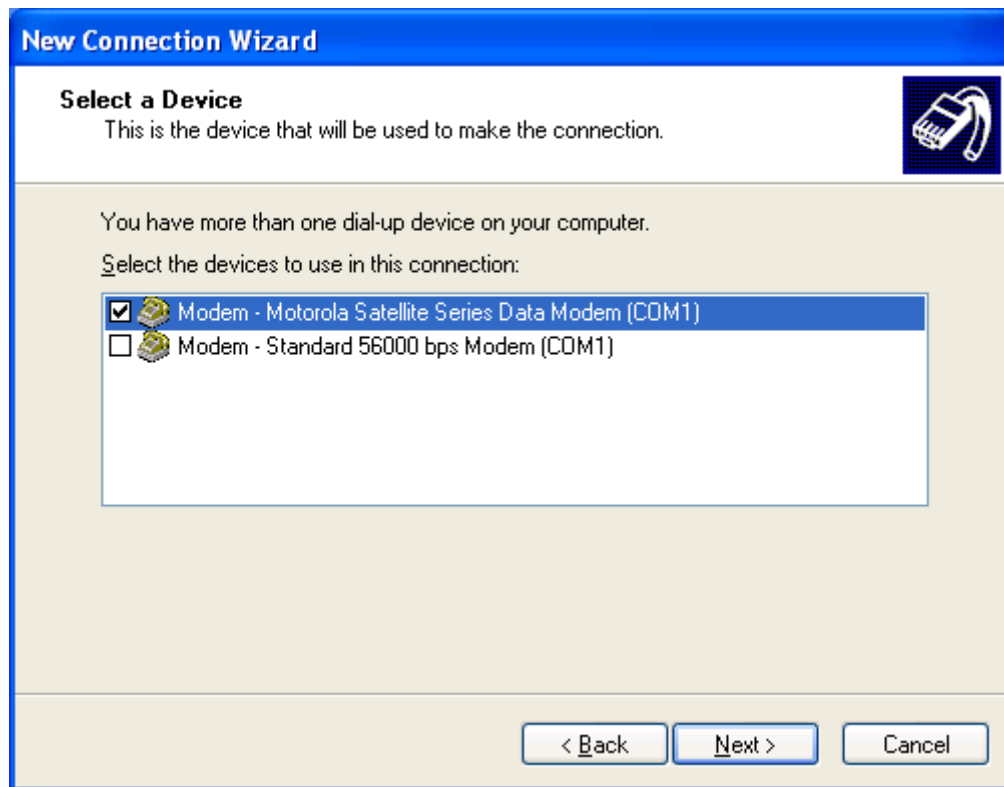
4. Select "Set up my connection manually". Click *Next >*.



5. Select "Connect using a dial-up modem". Click *Next >*.

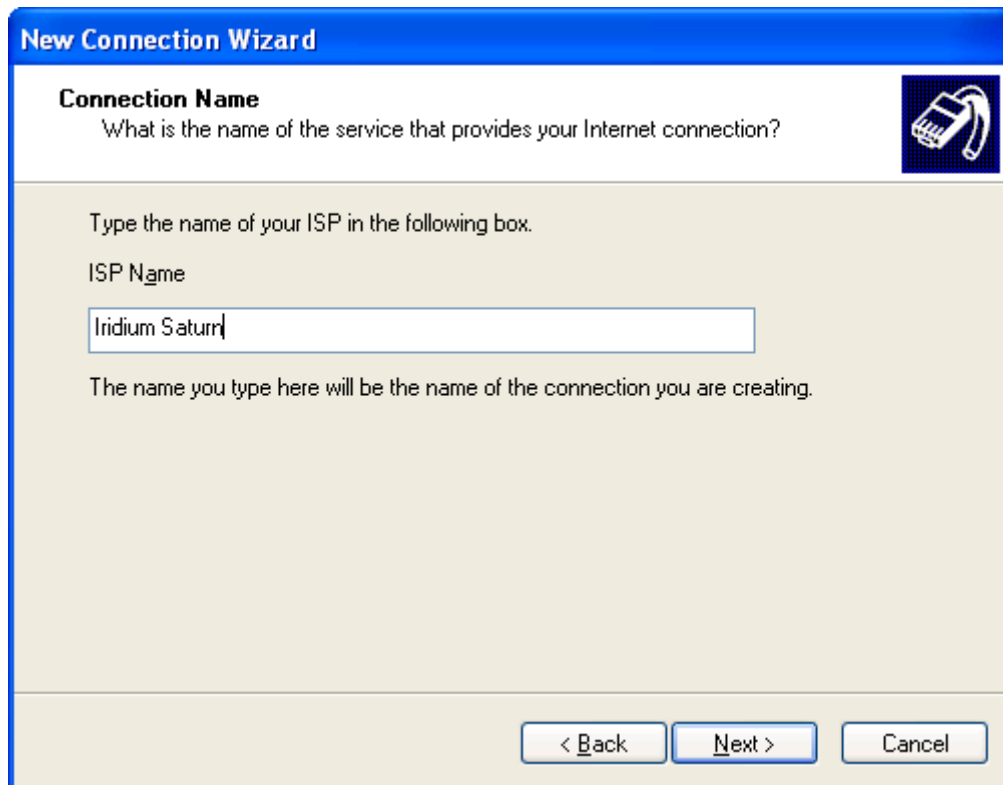


6. The following Internet Connection Wizard window appears only if you have more than one modem installed. If this window appears, choose the *Motorola Satellite Series Data Modem*. Then, click *Next >*.





7. In the *ISP Name* box, enter a name for your connection. For example, if you are creating a connection to your ISP and your ISP is called Saturn Internet, you might name your connection "Iridium Saturn." Click *Next >*.



**New Connection Wizard**

**Connection Name**  
What is the name of the service that provides your Internet connection?

Type the name of your ISP in the following box.

ISP Name

Iridium Saturn

The name you type here will be the name of the connection you are creating.

< Back   Next >   Cancel

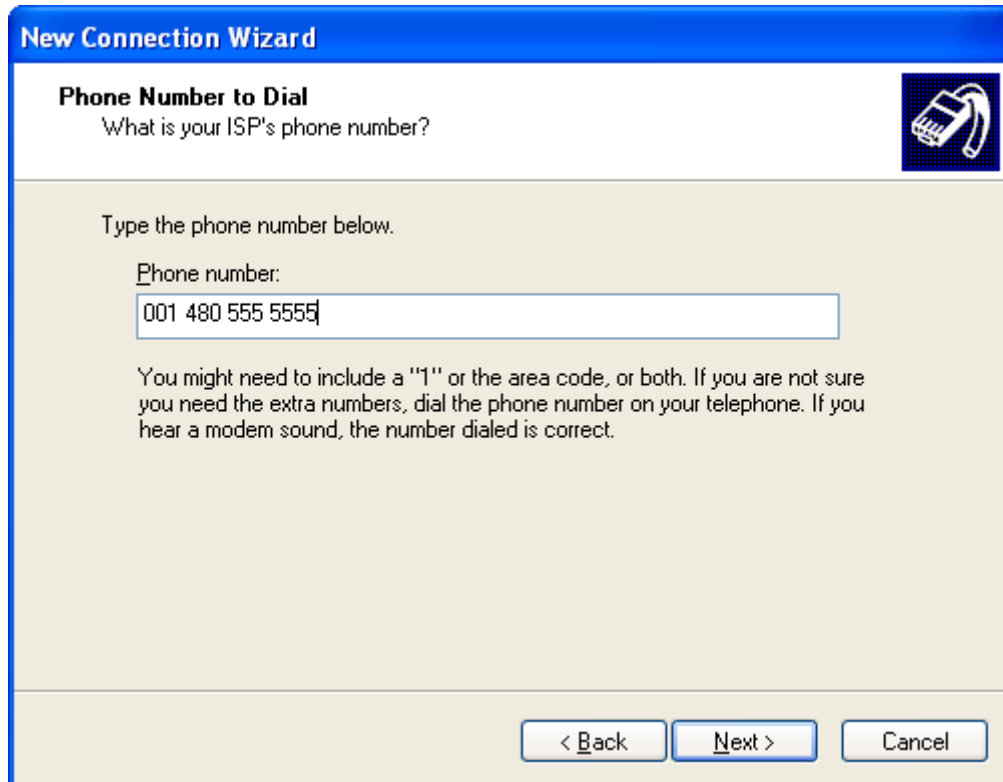
8. In the *Phone Number* box, enter the telephone number you wish to use for your connection.  
**Enter the number in international dialing format:**

00 + Country Code + Area Code/Phone Number.

For example, if you are dialing an ISP in Tempe, Arizona, USA, you would enter 00 1 480 555 5555, where 1 is the country code and 480.555.5555 is the ISP's telephone number. *Please note that this is not a valid telephone number!*

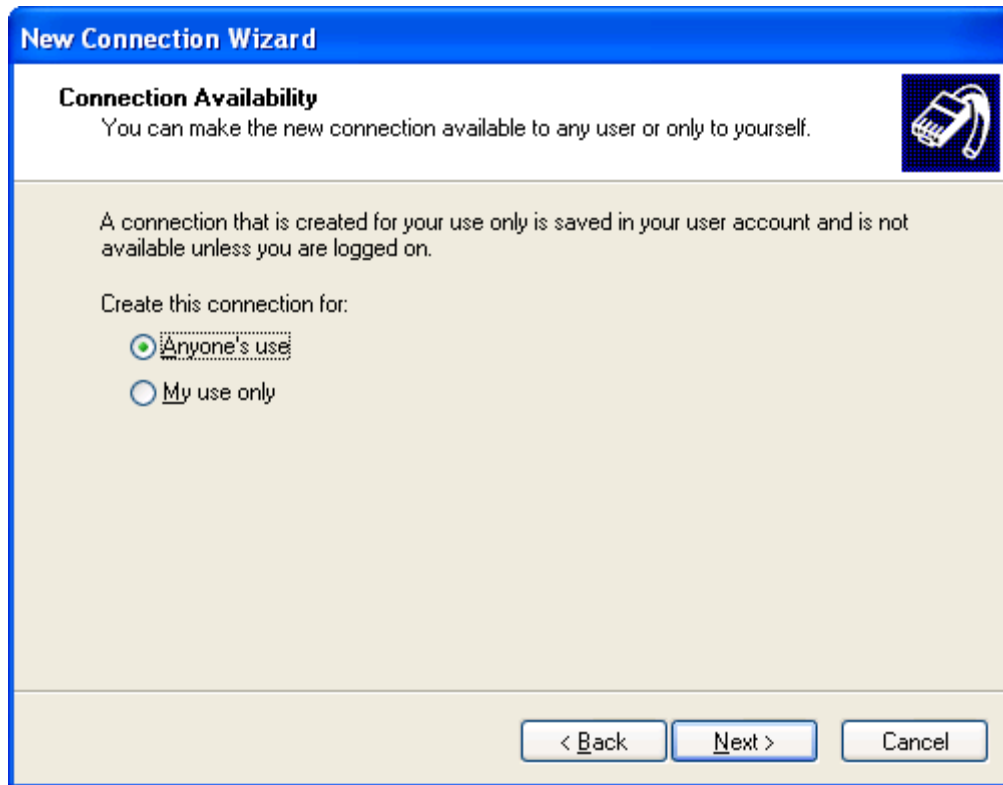
**Note:** This is the same dialing pattern used for voice calls. In fact, you can verify that you are dialing the correct number for your ISP by dialing the number as a voice call on your satellite phone. You should hear your ISP's modem tones if dialed properly.

Click *Next >*.

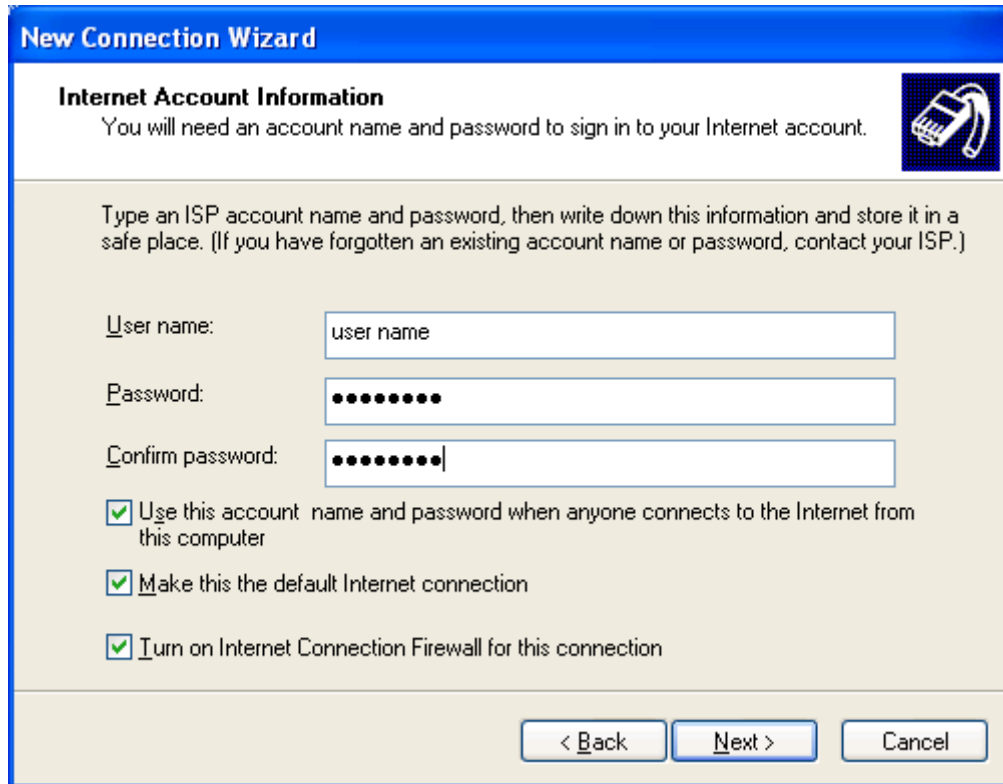


The screenshot shows a Windows XP-style dialog box titled "New Connection Wizard". The main heading is "Phone Number to Dial" with a sub-question "What is your ISP's phone number?". To the right is an icon of a telephone handset. Below the heading, it says "Type the phone number below." followed by "Phone number:". A text input field contains "001 480 555 5555". Below the field, a note states: "You might need to include a '1' or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct." At the bottom are three buttons: "< Back", "Next >", and "Cancel".

9. If using Windows XP Professional Edition, the following window may appear. If so, select either “Anyone’s use” or “My use only”. Click *Next >*.



10. Enter your user name and password to access your ISP. Click *Next >*.



The image shows a Windows XP 'New Connection Wizard' window. The title bar is blue with the text 'New Connection Wizard'. The main window has a light beige background. At the top, there's a section titled 'Internet Account Information' with a small icon of a modem and a telephone handset. Below the title, it says 'You will need an account name and password to sign in to your Internet account.' The main area contains instructions: 'Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)' There are three input fields: 'User name:' with the text 'user name', 'Password:' with ten dots, and 'Confirm password:' with ten dots. Below these are three checkboxes, all of which are checked: 'Use this account name and password when anyone connects to the Internet from this computer', 'Make this the default Internet connection', and 'Turn on Internet Connection Firewall for this connection'. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

**New Connection Wizard**

**Internet Account Information**

You will need an account name and password to sign in to your Internet account.

Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)

User name: user name

Password: ●●●●●●●●

Confirm password: ●●●●●●●●

☒ Use this account name and password when anyone connects to the Internet from this computer

☒ Make this the default Internet connection

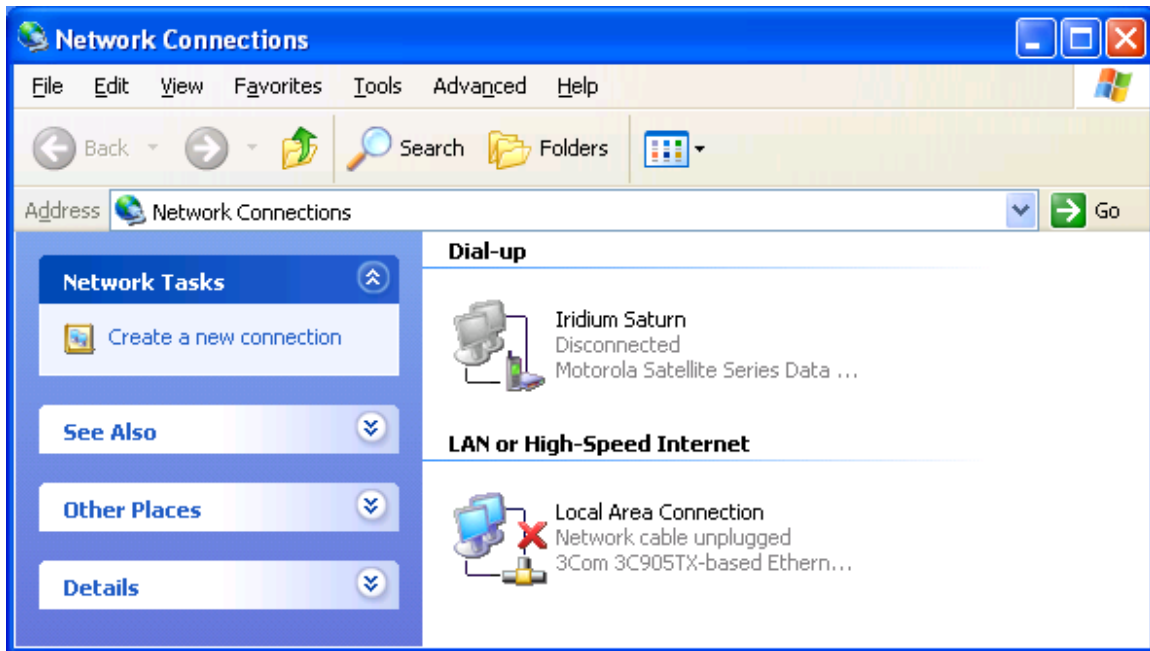
☒ Turn on Internet Connection Firewall for this connection

< Back   Next >   Cancel

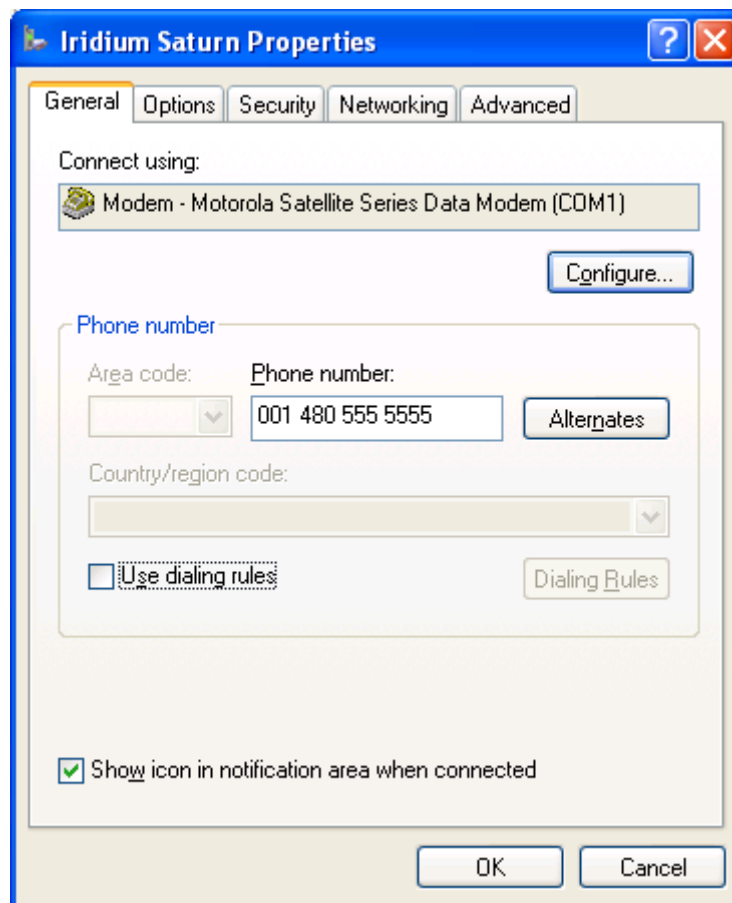
11. Click *Finish* to save your new connection.



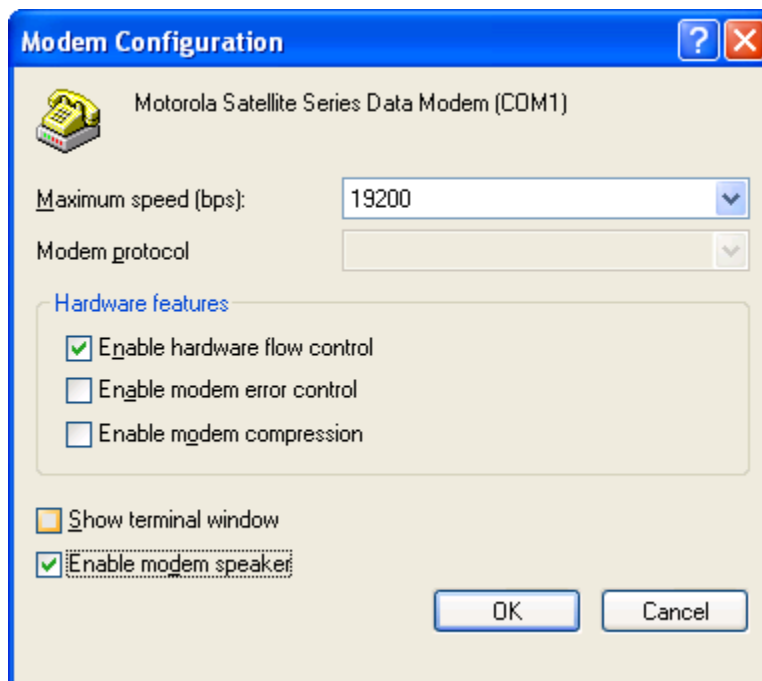
12. Choose Start > All Programs > Accessories > Communications > Network Connections.
13. Right-click on your new dial-up connection (*Iridium Saturn* in this example) and select *Properties*.



14. Verify the settings with the figure below. Also, verify that you have entered the correct telephone number. (Note that your telephone number should be seen in place of 001 480 555 5555). Make sure “Use dialing rules” is ***unchecked***.



15. From the General menu, click *Configure....* The settings should match the figure below. Click *OK* to return to the Properties window, and then click *OK* again to close the Properties window.



16. You have now completed the configuration of Dial-Up Networking. To connect your hardware and initiate a dial-up data call, continue with section 4.



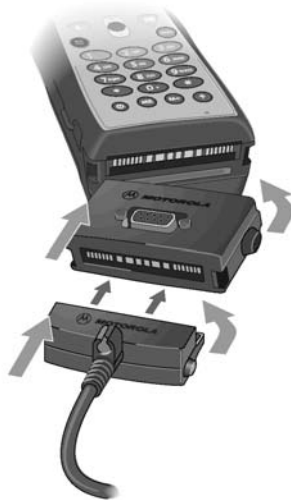
## **4 Hardware Connections**

### **4.1 Setting up the 9500 or 9505 Portable Phone**

1. Insert your data-provisioned SIM card into the phone. See the user guide for your phone if you need further instructions on how to insert the SIM card.
2. Connect the Data Adapter to the bottom of the phone.



3. (Optionally) connect a charging device to the Data Adapter.



4. Plug the Serial Cable into the Data Adapter.



5. Plug the Serial Cable into the serial port on your computer.
6. Rotate and extend the phone's antenna. Place the phone into the stand, or otherwise position the phone so that the antenna is vertical and has a clear view of the sky.



7. Continue with section [5](#).

## **4.2 Setting up the 9570 Portable Dock**



1. Insert your data-provisioned SIM card into the phone or the dock. See the user guide for your Portable Phone or Portable Dock if you need further instructions on how to insert the SIM card.
2. Insert the 9500 Portable Phone into the Portable Dock (or insert a 9505 Portable Phone, with optional dock adapter).
3. Plug the Serial Cable into the back of the Portable Dock.
4. Plug the Serial Cable into the serial port on your computer.
5. Connect an external antenna to the Portable Dock, and orient the antenna so that it has a clear view of the sky.
6. Continue with section [5](#).

## **4.3 Setting up the 9520 Mobile Phone**



1. Insert your data-provisioned SIM card into the Mobile Phone. See the user guide for your phone if you need further instructions on how to insert the SIM card.
2. The wiring harness for the 9520 Mobile Phone contains a built-in Serial Cable. Plug the Serial Cable into the serial port on your computer.
3. Verify that an external antenna is connected to the Mobile Phone, and orient the antenna so that it has a clear view of the sky.
4. Continue with section [5](#).

#### **4.4 Setting up the EuroCom Iridium Fixed Mount Unit**

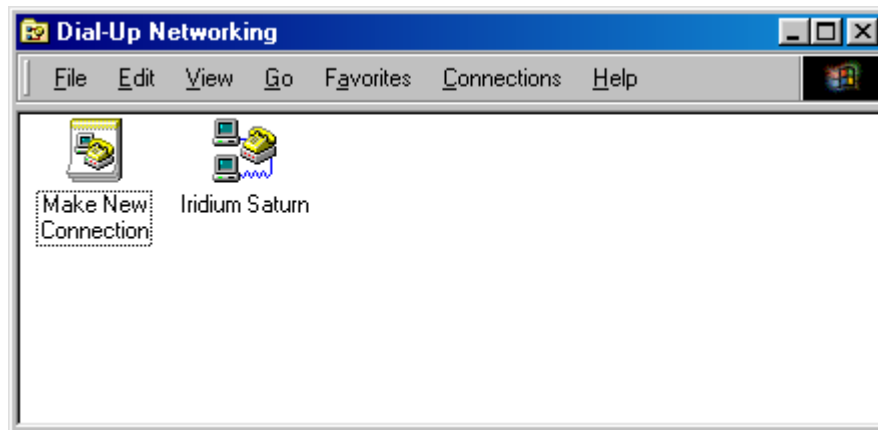


1. Open the small lid on the top of the transceiver unit and insert your data-provisioned SIM card. See the user guide for your phone if you need further instructions on how to insert the SIM card.
2. The EuroCom Iridium Fixed Mount Unit comes with a 9-Pin Serial Cable. Plug the Serial Cable into the port labeled "Data" on the transceiver unit.
3. Plug the Serial Cable into the serial port on your computer.
4. Verify that an external antenna is connected to the phone, and orient the antenna so that it has a clear view of the sky.
5. Continue with section [5](#).

## 5 Dialing a Call

To place a Dial-Up Data call, you must open the Dial-Up Networking window and select the dial-up connection you created for your Motorola phone.

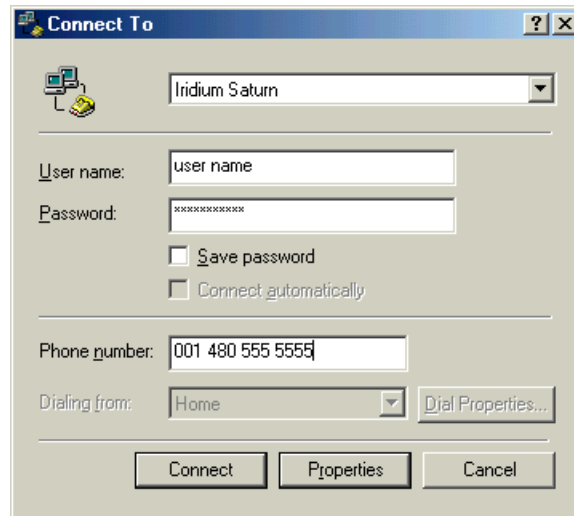
1. Connect the computer and phone as described in Section 4.
2. Orient the phone's antenna with a clear view of the sky.
3. If your computer is turned off, turn it on and wait for it to boot up.
4. Turn on your Iridium phone and wait for it to register with the satellite network.
5. Depending on your Windows operating system, choose one of the following to open the Dial-Up Networking window:
  - *Start > Programs > Accessories > Dial-Up Networking*
  - *Start > Programs > Accessories > Communications > Dial-Up Networking*
  - *Start > Programs > Accessories > Communications > Network and Dial-up Connections*
  - *Start > Programs > Accessories > Communications > Network Connections*
  - *Start > All Programs > Accessories > Communications > Network Connections*
6. A window similar to the following will appear. Double-click the dial-up connection you created for your Motorola Satellite Series phone. In this example, you would double click "Iridium Saturn".



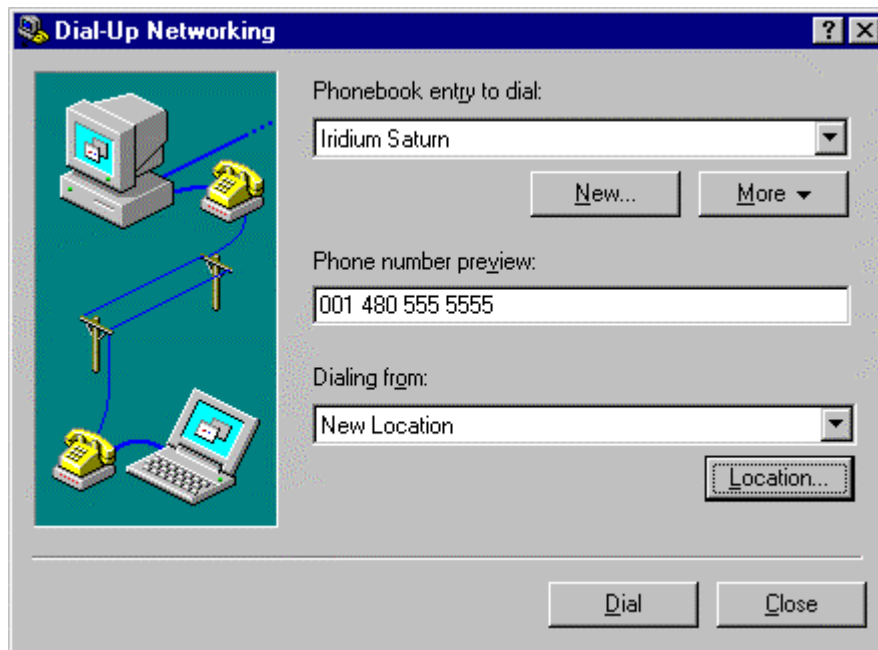
7. Find your operating system below and follow the appropriate instructions.

**Windows 95/98/Me:**

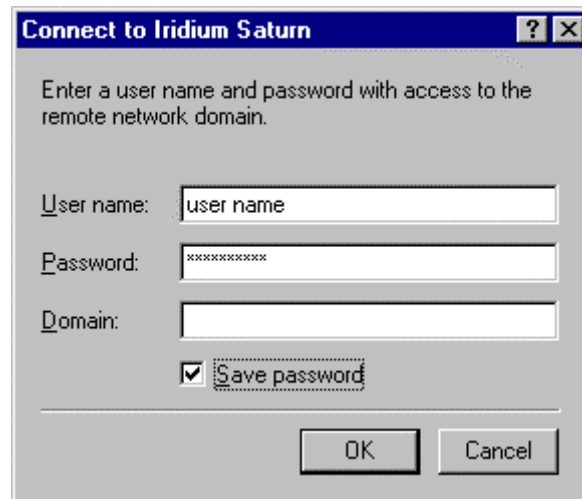
In the Connect To window, enter the user name and password that you use to access your ISP or corporate network, and if desired, click the “*Save password*” checkbox so that you do not have to re-enter the password every time a connection is made. Click *Connect* and your Iridium handset will begin to dial. Go to Step 8.

**Windows NT:**

The Dial-Up Networking window appears. Select your connection from the drop down list (for example, Iridium Saturn). Verify that the phone number is correct. Click *Dial* to continue.



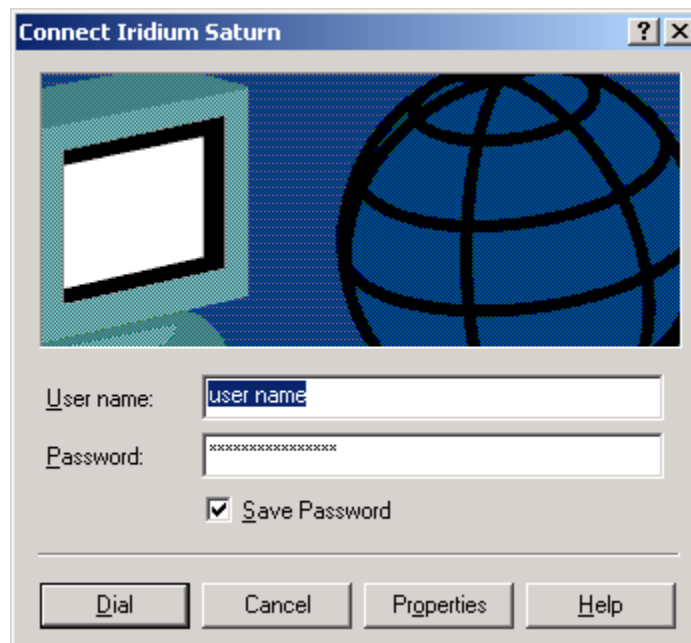
A window similar to the following will appear. Enter the user name and password that you use to access your ISP or corporate network. If desired, click the “Save password” checkbox so that you do not have to re-enter the password every time a connection is made. Press *OK* and your Iridium handset will begin to dial. Go to Step 8.



A Windows-style dialog box titled "Connect to Iridium Saturn". It contains the instruction "Enter a user name and password with access to the remote network domain." Below this are three input fields: "User name:" with the text "user name", "Password:" with masked characters "xxxxxxxx", and "Domain:" which is empty. A checkbox labeled "Save password" is checked. At the bottom are "OK" and "Cancel" buttons.

#### Windows 2000:

The Connect window appears. Click *Dial* and your Iridium handset will begin to dial. Go to Step 8.



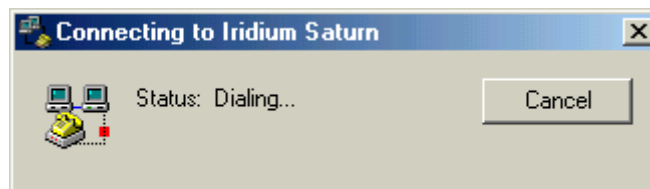
A Windows-style dialog box titled "Connect Iridium Saturn". The top half features a graphic of a computer monitor and a globe. Below the graphic are three input fields: "User name:" with the text "user name", "Password:" with masked characters "xxxxxxxxxxxx", and a checked checkbox labeled "Save Password". At the bottom are four buttons: "Dial", "Cancel", "Properties", and "Help".

**Windows XP:**

The Connect window appears. Click *Dial* and your Iridium handset will begin to dial. Go to Step 8.



8. As the Iridium phone is dialing, it will blink “Data Call In Progress” and a Dial-Up Networking window will appear on your computer showing the current status of the connection (just as it does when connecting through the landline network to your ISP or corporate network).



9. Once connected, the handset will continue to display “Data Call In Progress,” but it will no longer blink, and the following window will appear on your computer indicating that your user name and password are being verified.





10. Once authenticated, a dial-up networking session is established, and the dial-up networking icon will appear in your task bar.
11. You can now launch your Web browser, email program or other program you normally use when connected to your corporate network or Internet Service Provider.

**Note: See the “Application Notes” document for instructions on how to optimize some common software applications for use with Iridium World Data Services.**

### **Trademark Notice**

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