

Wireless Client Configuration Guide

for 3rd-party wireless Ethernet cards

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Owner's Record

The serial number is located on the bottom of your 2Wire HomePortal. Record the serial number in the space provided here and refer to it when you call Customer Care.

Serial Number: _____

Safety Information

- To prevent fire or shock hazard, do not expose your HomePortal to rain or moisture.
- To avoid electrical shock, do not open the HomePortal. Refer servicing to qualified personnel only.
- Never install modem or telephone wiring during a lightning storm.
- Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
- Never touch uninsulated telephone wire or terminals unless the telephone line has been disconnected at the network interface.
- Use caution when installing or modifying telephone lines.
- Avoid using your modem during an electrical storm.
- Do not use your modem or a telephone to report a gas leak in the vicinity of the leak.
- A socket outlet should be as close as possible to the unit and easily accessible.

Wireless adapter configuration

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Wireless adapter configuration

Introduction

After your 802.11b wireless adapter is installed in your computer, you must configure it to communicate with the HomePortal. This guide describes how to configure the following wireless Ethernet (IEEE 802.11b) adapters for performance with the HomePortal:

- Agere (ORiNOCO PC Card Silver or Gold)
- Cisco (Aironet 340 Series 11Mbps Wireless LAN Adapter)
- D-Link Air DWL-650
- Apple AirPort card
- Other third-party wireless Ethernet cards

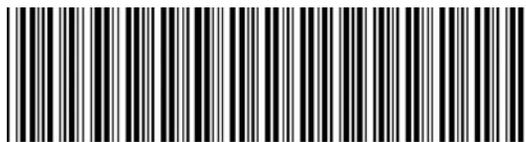
Note: *The instructions for Agere, Cisco, and D-Link cards are for computers running Windows 98. The instructions for the Apple card are for computers running MacOS 9.0[??]. Because not all Windows and Macintosh versions respond to new hardware in the same way, screens may appear in a different order and may have a slightly different appearance than the screens shown in these instructions.*

Locate the serial number and wireless encryption key

Your HomePortal is configured with unique security parameters that must be configured into your wireless adapter.

Wireless Card Configuration

On the bottom of your HomePortal you will find two important pieces of information required for configuring your adapter: the serial number and the wireless encryption key.



0123456789102

Serial number

[9876543210]

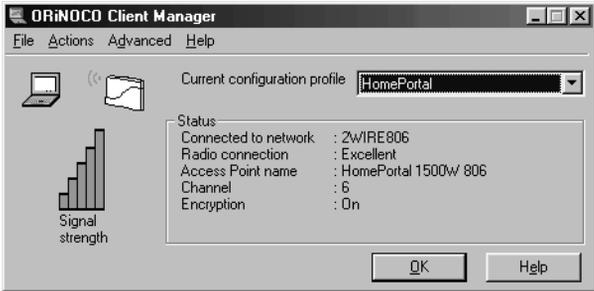
Wireless encryption key

After you have located the serial number and wireless encryption key, perform the following steps to configure your wireless adapter.

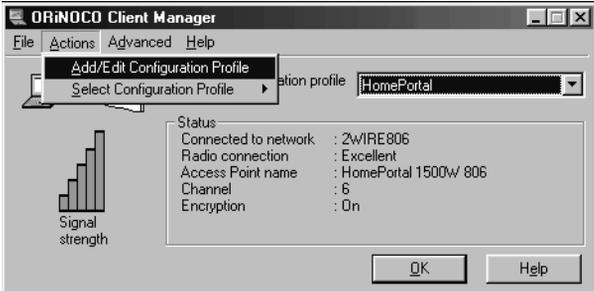
Agere ORiNOCO PC Card - Silver or Gold

Consult the documentation provided with your wireless adapter to install the Agere ORiNOCO PC Card - Silver or Gold, then follow these steps:

- 1. From the Start menu, select **Programs > ORiNOCO > Client Manager**. The ORiNOCO Client Manager screen appears.

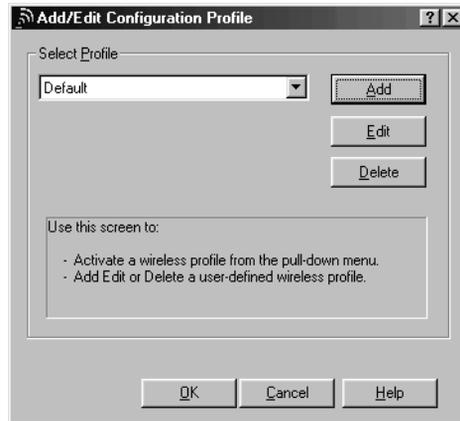


- 2. From the Actions menu, select **Add/Edit Configuration Profile**.

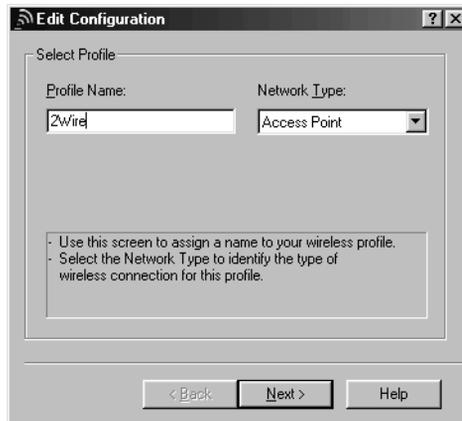


Wireless Card Configuration

- The Add/Edit Configuration Profile screen appears.

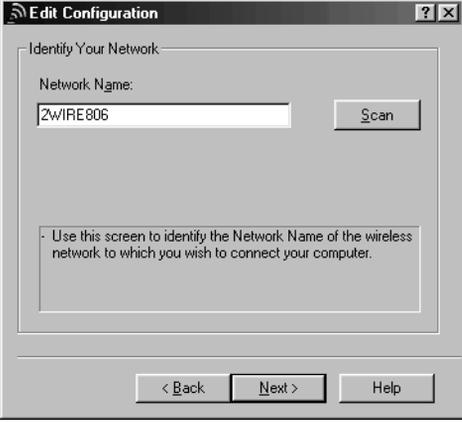


- Click **Add**. The Edit Configuration screen appears. Enter a profile name in the Profile Name field. The profile name identifies your wireless profile, and should be no more than 29 characters in length.



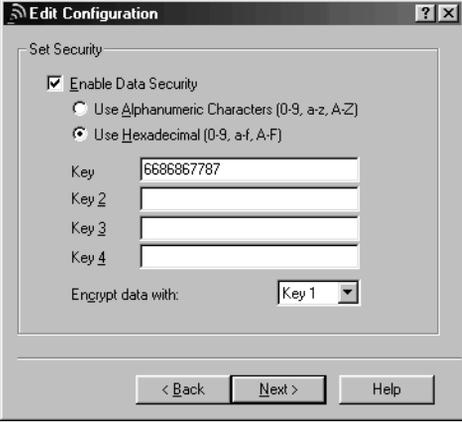
- From the Network Type pulldown menu, select **Access Point**.

- Click **Next**. The Edit Configuration screen appears.



The screenshot shows a window titled "Edit Configuration" with a sub-header "Identify Your Network". It contains a text input field for "Network Name" with the value "2wIRE806" and a "Scan" button. Below the input field is a text box with the instruction: "Use this screen to identify the Network Name of the wireless network to which you wish to connect your computer." At the bottom are three buttons: "< Back", "Next >", and "Help".

- In the Network Name field, enter the word “**2WIRE**” followed by the last three digits of your HomePortal serial number, located on the bottom of your HomePortal. This is the Wireless Network Name. The Wireless Network Name is case-sensitive, so it is important that you enter the word “**2WIRE**” in capital letters.
- Click **Next**. In the Set Security field, check the **Enable Data Security** checkbox. Verify that the **Use Hexadecimal (0-9, a-f, A-F)** radio button is selected.

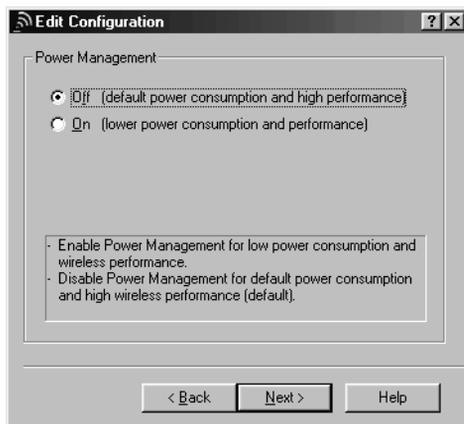


The screenshot shows a window titled "Edit Configuration" with a sub-header "Set Security". It features a checked checkbox for "Enable Data Security". Below it are two radio buttons: "Use Alphanumeric Characters (0-9, a-z, A-Z)" and "Use Hexadecimal (0-9, a-f, A-F)", with the latter selected. There are four text input fields labeled "Key", "Key 2", "Key 3", and "Key 4". The "Key" field contains the value "6686867787". At the bottom, there is a dropdown menu labeled "Encrypt data with:" with "Key 1" selected. At the very bottom are three buttons: "< Back", "Next >", and "Help".

- In the Key field, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

Wireless Card Configuration

10. Verify that **Key 1** is selected in the **Encrypt data with** pulldown menu (this is the default).
11. Click **Next**. The following screen appears.



12. Select the power management option that you wish to use (the default is **Off**), and click **Next**.
13. In the TCP/IP Behavior field, check the **Renew IP Address when selecting this profile** checkbox.



14. Click **Finish**. The following screen appears.

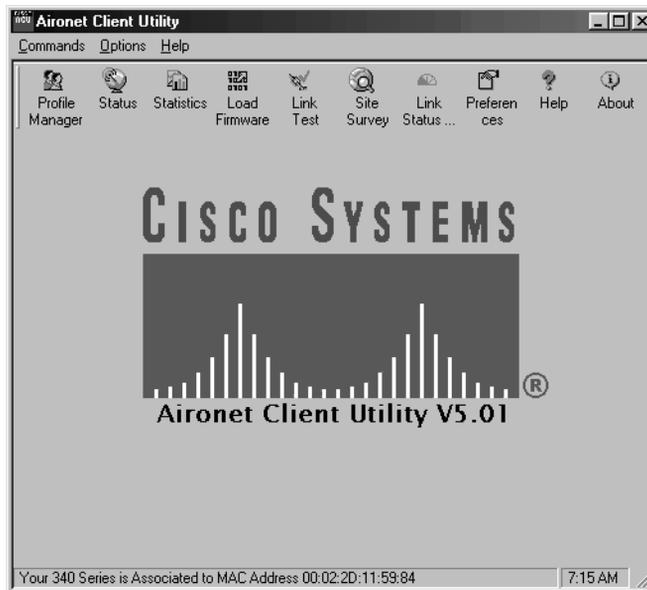


15. Click **OK**.

Cisco Aironet

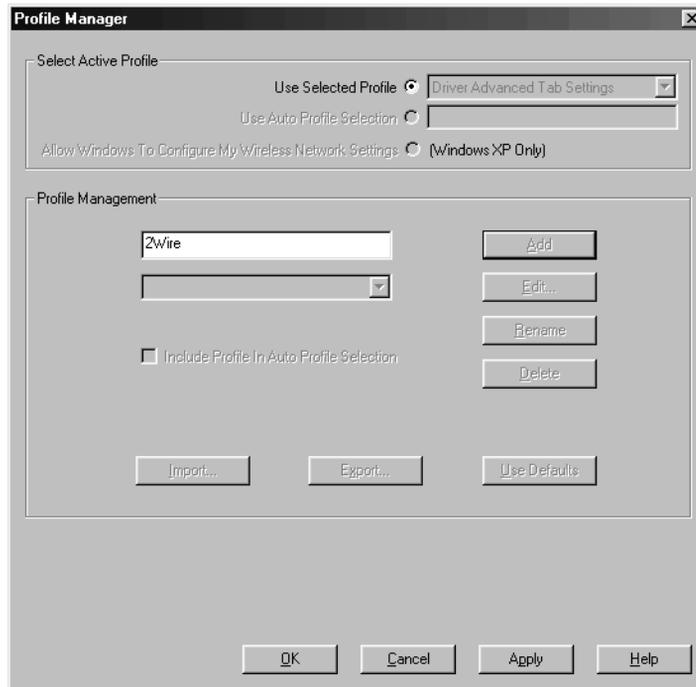
Consult the documentation provided with your wireless card to install the Cisco Aironet adapter, then follow these steps:

1. Double-click the Aironet Client Utility icon on your desktop. The Aironet Client Utility screen appears.



2. Click the **Profile Manager** button. The Profile Manager screen appears.
3. Click **Add**.

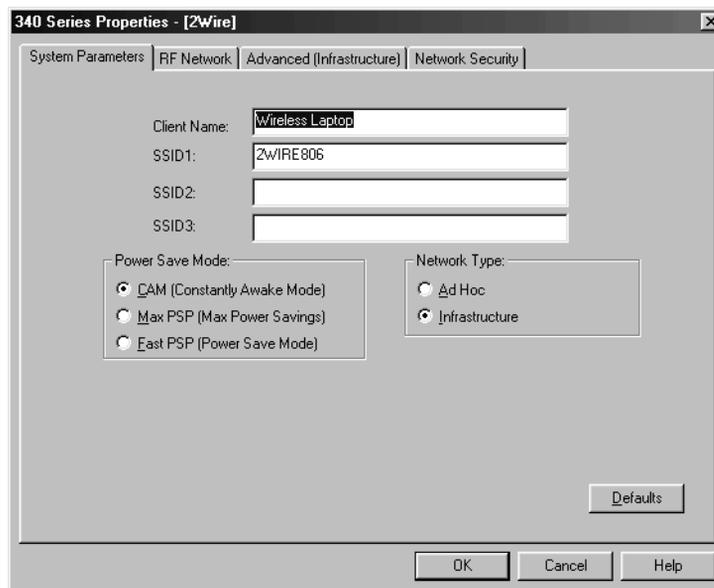
4. In the Profile Management field, enter your profile name. The profile name identifies your wireless profile, and should be no more than 29 characters in length.



5. Click **Apply**. The 340 Series Properties screen appears.

Wireless Card Configuration

6. Select the **System Parameters** tab. In the Client Name field, enter a client name. The client name identifies your PC.



7. In the SSID1 field, enter the word “**2WIRE**” followed by the last three digits of your HomePortal serial number. This is the Wireless Network Name. The Wireless Network Name is case-sensitive, so it is important that you enter the word “**2WIRE**” in capital letters.
8. In the Power Save Mode field, verify that the **CAM (Constantly Awake Mode)** radio button is selected (this is the default).
9. In the Network Type field, verify that the **Infrastructure** radio button is selected (this is the default).

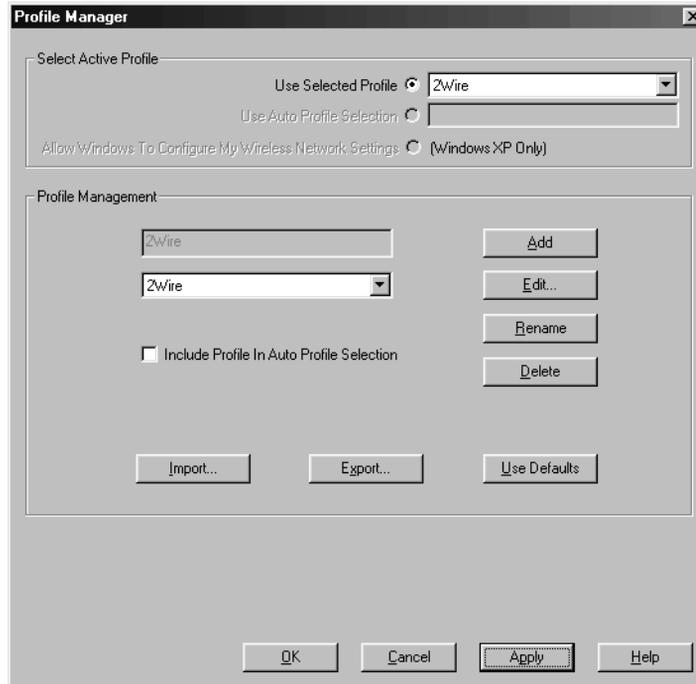
10. Select the Network Security tab. In the WEP field, select the **Use Static WEP Keys** radio button.

The screenshot shows the '340 Series Properties - [2Wire]' dialog box with the 'Network Security' tab selected. The 'Network Security Type' is set to 'None'. The 'WEP' section has 'Use Static WEP Keys' selected. The 'Static WEP Keys' section has 'Hexadecimal (0-9, A-F)' selected for the 'WEP Key Entry Method' and 'Open Authentication' selected for 'Access Point Authentication'. The 'WEP Key 1' field contains the hexadecimal value '6686867787' and the 'Transmit Key' radio button is selected. The 'WEP Key Size' is set to 40. There are also checkboxes for 'WEP Key 2', 'WEP Key 3', and 'WEP Key 4', and an 'Allow Association To Mixed Cells' checkbox at the bottom.

11. In the WEP Key Entry Method field, verify that the **Hexadecimal (0-9, A-F)** radio button is selected.
12. In the WEP Key 1 field, click the **Transmit Key** radio button and enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.

Wireless Card Configuration

- Click **OK**. The Profile Manager screen appears. Your profile name should now appear in the second line of the Profile Management field, indicating that your Cisco adapter is properly configured.

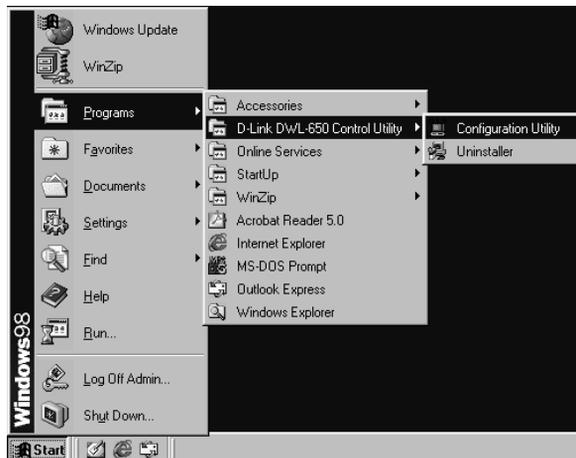


- Click **OK**.

D-Link Air DWL-650

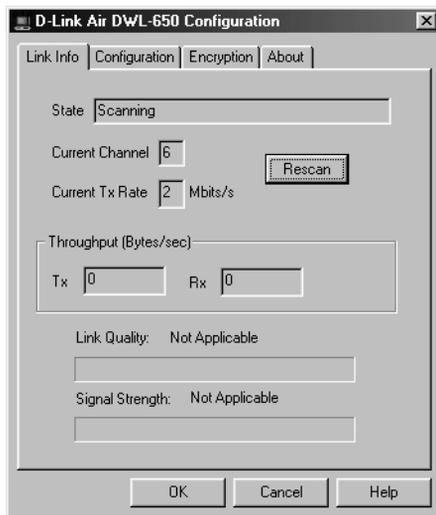
Consult the documentation provided with your wireless adapter to install the D-Link Air DWL-650, then follow these steps:

1. From the Start menu, select **Programs > D-Link DWL-650 Control Utility > Configuration Utility**.

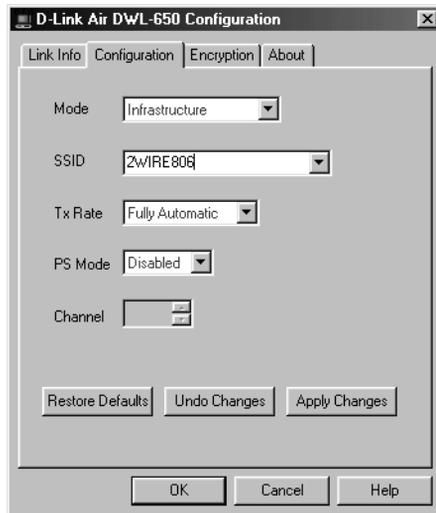


Wireless Card Configuration

- The D-Link Air DWL-650 Configuration screen appears.



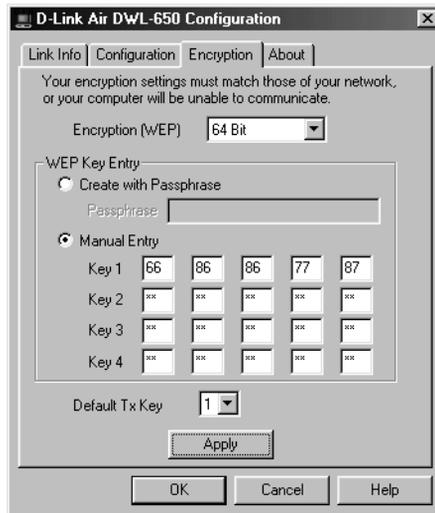
- Click the Configuration tab.



- In the Mode field, enter **Infrastructure**.
- In the SSID field, enter the word “**2WIRE**” followed by the last three digits of your HomePortal serial number. This is the Wireless Network Name. The

Wireless Network Name is case-sensitive, so it is important that you enter the word “**2WIRE**” in capital letters.

6. In the Tx Rate pulldown menu, verify that **Fully Automatic** is selected (this is the default).
7. In the PS Mode pulldown menu, verify that **Disabled** is selected (this is the default).
8. Click **Apply Changes**.
9. Click the Encryption tab.



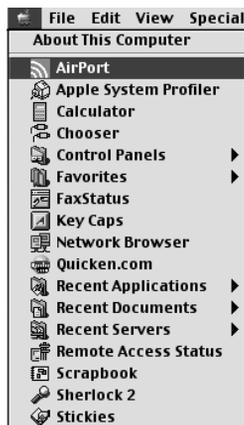
10. From the Encryption (WEP) pulldown menu, select **64-bit**.
11. In the WEP Key Entry field, click the **Manual Entry** radio button.
12. In the Key 1 field, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.
13. From the Default Tx Key pulldown, select 1.
14. Click **Apply**.
15. Click **OK**.

Apple AirPort card

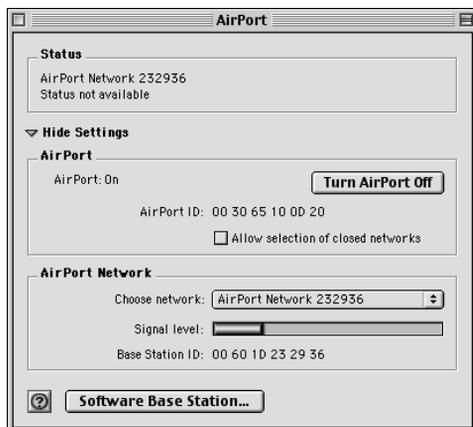
Note: Requires AirPort client software revision 2.0 or greater.

Consult the documentation provided with your wireless adapter to install the Apple AirPort wireless adapter, then follow these steps:

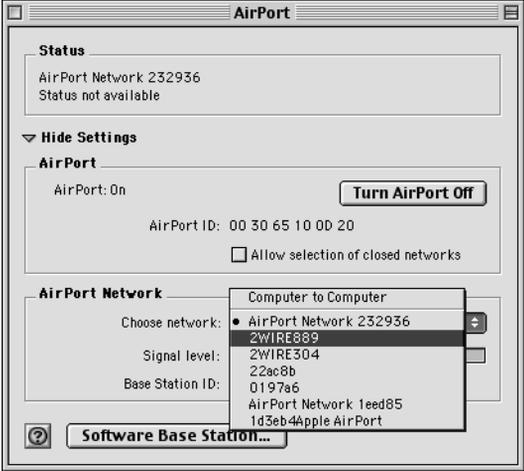
1. From the Apple pull-down menu, select **AirPort** to open the AirPort dialog box.



2. From the AirPort dialog box, click the **Choose Network: AirPort Network** pull-down menu.



- 3. From the AirPort Network pull-down menu, choose your wireless network name. Your wireless network name is “2WIRE” followed by the last three digits of your HomePortal serial number, located on the bottom of your HomePortal.



- 4. In the Password field, enter “\$” followed by your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.



- 5. Click OK.

Other wireless Ethernet adapters

***Note:** The following steps are completed using the configuration program provided with your wireless adapter. If you have not already done so, install the wireless adapter configuration software before continuing.*

1. Set the network type to **Infrastructure**.

Refer to your wireless card documentation for instructions on editing the card's network profile. Your wireless card should be configured to operate with an access point or residential gateway. This mode of operation is typically enabled by setting network type to Infrastructure.

2. Set the wireless network name.

The wireless network name of your HomePortal is **2WIRE** in all capital letters, followed by the last three digit of the HomePortal serial number located on the bottom your HomePortal. For example, if the last three digits of your HomePortal serial number are 102, your HomePortal network name would be 2WIRE102.

The wireless network name is sometimes referred to as the **Network Name**, **SSID**, **ESS ID**, or **Wireless LAN ID**.

3. Enable wireless security.

Your HomePortal is pre-configured to take advantage of wireless security. Referring to the instructions provided with your wireless card, enable wireless security.

Wireless security is sometimes referred to as **WEP** (wired equivalent privacy), **64-bit encryption**, or **40-bit encryption**.

4. Enter the encryption key.

Once you have enabled security on your wireless card, you need to enter the unique security key for your HomePortal. To do this, set the network encryption type to **hexadecimal**, and enter your 10-digit wireless encryption key found on the bottom of your HomePortal.

5. In general, accept your card's defaults.

The default value for the remainder of configurable settings for your network card should allow your wireless card to communicate with the HomePortal.

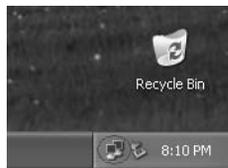
Although the HomePortal is set by default to communicate using channel 6, it is not required to change your card to this setting as most cards will automatically detect the appropriate channel.

Wireless configuration with Windows XP

Note: The following steps are completed using the configuration program provided with Windows XP. Make sure that the drivers for your adapter support Windows XP.

Windows XP is designed to handle wireless configuration in a generic fashion, provided that the manufacturer's drivers support Windows XP.

1. Right-click the **Wireless Network Connection** icon, located in the systray.



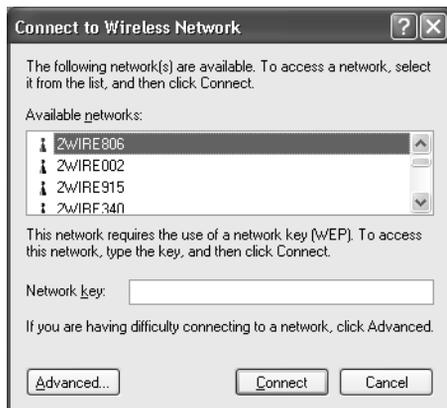
2. Select **View Available Wireless Networks**.



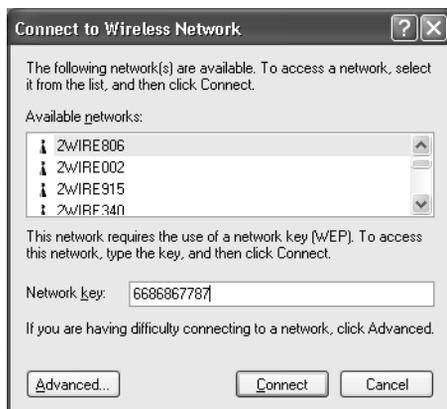
3. The Connect to Wireless Network screen appears. From the **Available networks** pane, select your wireless access point. The wireless access point

Wireless Card Configuration

displays as “2WIRE” in all capital letters, followed by the last three digit of the HomePortal serial number (located on the bottom of your HomePortal).



4. In the **Network key** pane, enter your ten-digit Wireless Encryption Key, located on the bottom of your HomePortal.



5. Click **Connect**.