



Installing the Client Adapter

This chapter provides instructions for installing the client adapter's firmware, driver, utilities, and security modules.

The following topics are covered in this chapter:

- [Installing or Upgrading the Client Adapter Software, page 3-2](#)
- [Verifying Installation, page 3-22](#)
- [Deciding How to Configure Your Client Adapter \(Windows XP Only\), page 3-22](#)
- [Selecting Among Several Installed Client Adapters, page 3-24](#)

Installing or Upgrading the Client Adapter Software

This section enables you to install or upgrade Cisco Aironet client adapter firmware, drivers, utilities, and security modules from a self-extracting executable file named Windows-Client-Installation-Wizard-*v*.exe, where *v* represents the version number.

Follow the instructions below to install or upgrade client adapter software on a computer running Windows 98, 98 SE, 2000, Me, or XP. If your computer is running Windows NT, follow the instructions on page 3-12.



Caution

The Install Wizard automatically upgrades client adapter firmware to the version included in the Install Wizard file. Both of the client adapter's LEDs light continuously while the firmware upgrade occurs. Do not eject the client adapter while the firmware is being upgraded.



Note

The Install Wizard file is not yet available on the CD that ships with Cisco Aironet client adapters. If you are installing or upgrading to versions of client adapter software that do not use the Install Wizard file, refer to version OL-1394-04 of this manual for installation, configuration, and operation instructions.

Installing or Upgrading the Client Adapter Software on Windows 98, 98 SE, 2000, Me, or XP

Follow the steps below to install or upgrade client adapter software components on a computer running Windows 98, 98 SE, 2000, Me, or XP.



Note

Windows Me and XP come with a driver that is installed automatically the first time you insert a PC, LM, or PCI card. Follow the procedure below to upgrade this driver to the latest one available.

Step 1 Use your computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>

Step 2 Select **Option #2: Aironet Wireless Software Display Tables**.



Note You can download software from the Software Selector tool instead of the display tables. To do so, select **Option #1: Aironet Wireless Software Selector**, follow the instructions on the screen, and go to **Step 6**.

Step 3 Select **Cisco Aironet Wireless LAN Client Adapters**.

Step 4 Under Aironet Client Adapter Installation Wizard (For Windows), select **Aironet Client Adapter Installation Wizard for Windows**.

Step 5 Select the Install Wizard file with the greatest version number.

Step 6 Read and accept the terms and conditions of the Software License Agreement.

Step 7 Select the file again to download it.

Step 8 Save the file to your computer's hard drive.

- Step 9** Follow the instructions in [Chapter 9](#) to insert the client adapter into your computer, if it is not already inserted. The instructions are different for PC cards, PC-Cardbus cards, and PCI cards.



Caution Do not eject your client adapter at any time during the installation process, including during the reboot.

- Step 10** If a driver is not currently installed for your client adapter, the Found New Hardware Wizard screen appears. Click **Cancel**.

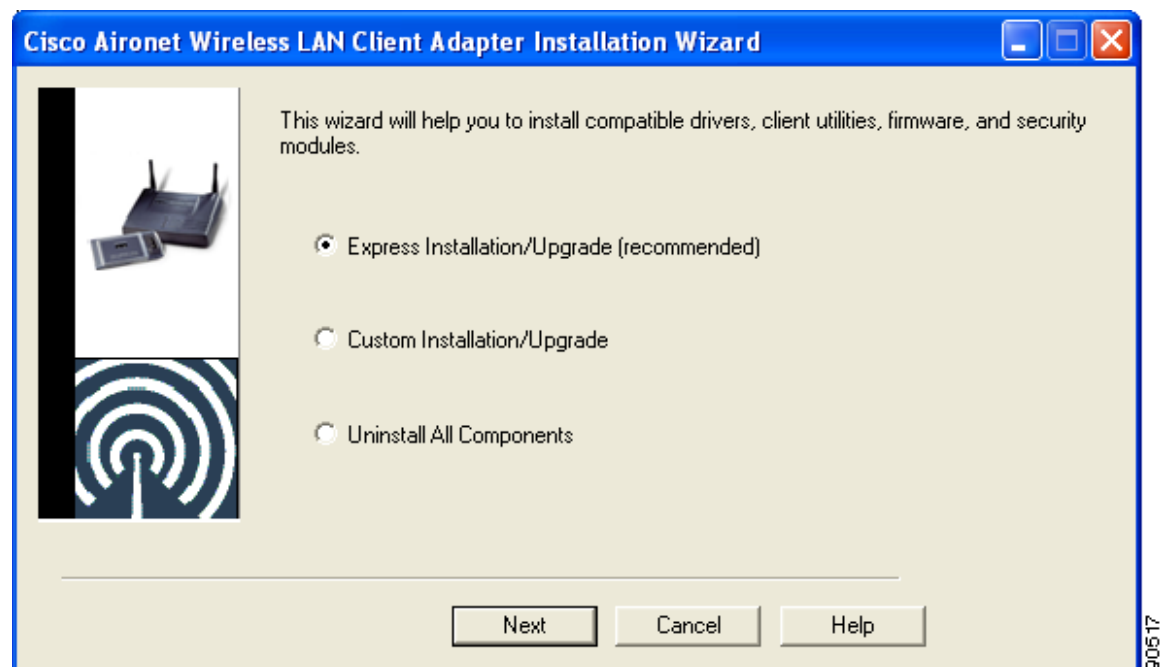
- Step 11** Find the Install Wizard file using Windows Explorer, double-click it, and extract its files to a folder.



Note To extract the files, click **Browse** on the WinZip Self-Extractor screen, select the folder in which you want the files to be placed, and click **OK** and **Unzip**. After the files are extracted, click **OK** to close the screen.

- Step 12** Close Windows Explorer. The Cisco Aironet Wireless LAN Client Adapter Installation Wizard screen appears (see [Figure 3-1](#)).

Figure 3-1 Cisco Aironet Wireless LAN Client Adapter Installation Wizard Screen



Step 13 Select one of the following options on the Cisco Aironet Wireless LAN Client Adapter Installation Wizard screen and click **Next**:



Note To ensure compatibility among software components, Cisco recommends that you perform an express installation. If you perform a custom installation, Cisco recommends that you install all components.

- **Express Installation/Upgrade (recommended)**—Silently installs the client adapter firmware, drivers, client utilities, and security modules using the default values listed in [Table 3-1](#).
- **Custom Installation/Upgrade**—Enables you to specify which software components are installed and to change the default values of certain parameters.

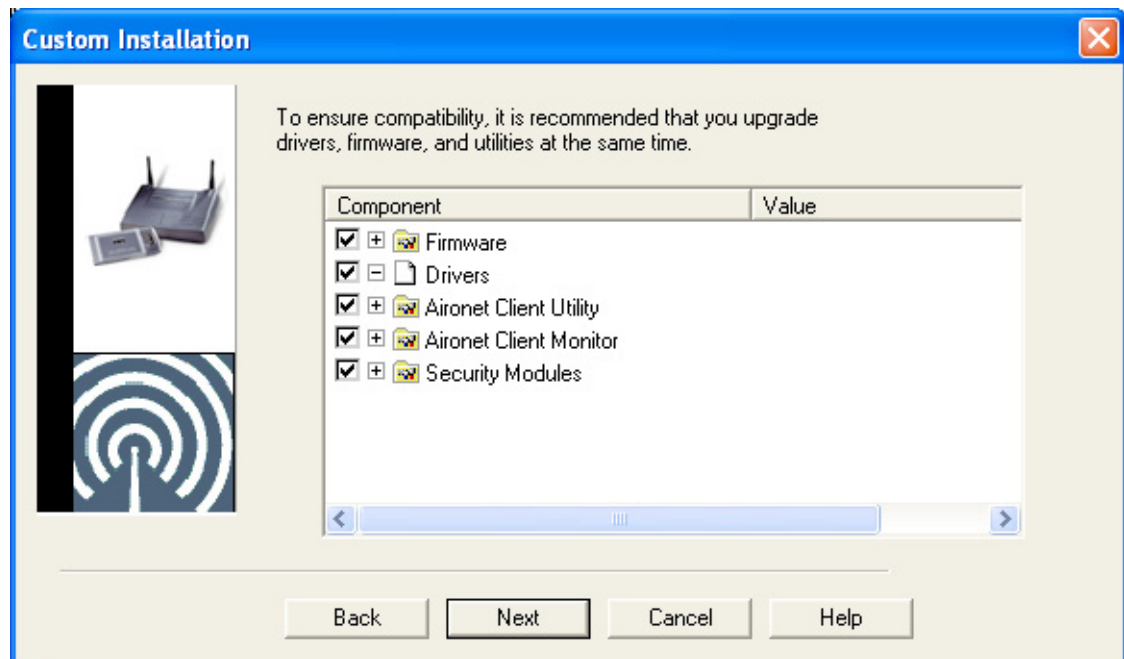
Step 14 If a message appears indicating that you may be required to restart your computer at the end of the installation process, click **OK**.



Note If you click **Cancel**, the installation process terminates.

Step 15 If you selected an express installation, go to [Step 17](#). If you selected a custom installation, the Custom Installation screen appears (see [Figure 3-2](#)).

Figure 3-2 Custom Installation Screen



Step 16 Follow the steps below to make selections on this screen.

- a. Make sure a check mark appears beside every software component that you want to install. For every component that is checked, the Install Wizard will install its version of that component. Every component that is not checked will remain as it currently is on your system.



Note Click the + sign beside the Security Modules option to reveal the available security components.



Note Some components are dependent on others. Therefore, when you select or deselect these components, the settings of other components may change. A dependency notice appears when this occurs.

- b. Click the + sign beside each component to view additional parameters. The current value of each parameter appears in the Value field.
- c. To change the value of any parameter, click its current value in the Value field. A screen appears that lets you change the existing value.
- d. Enter or select a new value and click **OK**. [Table 3-1](#) describes each component and its parameters and lists any default value.

Table 3-1 Software Components and Their Parameters

Component or Parameter	Description						
Firmware	Installs the firmware version included in the Install Wizard file. Default: Checked						
Disable Firmware Checking	<p>The Disable Firmware Checking parameter affects the firmware that is bundled with the driver, not the firmware that is included in the Install Wizard. This parameter controls whether the driver (whenever it loads) installs the firmware with which it is bundled.</p> <p>Note The driver loads each time you insert a client adapter or reboot your computer.</p> <p>Options: Yes or No</p> <p>Default: Yes</p> <table border="1"> <thead> <tr> <th>Disable Firmware Checking</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Yes</td> <td>Prevents the driver from installing the firmware with which it is bundled, enabling the client adapter to retain its current firmware version.</td> </tr> <tr> <td>No</td> <td>Causes the driver to install the firmware with which it is bundled if that firmware is newer than the firmware that is currently installed in the client adapter.</td> </tr> </tbody> </table> <p>Note The Disable Firmware Checking parameter is functionally equivalent to the Automatically Load New Firmware When NDIS Driver Is Updated parameter on the ACU Preferences screen. The parameter that is set last is the one that governs how the driver behaves. Refer to the “Preventing the Driver from Upgrading the Firmware” section on page 9-10 for additional information.</p> <p>Note The Disable Firmware Checking parameter is available in Install Wizard version 1.1 or greater.</p>	Disable Firmware Checking	Description	Yes	Prevents the driver from installing the firmware with which it is bundled, enabling the client adapter to retain its current firmware version.	No	Causes the driver to install the firmware with which it is bundled if that firmware is newer than the firmware that is currently installed in the client adapter.
Disable Firmware Checking	Description						
Yes	Prevents the driver from installing the firmware with which it is bundled, enabling the client adapter to retain its current firmware version.						
No	Causes the driver to install the firmware with which it is bundled if that firmware is newer than the firmware that is currently installed in the client adapter.						
Drivers	Installs the driver version included in the Install Wizard file. Default: Checked						
Aironet Client Utility	Installs the ACU version included in the Install Wizard file. Default: Checked						
Installation Path	Determines the path where the ACU software will be installed. You can change the default by entering a new path. Default: C:\Program Files\Cisco Systems\Aironet Client Utility						
Program Folder	Determines the program folder where the ACU software will be installed. You can change the default by entering a new folder name. Default: Cisco Systems						

Table 3-1 Software Components and Their Parameters (continued)

Component or Parameter	Description
Place Icon on Desktop	<p>Causes the installation program to add an ACU icon to your computer's desktop to provide quick access to the utility.</p> <p>Options: Yes or No</p> <p>Default: Yes</p>
Allow Non-Administrator Users to Save Settings to the Registry	<p>Enables users without administrative rights to modify profiles in ACU and save them to the registry on computers running Windows 2000 or XP.</p> <p>Options: Yes or No</p> <p>Default: Yes</p> <p>Note This option is not available for Windows 98, 98 SE, and Me because these versions of Windows do not support different classes of users.</p>
Aironet Client Monitor	<p>Installs the ACM version included in the Install Wizard file.</p> <p>Default: Checked</p>
Installation Path	<p>Determines the path where the ACM software will be installed. You can change the default by entering a new path.</p> <p>Default: C:\Program Files\Cisco Systems\Aironet Client Monitor</p>
Program Folder	<p>Determines the program folder where the ACM software will be installed. You can change the default by entering a new folder name.</p> <p>Default: Cisco Systems</p>
Auto Start	<p>Determines whether ACM starts automatically every time Windows boots.</p> <p>Options: Yes or No</p> <p>Default: Yes</p> <p>Note If you select No, you can later activate ACM by using Windows Explorer to find the path where the ACM software is installed and double-clicking ACUMon.exe.</p>
Start After Install	<p>Determines whether ACM starts automatically after ACM is installed.</p> <p>Options: Yes or No</p> <p>Default: Yes</p> <p>Note If you select No, you can later activate ACM by using Windows Explorer to find the path where the ACM software is installed and double-clicking ACUMon.exe.</p>

Table 3-1 Software Components and Their Parameters (continued)

Component or Parameter	Description																								
Program Feature Overrides	<p>Determines which ACM components are enabled. If any components are not selected now and you later want to use them, you must run this installation program again and enable them.</p> <p>Components: See the table below</p> <p>Options per component: Enable or Disable</p> <p>Default per component: Enable</p> <table border="1"> <thead> <tr> <th>Component</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>About Box (Help)</td> <td>Displays the ACM version number and enables you to access the online help.</td> </tr> <tr> <td>Exit Program</td> <td>Closes ACM for all client adapters.</td> </tr> <tr> <td>Launch Aironet Client Utility</td> <td>Activates ACU, if it is installed.</td> </tr> <tr> <td>Troubleshooting</td> <td>Activates the troubleshooting utility, which enables you to identify and resolve configuration and association problems with your client adapter.</td> </tr> <tr> <td>Preferences</td> <td>Enables you to determine when ACM runs and to select the options that appear on the ACM pop-up menu.</td> </tr> <tr> <td>Turn Radio On/Off</td> <td>Turns the client adapter's radio on or off.</td> </tr> <tr> <td>Reauthenticate</td> <td>Forces your client adapter to try to reauthenticate using the username and password of the current profile.</td> </tr> <tr> <td>Select Profile</td> <td>Enables you to select the active profile for your client adapter.</td> </tr> <tr> <td>Auto Profile Selection</td> <td>Causes the client adapter's driver to automatically select a profile from the list of profiles that were set up in ACU to be included in auto profile selection.</td> </tr> <tr> <td>Other Configuration Application</td> <td>Enables an application other than ACU to configure the client adapter.</td> </tr> <tr> <td>Show Connection Status</td> <td>Provides information on the current status of your client adapter.</td> </tr> </tbody> </table>	Component	Description	About Box (Help)	Displays the ACM version number and enables you to access the online help.	Exit Program	Closes ACM for all client adapters.	Launch Aironet Client Utility	Activates ACU, if it is installed.	Troubleshooting	Activates the troubleshooting utility, which enables you to identify and resolve configuration and association problems with your client adapter.	Preferences	Enables you to determine when ACM runs and to select the options that appear on the ACM pop-up menu.	Turn Radio On/Off	Turns the client adapter's radio on or off.	Reauthenticate	Forces your client adapter to try to reauthenticate using the username and password of the current profile.	Select Profile	Enables you to select the active profile for your client adapter.	Auto Profile Selection	Causes the client adapter's driver to automatically select a profile from the list of profiles that were set up in ACU to be included in auto profile selection.	Other Configuration Application	Enables an application other than ACU to configure the client adapter.	Show Connection Status	Provides information on the current status of your client adapter.
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Menu Options (Defaults)	<p>Determines which options are displayed on the ACM pop-up menu.</p> <p>Menu options: About Box (Help), Exit Program, Launch Aironet Client Utility, Troubleshooting, Turn Radio On/Off, Reauthenticate, Select Profile, Show Connection Status</p> <p>Options per menu option: Show or Hide</p> <p>Default per menu option: Show</p>																								

Table 3-1 Software Components and Their Parameters (continued)

Component or Parameter	Description
Security Modules	
LEAP	<p>Installs the LEAP supplicant version included in the Install Wizard file. Installing the LEAP supplicant enables you to create a profile in ACU that uses LEAP authentication. If this option is not selected now and you later want to create a profile that uses LEAP, you must run this installation program again and select this option.</p> <p>Default: Checked</p> <p>Note Refer to Chapter 5 for information on enabling LEAP.</p> <p>Note If you select LEAP on a Windows 98 or 98 SE device, a Microsoft hot fix is installed during installation of the LEAP security module to fix two problems related to the use of LEAP. Refer to Chapter 10 for more information on the hot fix.</p> <p>Note If you select LEAP on a Windows XP device, Windows XP's fast user switching feature is disabled.</p>
Allow Saved LEAP User Name and Password	<p>Enables you to create a profile in ACU that uses a saved (rather than temporary) username and password for LEAP authentication. When such a profile is used, the saved username and password are used to start the LEAP authentication process, and you are not prompted to enter them.</p> <p>Options: Yes or No</p> <p>Default: Yes</p>
EAP-SIM	<p>Installs the EAP-SIM supplicant version included in the Install Wizard file. Installing the EAP-SIM supplicant enables the client to support EAP-SIM authentication. If this option is not selected now and you later want to use EAP-SIM, you must run this installation program again and select this option.</p> <p>Default: Unchecked</p> <p>Note Refer to Chapter 5 for information on enabling EAP-SIM.</p> <p>Note To enable EAP-SIM authentication, your computer must run Windows 2000 with the Microsoft 802.1X supplicant installed or Windows XP.</p> <p>Note If you installed the new EAP-SIM supplicant from the ftpeng FTP server, make sure the EAP-SIM option is not selected. Otherwise, the EAP-SIM supplicant included in the Install Wizard file overwrites the new supplicant's settings.</p>

Table 3-1 Software Components and Their Parameters (continued)

Component or Parameter	Description
PEAP	<p data-bbox="716 317 1485 470">Installs the PEAP supplicant version included in the Install Wizard file. Installing the PEAP supplicant enables the client to support PEAP authentication. If this option is not selected now and you later want to use PEAP, you must run this installation program again and select this option.</p> <p data-bbox="716 489 951 516">Default: Unchecked</p> <p data-bbox="716 535 1403 562">Note Refer to Chapter 5 for information on enabling PEAP.</p> <p data-bbox="716 592 1463 682">Note To enable Cisco PEAP authentication, your computer must run Windows 2000 with the Microsoft 802.1X supplicant installed or Windows XP.</p> <p data-bbox="716 714 1479 989">Note Service Pack 1 for Windows XP and the Microsoft 802.1X supplicant for Windows 2000 include Microsoft's PEAP supplicant, which supports a Windows username and password only and does not interoperate with Cisco's PEAP supplicant. To use Cisco's PEAP supplicant, install the Install Wizard file after Service Pack 1 for Windows XP or the Microsoft 802.1X supplicant for Windows 2000. Otherwise, Cisco's PEAP supplicant is overwritten by Microsoft's PEAP supplicant.</p>

- e. When you are finished making selections, click **Next**.

Step 17 The installation process begins, and you are notified as each component is installed. Perform one of the following:

- If the following message appears, click **OK** and then reboot your computer: “The installation will complete and applications will be installed when a wireless LAN client adapter is inserted. If an adapter is already inserted, remove and reinsert the adapter or reboot the machine.”

The Found New Hardware screen appears. Depending on your computer's operating system, you may have to click **Next**. The driver and other software components are installed. Then an ACM icon appears in the Windows system tray (unless you changed the default value during installation).

Perform one of the following:

- If a message appears asking if you wish to reboot now, click **Yes**.



Note To ensure that your client adapter software is installed properly, Cisco recommends that you click **Yes** to reboot your computer now.

- If a message appears indicating that the system is about to reboot, click **OK** and allow your computer to restart.

- If a message appears asking if you wish to reboot now, click **Yes**.



Note To ensure that your client adapter software is installed properly, Cisco recommends that you click **Yes** to reboot your computer now.

- If a message appears indicating that the system is about to reboot, click **OK** and allow your computer to restart.

Step 18 If you want to install a second client adapter, allow your computer to reboot completely; then insert the second adapter into your computer. Depending on your computer's operating system, one of the following scenarios occurs:

- The Found New Hardware Wizard screen appears. Depending on your computer's operating system, you may have to click **Next**. The driver and other software components are installed, and another ACM icon appears in the Windows system tray. Click **Yes** or **OK** when a message appears about rebooting your computer.



Note To ensure that your client adapter software is installed properly, Cisco recommends that you reboot your computer now.

- The driver and other software components are installed, and another ACM icon appears in the Windows system tray. Click **Yes** or **OK** when a message appears about rebooting your computer.



Note To ensure that your client adapter software is installed properly, Cisco recommends that you reboot your computer now.

Step 19 If your computer is not connected to a DHCP server and you plan to use TCP/IP, follow the steps below for your operating system. If you have more than one client adapter installed, repeat this step for each adapter.

- **Windows 98, 98 SE, and Me**—Double-click **My Computer**, **Control Panel**, and **Network**. Select **TCP/IP > Cisco Systems Wireless LAN Adapter**. Click **Properties**, select **Specify an IP address**, and enter the IP address, subnet mask, and default gateway address of your computer (which can be obtained from your system administrator). Click **OK**. In the Network window, click **OK**.
- **Windows 2000**—Double-click **My Computer**, **Control Panel**, and **Network and Dial-up Connections**. Right-click **Local Area Connection x** (where *x* represents the number of the connection). Click **Properties**, **Internet Protocol (TCP/IP)**, and **Properties**. Click **Use the following IP address** and enter the IP address, subnet mask, and default gateway address of your computer (which can be obtained from your system administrator). Click **OK**. In the Local Area Connection Properties window, click **OK**.
- **Windows XP**—Right-click **Wireless Network Connection** and click **Properties**. Select **Internet Protocol (TCP/IP)** and click **Properties**. Select **Use the following IP address** and enter the IP address, subnet mask, and default gateway address of your computer (which can be obtained from your system administrator). Click **OK**.

Step 20 If you are prompted to restart your computer, click **Yes**.

Step 21 Go to the “[Verifying Installation](#)” section on page 3-22 to determine if the installation was successful. After you verify installation, go to [Chapter 4](#) if you want to create profiles for your client adapter.

Installing or Upgrading the Client Adapter Software on Windows NT

Follow the steps below to install or upgrade client adapter software components on a computer running Windows NT.



Note PC-Cardbus cards are not supported for use with Windows NT.



Note This procedure requires that your computer has Windows NT Service Pack 6 or greater.

Step 1 Use your computer's web browser to access the following URL:

<http://www.cisco.com/public/sw-center/sw-wireless.shtml>

Step 2 Select **Option #2: Aironet Wireless Software Display Tables**.



Note You can download software from the Software Selector tool instead of the display tables. To do so, select **Option #1: Aironet Wireless Software Selector**, follow the instructions on the screen, and go to [Step 6](#).

Step 3 Select **Cisco Aironet Wireless LAN Client Adapters**.

Step 4 Under Aironet Client Adapter Installation Wizard (For Windows), select **Aironet Client Adapter Installation Wizard for Windows**.

Step 5 Select the Install Wizard file with the greatest version number.

Step 6 Read and accept the terms and conditions of the Software License Agreement.

Step 7 Select the file again to download it.

Step 8 Save the file to your computer's hard drive.

Step 9 If you are installing a PC or LM card, follow the steps below to obtain an available interrupt request (IRQ):

- a. Select **Start > Programs > Administrative Tools > Windows NT Diagnostics**.
- b. Click the **Resources** tab.
- c. Click the **IRQ** button.
- d. The used IRQs are listed in numerical order along the left side of the Resources window. Write down the number of an IRQ that is not being used. You will need this IRQ for [Step 21](#).

Step 10 If you are installing a PC or LM card, double-click **My Computer**, **Control Panel**, and **Devices**. Scroll down and select **Pcmcia**. Click **Startup**, select **Automatic**, and click **OK**.

Step 11 Follow the instructions in [Chapter 9](#) to insert the client adapter into your computer if it is not already inserted. The instructions are different for PC cards and PCI cards.



Caution Do not eject your client adapter at any time during the installation process, including during the reboot.

Step 12 If the Windows NT Wizard screen appears, click **Exit**.

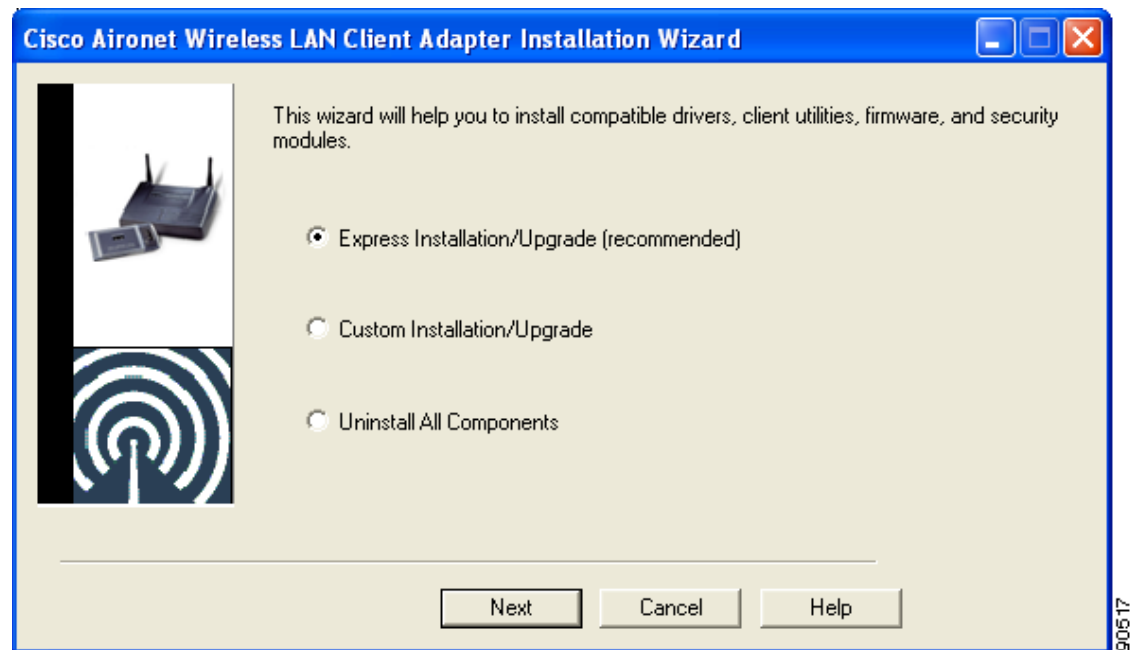
Step 13 Find the Install Wizard file using Windows Explorer, double-click it, and extract its files to a folder.



Note To extract the files, click **Browse** on the WinZip Self-Extractor screen, select the folder in which you want the files to be placed, and click **OK** and **Unzip**. After the files are extracted, click **OK** to close the screen.

Step 14 Close Windows Explorer. The Cisco Aironet Wireless LAN Client Adapter Installation Wizard screen appears (see [Figure 3-3](#)).

Figure 3-3 Cisco Aironet Wireless LAN Client Adapter Installation Wizard Screen



Step 15 Select one of the following options and click **Next**:

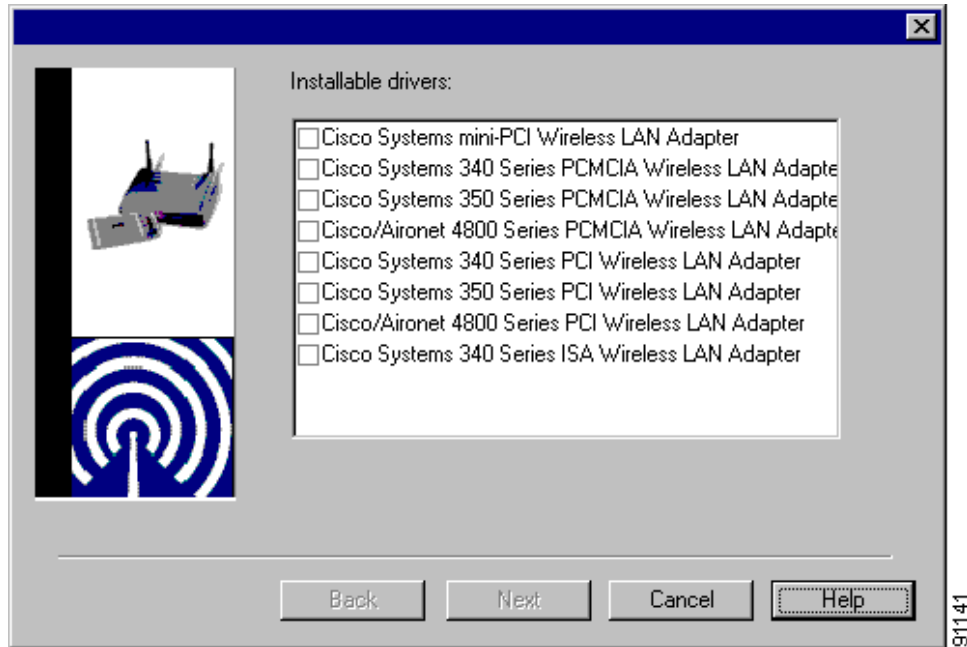


Note To ensure compatibility among software components, Cisco recommends that you perform an express installation. If you perform a custom installation, Cisco recommends that you install all components.

- **Express Installation/Upgrade (recommended)**—Silently installs the client adapter firmware, drivers, client utilities, and security modules using the default values listed in [Table 3-2](#).
- **Custom Installation/Upgrade**—Enables you to specify which software components are installed and to change the default values of certain parameters.

Step 16 A screen appears with a list of available drivers (see [Figure 3-4](#)).

Figure 3-4 Installable Drivers Screen



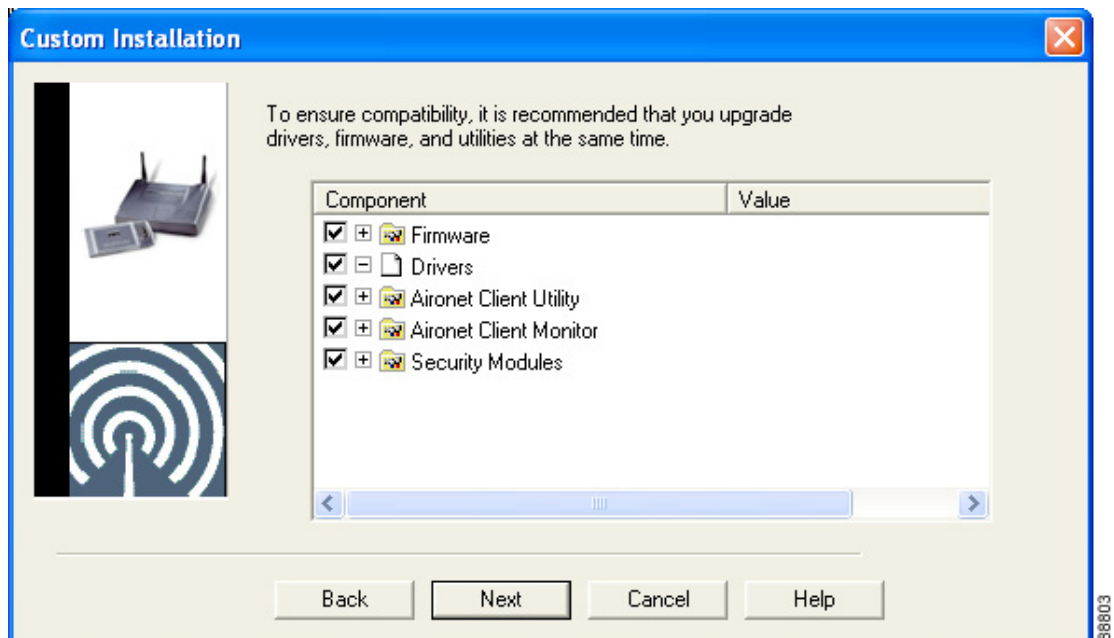
Step 17 Select the driver that corresponds to your client adapter type and click **Next**.



Note You must select a driver even if one is not being installed.

Step 18 If you selected an express installation, go to [Step 20](#). If you selected a custom installation, the Custom Installation screen appears (see [Figure 3-5](#)).

Figure 3-5 Custom Installation Screen



Step 19 Follow the steps below to make selections on this screen.

- a. Make sure a check mark appears beside every software component that you want to install. For every component that is checked, the Install Wizard will install its version of that component. Every component that is not checked will remain as it is on your system.



Note Click the + sign beside the Security Modules option to reveal the available security components.



Note Some components are dependent on others. Therefore, when you select or deselect these components, the settings of other components may change. A dependency notice appears when this occurs.

- b. Click the + sign beside each component to view additional parameters. The current value of each parameter appears in the Value field.
- c. To change the value of any parameter, click its current value in the Value field. A screen appears that lets you change the existing value.
- d. Enter or select a new value and click **OK**. [Table 3-2](#) describes each component and its parameters and lists any default value.

Table 3-2 Software Components and Their Parameters

Component or Parameter	Description						
Firmware	Installs the firmware version included in the Install Wizard file. Default: Checked						
Disable Firmware Checking	The Disable Firmware Checking parameter affects the firmware that is bundled with the driver, not the firmware that is included in the Install Wizard. This parameter controls whether the driver (whenever it loads) installs the firmware with which it is bundled. Note The driver loads each time you insert a client adapter or reboot your computer. Options: Yes or No Default: Yes						
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Disable Firmware Checking	Description						
Yes	Prevents the driver from installing the firmware with which it is bundled, enabling the client adapter to retain its current firmware version.						
No	Causes the driver to install the firmware with which it is bundled if that firmware is newer than the firmware that is currently installed in the client adapter.						
	Note This parameter is functionally equivalent to the Automatically Load New Firmware When NDIS Driver Is Updated parameter on the ACU Preferences screen. The parameter that is set last is the one that governs how the driver behaves. Refer to the “Preventing the Driver from Upgrading the Firmware” section on page 9-10 for additional information.						
	Note The Disable Firmware Checking parameter is available in Install Wizard version 1.1 or greater.						
Drivers	Installs the driver version included in the Install Wizard file. Default: Checked						
Aironet Client Utility	Installs the ACU version included in the Install Wizard file. Default: Checked						
Installation Path	Determines the path where the ACU software will be installed. You can change the default by entering a new path. Default: C:\Program Files\Cisco Systems\Aironet Client Utility						
Program Folder	Determines the program folder where the ACU software will be installed. You can change the default by entering a new folder name. Default: Cisco Systems						

Table 3-2 Software Components and Their Parameters (continued)

Component or Parameter	Description
Place Icon on Desktop	Causes the installation program to add an ACU icon to your computer's desktop to provide quick access to the utility. Options: Yes or No Default: Yes
Allow Non-Administrator Users to Save Settings to the Registry	Enables users without administrative rights to modify profiles in ACU and save them to the registry. Options: Yes or No Default: Yes
Aironet Client Monitor	Installs the ACM version included in the Install Wizard file. Default: Checked
Installation Path	Determines the path where the ACM software will be installed. You can change the default by entering a new path. Default: C:\Program Files\Cisco Systems\Aironet Client Monitor
Program Folder	Determines the program folder where the ACM software will be installed. You can change the default by entering a new folder name. Default: Cisco Systems
Auto Start	Determines whether ACM starts automatically every time Windows boots. Options: Yes or No Default: Yes
Start After Install	Determines whether ACM starts automatically after ACM is installed. Options: Yes or No Default: Yes

Table 3-2 Software Components and Their Parameters (continued)

Component or Parameter	Description																								
Program Feature Overrides	<p>Determines which ACM components are enabled. If any components are not selected now and you later want to use them, you must run this installation program again and enable them.</p> <p>Components: See the table below</p> <p>Options per component: Enable or Disable</p> <p>Default per component: Enable</p> <table border="1"> <thead> <tr> <th>Component</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>About Box (Help)</td> <td>Displays the ACM version number and enables you to access the online help.</td> </tr> <tr> <td>Exit Program</td> <td>Closes ACM for all client adapters.</td> </tr> <tr> <td>Launch Aironet Client Utility</td> <td>Activates ACU, if it is installed.</td> </tr> <tr> <td>Troubleshooting</td> <td>Activates the troubleshooting utility, which enables you to identify and resolve configuration and association problems with your client adapter.</td> </tr> <tr> <td>Preferences</td> <td>Enables you to determine when ACM runs and to select the options that appear on the ACM pop-up menu.</td> </tr> <tr> <td>Turn Radio On/Off</td> <td>Turns the client adapter's radio on or off.</td> </tr> <tr> <td>Reauthenticate</td> <td>Forces your client adapter to try to reauthenticate using the username and password of the current profile.</td> </tr> <tr> <td>Select Profile</td> <td>Enables you to select the active profile for your client adapter.</td> </tr> <tr> <td>Auto Profile Selection</td> <td>Causes the client adapter's driver to automatically select a profile from the list of profiles that were set up in ACU to be included in auto profile selection.</td> </tr> <tr> <td>Other Configuration Application</td> <td>Enables an application other than ACU to configure the client adapter.</td> </tr> <tr> <td>Show Connection Status</td> <td>Provides information on the current status of your client adapter.</td> </tr> </tbody> </table>	Component	Description	About Box (Help)	Displays the ACM version number and enables you to access the online help.	Exit Program	Closes ACM for all client adapters.	Launch Aironet Client Utility	Activates ACU, if it is installed.	Troubleshooting	Activates the troubleshooting utility, which enables you to identify and resolve configuration and association problems with your client adapter.	Preferences	Enables you to determine when ACM runs and to select the options that appear on the ACM pop-up menu.	Turn Radio On/Off	Turns the client adapter's radio on or off.	Reauthenticate	Forces your client adapter to try to reauthenticate using the username and password of the current profile.	Select Profile	Enables you to select the active profile for your client adapter.	Auto Profile Selection	Causes the client adapter's driver to automatically select a profile from the list of profiles that were set up in ACU to be included in auto profile selection.	Other Configuration Application	Enables an application other than ACU to configure the client adapter.	Show Connection Status	Provides information on the current status of your client adapter.
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Menu Options (Defaults)	<p>Determines which options are displayed on the ACM pop-up menu.</p> <p>Menu options: About Box (Help), Exit Program, Launch Aironet Client Utility, Troubleshooting, Turn Radio On/Off, Reauthenticate, Select Profile, Show Connection Status</p> <p>Options per menu option: Show or Hide</p> <p>Default per menu option: Show</p>																								

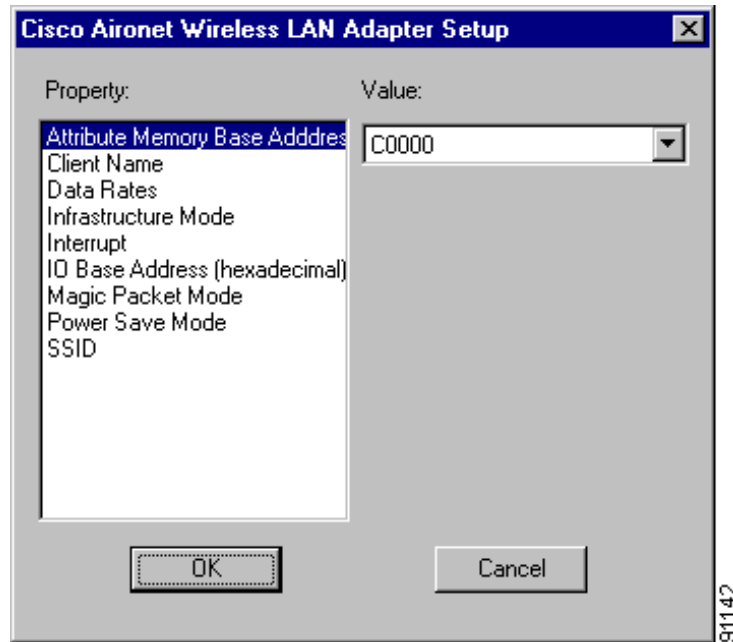
Table 3-2 Software Components and Their Parameters (continued)

Component or Parameter	Description
Security Modules	
LEAP	<p>Installs the LEAP supplicant version included in the Install Wizard file. Installing the LEAP supplicant enables you to create a profile in ACU that uses LEAP authentication. If this option is not selected now and you later want to create a profile that uses LEAP, you must run this installation program again and select this option.</p> <p>Default: Checked</p> <p>Note Refer to Chapter 5 for information on enabling LEAP.</p>
Allow Saved LEAP User Name and Password	<p>Enables you to create a profile in ACU that uses a saved (rather than temporary) username and password for LEAP authentication. When such a profile is used, the saved username and password are used to start the LEAP authentication process, and you are not prompted to enter them.</p> <p>Options: Yes or No</p> <p>Default: Yes</p>
EAP-SIM	<p>Installs the EAP-SIM supplicant version included in the Install Wizard file. Installing the EAP-SIM supplicant enables the client to support EAP-SIM authentication. If this option is not selected now and you later want to use EAP-SIM, you must run this installation program again and select this option.</p> <p>Default: Unchecked</p> <p>Note The Microsoft 802.1X supplicant does not support EAP-SIM authentication on Windows NT; therefore, EAP-SIM cannot be enabled for this operating system.</p> <p>Note If you installed the new EAP-SIM supplicant from the ftpeng FTP server, make sure the EAP-SIM option is not selected. Otherwise, the EAP-SIM supplicant included in the Install Wizard file overwrites the new supplicant's settings.</p>
PEAP	<p>Installs the PEAP supplicant version included in the Install Wizard file. Installing the PEAP supplicant enables the client to support PEAP authentication. If this option is not selected now and you later want to use PEAP, you must run this installation program again and select this option.</p> <p>Default: Unchecked</p> <p>Note The Microsoft 802.1X supplicant does not support Cisco PEAP authentication on Windows NT; therefore, Cisco PEAP cannot be enabled for this operating system.</p>

- e. When you are finished making selections, click **Next**.

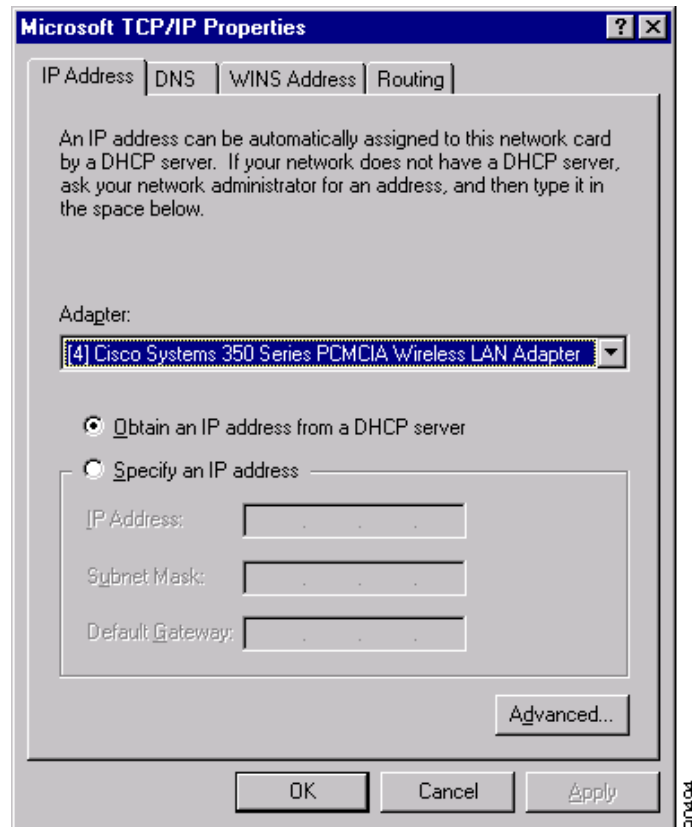
- Step 20** The wizard starts to copy files, and the Cisco Aironet Wireless LAN Adapter Setup screen appears (see [Figure 3-6](#)).

Figure 3-6 Cisco Aironet Wireless LAN Adapter Setup Screen



- Step 21** If you are installing a PC or LM card, select **Interrupt** in the Property list and an unused interrupt (from [Step 9](#)) in the Value field and click **OK**. If you are installing a PCI or mini PCI card, click **OK**.
- Step 22** Messages appear as binding configurations are stored. Then the Microsoft TCP/IP Properties screen appears (see [Figure 3-7](#)).

Figure 3-7 Microsoft TCP/IP Properties Screen



Step 23 On the IP Address tab, find and select the client adapter that you are installing under Adapter.

Step 24 Perform one of the following:

- If your computer is connected to a DHCP server, select **Obtain an IP address from a DHCP server**. When asked if you want to enable DHCP, click **Yes** and **OK**.
- If your computer is not connected to a DHCP server and you plan to use TCP/IP, select **Specify an IP address** and enter the IP address, subnet mask, and default gateway address of your computer (which can be obtained from your system administrator). Click **OK**.

The installation process begins, and you are notified as each component is installed.

Step 25 Windows NT must be rebooted in order for your changes to take effect. Click **Yes** when a message appears asking if you wish to reboot now.



Caution

To prevent unpredictable results, Cisco recommends that you click **Yes** to reboot your computer now.

Step 26 If you want to install a second client adapter, allow your computer to completely reboot; then repeat the steps in this section for the second adapter.



Note In [Step 13](#), find the Install Wizard files using Windows Explorer. Then double-click the **Setup.exe** file.

Step 27 Go to the [“Verifying Installation”](#) section below to determine if the installation was successful. After you verify installation, go to [Chapter 4](#) if you want to create profiles for your client adapter.

Verifying Installation

To verify that you have properly installed the client adapter software, check the client adapter’s LEDs. If the installation was successful, the client adapter’s green LED blinks.



Note If your installation was unsuccessful or you experienced problems during or after installation, refer to [Chapter 10](#) for troubleshooting information.

Now that your client adapter is properly installed, you are ready to go to [Chapter 4](#) to create profiles for your client adapter, unless you are running Windows XP or have more than one client adapter installed.

- If you are running Windows XP, go to the [“Deciding How to Configure Your Client Adapter \(Windows XP Only\)”](#) section below.
- If you have more than one client adapter installed, go to the [“Selecting Among Several Installed Client Adapters”](#) section on page 3-24.

Deciding How to Configure Your Client Adapter (Windows XP Only)

Windows XP is the only operating system that enables you to configure your client adapter without using ACU. Therefore, if your computer is running Windows XP, you must decide whether to configure your client adapter through Windows XP or ACU. To help you with your decision, [Table 3-3](#) compares the Windows XP and ACU client adapter features.

Table 3-3 Comparison of Windows XP and ACU Client Adapter Features

Feature	Windows XP	ACU
Configuration parameters	Limited	Extensive
Capabilities		
Create profiles	No	Yes
Upgrade radio firmware	No	Yes
Restart client adapter without rebooting or ejecting card	No	Yes
Turn radio on or off	No	Yes

Table 3-3 Comparison of Windows XP and ACU Client Adapter Features (continued)

Feature	Windows XP	ACU
Security		
Static WEP	Yes	Yes
LEAP authentication with dynamic WEP	No	Yes
Host-based EAP authentication with static or dynamic WEP	Yes	Yes
Diagnostics		
Status screen	Limited	Extensive
Statistics screen (transmit & receive)	No	Yes
Site survey tool	No	Yes
RF link test tool	No	Yes
Link status meter (graphical display)	No	Yes

Perform one of the following:

- If you are planning to configure your client adapter through ACU instead of through Windows XP, follow the steps below:
 - a. Double-click **My Computer**, **Control Panel**, and **Network Connections**.
 - b. Right-click **Wireless Network Connection** and click **Properties**.
 - c. Select the **Wireless Networks** tab and uncheck the **Use Windows to configure my wireless network settings** check box.
 - d. Select the **Authentication** tab.



Note

In Service Pack 1 for Windows XP, the Authentication tab has moved from its previous location. To access it, click the **Wireless Networks** tab, select the network that you are configuring in the Preferred network list, and click **Properties**.

- e. Uncheck the **Enable network access control using IEEE 802.1X** check box.
 - f. Follow the instructions in [Chapter 4](#) and [Chapter 5](#) to configure your client adapter through ACU.
- If you are planning to configure your client adapter through Windows XP instead of through ACU, go to [Appendix E](#) and follow the instructions there.
 - If you are planning to configure your client adapter through Windows XP but you want to use ACU's diagnostic tools, go to [Appendix E](#) to configure the adapter through Windows XP; then follow the instructions in [Chapter 7](#) to use ACU's diagnostic tools.

Selecting Among Several Installed Client Adapters

If more than one client adapter is installed in your computer, follow the instructions below to specify the one for which you want to set up profiles in ACU.

- Step 1** Double-click the **Aironet Client Utility (ACU)** icon on your desktop or double-click **My Computer > Control Panel > Aironet Client Utility** to open ACU. The Select A Wireless LAN Adapter Card screen appears (see [Figure 3-8](#)).



Note The Select A Wireless LAN Adapter Card screen appears when you start ACU if more than one card is inserted in your computer or no cards are inserted but more than one card is installed.

Figure 3-8 Select A Wireless LAN Adapter Card Screen



- Step 2** Select the card you wish to configure from the list of available cards and click **OK**.
- Step 3** Go to [Chapter 4](#) to create profiles for this card.