



Installing the Client Adapter

This chapter provides instructions for installing the client adapter driver and the client utility.

The following topics are covered in this chapter:

- [Determining the Latest Versions of the Driver and ACU, page 3-2](#)
- [Installing the Driver, page 3-3](#)
- [Installing ACU, page 3-16](#)
- [Verifying Installation, page 3-19](#)

Determining the Latest Versions of the Driver and ACU

The driver and the Aironet Client Utility (ACU) are provided on the Cisco Aironet Wireless LAN Client Adapters CD that shipped with the client adapter; however, a more recent version of each may be available from Cisco.com. Cisco recommends installing the most current versions of the driver and ACU.



Note

Although the client adapter is shipped with the firmware installed, you may want to check Cisco.com to see if a more recent version is available. [Chapter 8](#) provides instructions for determining the version of your client adapter's firmware and upgrading it if necessary.

Follow the steps below to determine the most recent versions of the driver and ACU on your CD and Cisco.com.

Step 1

To determine the version of the driver and ACU on the Cisco Aironet Wireless LAN Client Adapters CD, open the FileList.txt file on the CD's root directory. This file lists the version numbers for all of the software files provided on the CD.



Note

If the FileList.txt file is not present on the root directory, your CD is obsolete, and more recent versions of the software are available on Cisco.com. Go to the [“Installing the Driver” section on page 3-3](#).

Step 2

To determine the latest driver and ACU versions available on Cisco.com, follow the steps below:

- a. Use your computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
- b. Locate the section for client adapter drivers and utilities.
- c. Locate the drivers for your specific operating system and client adapter type and find the one with the greatest release number. This is the latest available version on Cisco.com.



Note

The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.

- d. Locate the ACU files and find the one with the greatest release number. This is the latest available version on Cisco.com.

Step 3

Go to the [“Installing the Driver” section on page 3-3](#). If the driver version on Cisco.com is greater than the version on the CD, follow the instructions for installing the driver from Cisco.com.

Step 4

After you install the driver, go to the [“Installing ACU” section on page 3-16](#). If the ACU version on Cisco.com is greater than the version on the CD, follow the instructions for installing ACU from Cisco.com.

Installing the Driver



Note

This procedure is meant to be used the first time the driver is installed on a computer running Windows 95, 98, NT, 2000, Me, or XP. If a Cisco Aironet client adapter driver is already installed on your computer, follow the instructions in [Chapter 8](#) to upgrade to a new driver. However, if the 6.10 driver is installed on your Windows 95, 98, NT, or 2000 computer, you must remove this driver before you can install a more recent driver. Refer to the [“Uninstalling the 6.10 Driver”](#) section on page 8-13 for instructions.

The driver you use for your client adapter depends on which operating system your computer is running and your client adapter type. This section provides instructions for installing the correct driver for your operating system. Use [Table 3-1](#) to quickly locate the installation instructions for your specific operating system.

Table 3-1 Locating Driver Installation Instructions

Operating System	Page Number
Windows 95	3-3
Windows 98	3-7
Windows NT	3-9
Windows 2000	3-10
Windows Millennium Edition (Me)	3-12
Windows XP	3-13



Note

Before you begin the driver installation process, make sure you have the installation disks for your computer’s operating system nearby. Some operating system files may be needed to complete the driver installation.

Installing the Driver for Windows 95



Note


Windows 95 limits your computer’s network connections to four. If you try to install a client adapter when four network devices (such as a PCMCIA Ethernet card, dial-up adapter, VPN adapter, docking station Ethernet card, etc.) are already connected to your computer, the new adapter cannot establish a network connection.

The driver installation instructions vary for Windows 95 Version A and Version B. You can determine which version your computer is running by double-clicking **My Computer**, **Control Panel**, **System**, and **General**. The version of your computer’s operating system is located under the System heading. If you have Windows 95 Version B, the version number ends with the letter *B*.

- For Windows 95 Version A driver installation instructions, go to the [“Windows 95 Version A”](#) section on page 3-4.
- For Windows 95 Version B driver installation instructions, go to the [“Windows 95 Version B”](#) section on page 3-5.

Windows 95 Version A

If your computer's operating system is Windows 95 Version A, follow these steps.

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- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- a. Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - b. Locate the section for client adapter drivers and utilities.
 - c. Click the link for individual Windows files.
 - d. Select the latest driver file for Windows 95 and your client adapter type.
-  **Note** The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.
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- e. Read and accept the terms and conditions of the Software License Agreement.
 - f. Select the driver file to download it.
 - g. Save the file to a floppy disk or to your computer's hard drive.
 - h. Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - i. Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** After you insert the client adapter into your computing device, Windows automatically detects it and opens the New Hardware Found window.
- Step 4** Select **Driver from disk provided by hardware manufacturer** and click **OK**.
- Step 5** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.
- Step 6** In the Install From Disk window, enter the path to where the driver is located (CD, floppy disk, or hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\Win95.
- Step 7** Click **OK**.
- Step 8** If you are prompted to insert the Windows 95 operating system disk, click **OK** and do one of the following:
- If the Windows 95 operating system files are installed on your computer, they are usually located in the C:\Windows\Options\Cabs folder. Type **C:\Windows\Options\Cabs** in the Copy files from dialog box. Click **OK** to copy the required files.
 - If Windows 95 prompts for the Windows 95 operating system CD, insert this CD into your computer's CD-ROM drive. If your CD-ROM drive is drive D, the path in the dialog box should be D:\Win95. Click **OK** to copy the required files.
- Step 9** After the files are copied, remove any disks from your computer.
- Step 10** Double-click **My Computer**, **Control Panel**, and **Network**.
- Step 11** Select the Cisco Systems wireless LAN adapter and click **Properties**.
- Step 12** In the client adapter Properties window, click the **Advanced** tab.

- Step 13** Select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 14** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 15** Click **OK**.
- Step 16** If you are prompted to restart your computer, click **Yes**.
- Step 17** If your computer is not connected to a DHCP server and you plan to use TCP/IP, double-click **My Computer**, **Control Panel**, and **Network**. Select **TCP/IP > Cisco Systems Wireless LAN Adapter**. Click the **Properties** button, 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** twice. When prompted to restart your computer, click **Yes**.





Note On Windows 95, TCP/IP is not installed by default.

The driver installation is complete.

Windows 95 Version B

If your computer's operating system is Windows 95 Version B, follow these steps.

- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- a. Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - b. Locate the section for client adapter drivers and utilities.
 - c. Click the link for individual Windows files.
 - d. Select the latest driver file for Windows 95 and your client adapter type.
-  **Note** The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.
- e. Read and accept the terms and conditions of the Software License Agreement.
 - f. Select the driver file to download it.
 - g. Save the file to a floppy disk or to your computer's hard drive.
 - h. Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - i. Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** After you insert the client adapter into your computing device, Windows automatically detects it and briefly opens the New Hardware Found window.
- Step 4** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.


- Step 5** The Update Device Driver Wizard dialog box opens and indicates that Windows will complete the installation of the client adapter. Click **Next**.
- Step 6** If the Update Device Driver Wizard indicates that Windows was unable to locate a driver for the client adapter, click **Other Locations**.
- Step 7** In the Select Other Location window, enter the path to where the driver is located (CD, floppy disk, or hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\Win95.
- Step 8** Click **OK**.
- Step 9** When the Update Device Driver Wizard indicates that it has found the driver, click **Finish**.
- Step 10** When the Insert Disk window appears prompting you to insert the Aironet Wireless LAN Adapter Installation Disk, click **OK**.
- Step 11** If a window appears indicating that the pcx500.sys file could not be found, enter the same path that you entered in [Step 7](#) and click **OK**.
- Step 12** If you are prompted to insert the Windows 95 operating system disk, click **OK** and do one of the following:
- If the Windows 95 operating system files are installed on your computer, they are usually located in the C:\Windows\Options\Cabs folder. Type **C:\Windows\Options\Cabs** in the Copy files from dialog box. Click **OK** to copy the required files.
 - If Windows 95 prompts for the Windows 95 operating system CD, insert this CD into your computer's CD-ROM drive. If your CD-ROM drive is drive D, the path in the dialog box should be D:\Win95. Click **OK** to copy the required files.
- Step 13** When prompted to restart your computer, remove any disks and click **Yes**.
- Step 14** When the computer restarts, double-click **My Computer**, **Control Panel**, and **Network**.
- Step 15** Select the Cisco Systems wireless LAN adapter and click **Properties**.
- Step 16** In the client adapter Properties window, click the **Advanced** tab.
- Step 17** Select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 18** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 19** Click **OK**.
- Step 20** If your computer is not connected to a DHCP server and you plan to use TCP/IP, double-click **My Computer**, **Control Panel**, and **Network**. Select **TCP/IP > Cisco Systems Wireless LAN Adapter**. Click the **Properties** button, 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**.
-  **Note** On Windows 95, TCP/IP is not installed by default.
- Step 21** In the Network window, click **OK**.
- Step 22** When prompted to restart your computer, click **Yes**.
- The driver installation is complete.
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Installing the Driver for Windows 98



Note Windows 98 limits your computer's network connections to eight. If you try to install a client adapter when eight network devices (such as a PCMCIA Ethernet card, dial-up adapter, VPN adapter, docking station Ethernet card, etc.) are already connected to your computer, the new adapter cannot establish a network connection.

If your computer's operating system is Windows 98, follow these steps.

- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - Locate the section for client adapter drivers and utilities.
 - Click the link for individual Windows files.
 - Select the latest driver file for Windows 98 and your client adapter type.
-  **Note** The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.
- Read and accept the terms and conditions of the Software License Agreement.
 - Select the driver file to download it.
 - Save the file to a floppy disk or to your computer's hard drive.
 - Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** After you insert the client adapter into your computing device, Windows automatically detects it, briefly opens the New Hardware Found window, and starts collecting information for a driver information database.
- The Add New Hardware Wizard dialog box opens and indicates that Windows is searching for new drivers.
- Step 4** Click **Next**. Another dialog box opens and asks what you want Windows to do.
- Step 5** Select **Display a list of all the drivers in a specific location, so you can select the driver you want** and click **Next**.
- Step 6** Select **Network adapters** from the drop-down list of devices and click **Next**.
- Step 7** Click **Have Disk**.
- Step 8** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.

- Step 9** Enter or browse to the path where the driver is located (CD, floppy disk, or hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\Win98.
- Step 10** Click **OK**.
- Step 11** Make sure the Cisco Systems wireless LAN adapter is selected in the Select Device screen and click **OK**. The wizard finds the installation files and displays the search results.
- Step 12** When the client adapter driver is displayed, click **Next** to copy the required files.
- Step 13** During driver installation, you may be prompted to enter a path to the Windows 98 operating system files. If so, do one of the following:
- If the Windows 98 operating system files are installed on your computer, they are usually located in the C:\Windows\Options\Cabs folder. Type **C:\Windows\Options\Cabs** in the Copy files from dialog box. Click **OK** to copy the required files.
 - If Windows 98 prompts for the Windows 98 operating system CD, insert this CD into your computer's CD-ROM drive. If your CD-ROM drive is drive D, the path in the dialog box should be D:\Win98. Click **OK** to copy the required files.
- Step 14** The Add New Hardware Wizard window opens and indicates that the installation is complete. Click **Finish**.
- Step 15** When prompted to restart your computer, remove the CD or floppy disk (if installed) and click **Yes**.
- Step 16** When the computer restarts, double-click **My Computer**, **Control Panel**, and **Network**.
- Step 17** Select the Cisco Systems wireless LAN adapter and click **Properties**.
- Step 18** In the client adapter Properties window, click the **Advanced** tab.
- Step 19** Select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 20** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 21** Click **OK**.
- Step 22** If your computer is not connected to a DHCP server and you plan to use TCP/IP, double-click **My Computer**, **Control Panel**, and **Network**. Select **TCP/IP > Cisco Systems Wireless LAN Adapter**. Click the **Properties** button, 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**.
- Step 23** In the Network window, click **OK**.
- Step 24** When prompted to restart your computer, click **Yes**.
The driver installation is complete.
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Installing the Driver for Windows NT



Note This procedure requires that your computer has Windows NT Service Pack 3 or greater.

If your computer's operating system is Windows NT, follow these steps.

- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - Locate the section for client adapter drivers and utilities.
 - Click the link for individual Windows files.
 - Select the latest driver file for Windows NT and your client adapter type.



Note The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.

- Read and accept the terms and conditions of the Software License Agreement.
 - Select the driver file to download it.
 - Save the file to a floppy disk or to your computer's hard drive.
 - Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** After you insert the client adapter into your computer, an error message may appear indicating that at least one service or driver failed during system setup. If this message appears, click **OK**.
- Step 4** Follow the steps below to obtain an available interrupt request (IRQ):
- Select **Start > Programs > Administrative Tools > Windows NT Diagnostics**.
 - Click the **Resources** tab.
 - 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 15](#).
- Step 5** On your computer desktop, double-click **My Computer**, **Control Panel**, and **Devices**. Scroll down and select **Pcmcia**. Click **Startup**, select **Automatic**, and click **OK**.




Note For PC cards, also ensure that the Cardbus service is deselected.

- Step 6** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.
- Step 7** Double-click **My Computer**, **Control Panel**, and **Network**.
- Step 8** Click the **Adapters** tab and select **Add**.
- Step 9** In the Select Network Adapter window, click **Have Disk**.

- Step 10** In the Insert Disk window, enter the path to where the driver is located (CD, floppy disk, or hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\WinNT4.
- Step 11** Click **OK**.
- Step 12** In the Select OEM Option box, select the Cisco Systems wireless LAN adapter and click **OK**.
- Step 13** In the Adapter Setup window, select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 14** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 15** Enter an available IRQ number, which you obtained in [Step 4](#).
- Step 16** Click **OK** and **Close**.
- Step 17** The Microsoft TCP/IP Properties window should open. If it does not open, double-click **My Computer**, **Control Panel**, and **Network**. Click **Protocols**, **TCP/IP**, and **Properties**.
- Step 18** 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, 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**.
- Step 19** When prompted to restart your computer, remove the CD or floppy disk (if installed) and click **Yes**.
The driver installation is complete.
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Installing the Driver for Windows 2000

If your computer's operating system is Windows 2000, follow these steps.

- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- a. Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - b. Locate the section for client adapter drivers and utilities.
 - c. Click the link for individual Windows files.
 - d. Select the latest driver file for Windows 2000 (Win2K) and your client adapter type.
-  **Note** The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.
- e. Read and accept the terms and conditions of the Software License Agreement.
 - f. Select the driver file to download it.
 - g. Save the file to a floppy disk or to your computer's hard drive.

- h. Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - i. Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** After you insert the client adapter into your computer, Windows 2000 automatically detects it and briefly opens the Found New Hardware window.

The Found New Hardware Wizard window opens and indicates that the wizard will help you to install the driver.
- Step 4** Click **Next**. Another window opens and asks what you want the wizard to do.
- Step 5** Select **Display a list of the known drivers for this device so that I can choose a specific driver** and click **Next**.
- Step 6** Click **Have Disk**.
- Step 7** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.
- Step 8** Enter or browse to the path where the driver is located (CD, floppy disk, or hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\Win2000.
- Step 9** Click **OK**. The wizard finds the installation files and displays the search results.
- Step 10** When the client adapter driver is displayed, click **Next** to copy the required files.
- Step 11** When you receive a message indicating that Windows has finished the installation, click **Finish**.
- Step 12** Remove the CD or floppy disk (if installed).
- Step 13** Double-click **My Computer**, **Control Panel**, and **System**.
- Step 14** In the System Properties window, click the **Hardware** tab.
- Step 15** Click **Device Manager**.
- Step 16** In the Device Manager window, double-click **Network Adapters**.
- Step 17** Right-click the Cisco Systems wireless LAN adapter.
- Step 18** Click **Properties**.
- Step 19** In the client adapter Properties window, click the **Advanced** tab.
- Step 20** In the Advanced window, select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 21** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 22** Click **OK**.
- Step 23** If your computer is not connected to a DHCP server and you plan to use TCP/IP, follow these steps:
 - a. Double-click **My Computer**, **Control Panel**, and **Network and Dial-up Connections**.
 - b. Right-click **Local Area Connection**.
 - c. Click **Properties**, **Internet Protocol (TCP/IP)**, and **Properties**.
 - d. 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**.
 - e. In the Local Area Connection Properties window, click **OK**.

- Step 24** If you are prompted to restart your computer, click **Yes**.
The driver installation is complete.
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Installing the Driver for Windows Millennium Edition (Me)

The first release of Windows Me comes with driver version 6.15, which is installed automatically the first time you insert a client adapter. To upgrade to the driver provided on the Cisco Aironet Wireless LAN Client Adapters CD or on Cisco.com, follow these steps.

- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - Locate the section for client adapter drivers and utilities.
 - Click the link for individual Windows files.
 - Select the latest driver file for Windows Me and your client adapter type.



Note The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.

- Read and accept the terms and conditions of the Software License Agreement.
 - Select the driver file to download it.
 - Save the file to a floppy disk or to your computer's hard drive.
 - Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.
- Step 4** Double-click **My Computer**, **Control Panel**, and **System**.
- Step 5** Click the **Device Manager** tab.
- Step 6** Double-click **Network Adapters**.
- Step 7** Select the Cisco Aironet wireless LAN adapter. Click **Properties**.
- Step 8** In the client adapter Properties window, click the **Driver** tab.
- Step 9** Click **Update Driver**. The Update Device Driver Wizard window appears.
- Step 10** Select **Specify the location of the driver (Advanced)** and click **Next**.
- Step 11** Select **Search for a better driver than the one your device is using now (Recommended)**.
- Step 12** Make sure the **Removable Media** checkbox is deselected.
- Step 13** Select the **Specify a location** checkbox and click **Browse**.

- Step 14** Find the location of the driver (on your CD, floppy disk, or computer's hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\WinME.
- Step 15** Click **Next**.
- Step 16** When asked what you would like to install, select **The updated driver (recommended)** and click **Next**.
- Step 17** When a screen appears indicating the driver that will be installed and its location, click **Next**.
- Step 18** If Windows cannot find the pcx500.sys file, enter the same path that you browsed to in [Step 14](#) and click **OK**.
- Step 19** When you are notified that the installation is complete, click **Finish**.
- Step 20** When you are prompted to restart your computer, remove the CD or floppy disk (if installed) and click **No**.
- Step 21** Double-click **My Computer**, **Control Panel**, and **Network**.
- Step 22** Select the Cisco Systems wireless LAN adapter. Click **Properties**.
- Step 23** In the client adapter Properties window, click the **Advanced** tab.
- Step 24** In the Advanced window, select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 25** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 26** Click **OK**.
- Step 27** If your computer is not connected to a DHCP server and you plan to use TCP/IP, double-click **My Computer**, **Control Panel**, and **Network**. Select **TCP/IP > Cisco Systems Wireless LAN Adapter**. Click the **Properties** button, 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**.
- Step 28** In the Network window, click **OK**.
- Step 29** When prompted to restart your computer, click **Yes**.
- The driver installation is complete.
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Installing the Driver for Windows XP

The first release of Windows XP comes with driver version 7.29, which is installed automatically the first time you insert a client adapter. To upgrade to the driver provided on the Cisco Aironet Wireless LAN Client Adapters CD or on Cisco.com, follow these steps.



Note If you do not upgrade from the 7.29 driver, you cannot specify an SSID through Windows XP's driver Advanced tab.



Note These instructions assume you are using Windows XP's classic view rather than its category view.

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- Step 1** If you are installing the driver from Cisco.com, follow the steps below. If you are installing the driver from the Cisco Aironet Wireless LAN Client Adapters CD, go to [Step 2](#).
- Use the computer's web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - Locate the section for client adapter drivers and utilities.
 - Click the link for individual Windows files.
 - Select the latest driver file for Windows XP and your client adapter type.



Note The drivers for PC, LM, and PCI cards are labeled *PCM-LMC-PCI*; the drivers for mini PCI cards are labeled *mini PCI* or *MPI*.

- Read and accept the terms and conditions of the Software License Agreement.
 - Select the driver file to download it.
 - Save the file to a floppy disk or to your computer's hard drive.
 - Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - Go to [Step 2](#).
- Step 2** Follow the instructions in [Chapter 8](#) to insert the client adapter into your computer. The instructions vary by operating system and are different for PC cards and PCI cards.
- Step 3** Double-click **My Computer**, **Control Panel**, and **System**.
- Step 4** Click the **Hardware** tab and **Device Manager**.
- Step 5** Double-click **Network Adapters** and **Cisco Systems 3x0 Series Wireless LAN Adapter**.
- Step 6** Click the **Driver** tab.
- Step 7** Click **Update Driver**. The Welcome to the Hardware Update Wizard screen appears.
- Step 8** Select the **Install from a list or specific location (Advanced)** option and click **Next**.
- Step 9** When prompted to choose your search and installation options, select **Don't search. I will choose the driver to install** and click **Next**.
- Step 10** When prompted to select a network adapter to install, click **Have Disk**. The Install From Disk screen appears.
- Step 11** Insert the Cisco Aironet Wireless LAN Client Adapters CD or a floppy disk containing the latest driver into your computer, unless you are installing the driver from your computer's hard drive.
- Step 12** Click **Browse**; then find the location of the driver (on your CD, floppy disk, or computer's hard drive). If you are installing the driver from the CD and your CD-ROM drive is drive D, the path should be D:\WinXP.
- Step 13** Click **Open**. The installation wizard finds the driver file (netx500.inf).
- Step 14** Click **OK** on the Install From Disk screen.
- Step 15** The Select Network Adapter screen reappears. Select **Cisco Systems 3x0 Series Wireless LAN Adapter** and click **Next**.
- Step 16** The installation wizard copies the driver files from the CD, floppy disk, or computer's hard drive. When the installation is complete, click **Finish**.

- Step 17** Click **Close** on the Cisco Aironet 3x0 Series Wireless LAN Adapter Properties screen and exit the Control Panel.



Note You must exit the Control Panel before opening it again in [Step 18](#). Otherwise, the SSID property option will not be available when you get to [Step 22](#).

- Step 18** Double-click **Control Panel** and **Network Connections**.
- Step 19** Right-click **Wireless Network Connection**.
- Step 20** Click **Properties**, **Configure**, and the **Advanced** tab.
- Step 21** In the Advanced window, select **Client Name**. Type your computer's unique client name, which can be obtained from your system administrator, in the Value dialog box.
- Step 22** Select **SSID**. Type your RF network's (case-sensitive) SSID, which can be obtained from your system administrator, in the Value dialog box.
- Step 23** Click **OK**.
- Step 24** If your computer is not connected to a DHCP server and you plan to use TCP/IP, 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 25** The driver installation is complete. Now you must decide whether to configure your client adapter through Windows XP or ACU. To help you with your decision, [Table 3-2](#) compares the Windows XP and ACU client adapter features.

Table 3-2 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
Security		
Static WEP	Yes	Yes
LEAP authentication with dynamic WEP	No	Yes
Host-based EAP authentication with static or dynamic WEP	Yes	Yes

Table 3-2 Comparison of Windows XP and ACU Client Adapter Features (continued)

Feature	Windows XP	ACU
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

Step 26 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.
 - d. Deselect the **Use Windows to configure my wireless network settings** checkbox.
 - e. Follow the instructions in the “[Installing ACU](#)” section on page 3-16 to install 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 install ACU but do not create any profiles.

Installing ACU

After you have installed the appropriate driver for your computer’s operating system and your client adapter type, follow the steps below to install the Aironet Client Utility (ACU).



Note

Follow the procedure below if ACU has never been installed on your computer or if ACU version 4.13 or greater is currently installed. If a version of ACU prior to 4.13 is installed on your computer, follow the instructions in [Chapter 8](#) to uninstall it; then follow the steps below to install the latest version. Cisco does not recommend uninstalling ACU version 4.13 or greater before installing the latest version of ACU.



Note

ACU version 5.02 or greater must be used with PCM/LMC/PCI card driver version 8.2 or greater and PCM/LMC/PCI card firmware version 4.25.30 or greater (or mini PCI card driver version 3.4 or greater and mini PCI card firmware version 5.00.03 or greater).

- Step 1** Close any Windows programs that are running.
- Step 2** Perform one of the following:
- If you are installing ACU from the Cisco Aironet Wireless LAN Client Adapters CD that shipped with the client adapter, follow the steps below:
 - a. Insert the CD into your computer's CD-ROM drive.
 - b. Select **Start > Run**, enter the following path (where *D* is the letter of your CD-ROM drive): **D:\Aironet Client Utility\Setup.exe**, and click **OK**. The Aironet Client Utility Setup screen and the InstallShield Wizard appear.
 - c. Go to [Step 3](#).
 - If you are installing ACU from Cisco.com, follow the steps below:
 - a. Use the computer's web browser to access the following URL: <http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - b. Locate the section for client adapter drivers and utilities.
 - c. Click the link for individual Windows files.
 - d. Select the latest ACU file.
 - e. Read and accept the terms and conditions of the Software License Agreement.
 - f. Select the ACU file to download it.
 - g. Save the file to your computer's hard drive.
 - h. Locate the file using Windows Explorer, double-click it, and extract its files to a folder.
 - i. Select **Start > Run**, enter or browse to the path where you extracted the files (for example, C:\temp\setup.exe), and click **OK**. The Aironet Client Utility Setup screen and the InstallShield Wizard appear.
 - j. Go to [Step 3](#).
- Step 3** When the Welcome screen appears, click **Next**.
- Step 4** In the Select Options screen, select as many of the following options as desired and click **Next**:

Option	Description
LEAP	<p>Enables you to create a profile in ACU that uses LEAP authentication. If this option is not selected now and you later want to use LEAP, you must run this installation again, select Modify, and select this option.</p> <p>Default: Selected</p> <p>Note Refer to Chapter 5 for information on enabling LEAP.</p> <p>Note If you select LEAP on a Windows 95, 98, or 98 SE device, Microsoft hot fixes are installed during ACU installation to fix two problems related to the use of LEAP. Refer to Chapter 9 for more information on the hot fixes.</p> <p>Note If you select LEAP on a Windows XP device, you cannot use Windows XP's fast user switching feature.</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>Default:Selected</p> <p>Note This option is available only if the LEAP option is selected.</p>
Create ACU Icon on your 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>Default:Deselected</p>
Allow Non-Administrator Users to use ACU to modify profiles	<p>Enables users without administrative rights to modify profiles in ACU on computers running Windows NT, 2000, or XP.</p> <p>Default:Selected</p> <p>Note This option is not available for Windows 95, 98, and Me because these versions of Windows do not support different classes of users.</p>

Step 5 In the Choose Destination Location screen, perform one of the following:

- If you want the ACU program files to be installed in the default location (C:\Program Files, provided C:\Program Files is the default Windows program file folder), click **Next**.
- If you want to specify a different destination location for the ACU program files, click **Browse**, select a location, and click **Next**.

Step 6 In the Select Program Folder screen, specify a program folder name for ACU by selecting from the list of existing folders (the default name is Cisco Aironet) or entering a new folder name; then click **Next**.

A status screen displays the progress of the installation. Then one of two Setup Complete screens displays, depending on whether Windows needs to be restarted to complete the installation.

Step 7 Perform one of the following:

- If your computer does not need to be rebooted, select either of the following options and click **Finish**:

Option	Description
View the README.TXT file	Opens a read-me file containing information about ACU.
Launch the Aironet Client Utility	Opens ACU so you can configure your client adapter.

- If your computer needs to be rebooted, select **Yes, I want to restart my computer now** or **No, I will restart my computer later**, remove the CD (if installed), and click **Finish**.



Note If you are prompted to reboot your computer, Cisco recommends that you select the **Yes, I want to restart my computer now** option.

- Step 8** The driver and client utility installation is complete. The client adapter has been installed and configured for basic operation. 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 driver and ACU and minimally configured your client adapter, 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 driver installation, refer to [Chapter 9](#) for troubleshooting information.
