



Release Notes for Cisco Aironet Client Utilities, Version 5.01.001 for Windows

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Introduction

This document describes system requirements, installation/upgrade procedures, new and changed information, important notes, and caveats for the 5.01.001 release of the Cisco Aironet client utilities for Windows (Aironet Client Utility [ACU]).



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System Requirements

You will need the following in order to install and use ACU release 5.01.001:

- A Cisco Aironet 340, 350, or 4800 series PC card, LM card, PCI card, or mini PCI card
- A computer running Windows 95, 98, NT, 2000, Me, or XP
- A display with a minimum resolution of 800 x 600
- Driver version 8.01.06 or greater and firmware version 4.25.23 or greater (or mini PCI driver version 2.20 or greater and mini PCI firmware version 5.x or greater)

Installing or Upgrading to a New ACU Release

This section describes how to initially install or upgrade to the 5.01.001 ACU release. If ACU has never been installed on your computer or if ACU version 4.13 or greater is currently installed, follow the instructions in the “[Installation/Upgrade Procedure](#)” section below.



Note

If a version of ACU prior to 4.13 is installed on your computer, follow the instructions in the *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide for Windows* to uninstall it; then follow the steps in the “[Installation/Upgrade Procedure](#)” section below to install version 5.01.001.

Determining the Current ACU Version

To determine the version of ACU that your client adapter is currently using, open ACU; then click the **About** icon or select the **About Aironet Client Utility** option from the Help drop-down menu. The About Aironet Client Utility screen appears and displays the current version of ACU.

Installation/Upgrade Procedure

Follow the steps below to install/upgrade ACU on Windows 95, 98, NT, 2000, Me, or XP.

- Step 1 Close any Windows programs that are running.
- Step 2 Use the computer’s web browser to access the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
- Step 3 Under Cisco Aironet Drivers & Utilities, select **For Windows**.
- Step 4 Select the **ACUvxxxxxx.exe** file.
- Step 5 Read and accept the terms and conditions of the Software License Agreement.
- Step 6 Select the Cisco server from which to download the file.
- Step 7 Save the file to a floppy disk or to your computer’s hard drive and unzip it.
- Step 8 Select **Start > Run**, enter the path to the file (for example, C:\setup.exe), and click **OK**. The Aironet Client Utility Setup screen and the InstallShield Wizard appear.
- Step 9 When the Welcome screen appears, click **Next**.

Step 10 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 program again, select Modify, and select this option.</p> <p>Default: Selected</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. See the “Microsoft Hot Fixes” section on page 7 for more information.</p> <p>Note If you select LEAP on a Windows XP device, you cannot use the Windows XP 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 11 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 12 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 appears, depending on whether Windows needs to be restarted to complete the installation.

Step 13 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 floppy disk (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.

The client utility installation is complete.

Using ACU

For instructions on using ACU (to create profiles, configure the client adapter, use the diagnostic tools, etc.) for Cisco Aironet 340 and 350 Series Wireless LAN Adapters, access the *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide for Windows* at the following URL:
http://www.cisco.com/univercd/cc/td/doc/product/wireless/airo_350/350cards/windows/incfg/index.htm

New and Changed Information

More Options During ACU Installation

The ACU installation program has changed slightly from previous versions. The most significant changes are the new options available on the Select Options screen. Refer to the “[Installation/Upgrade Procedure](#)” section on page 2 for instructions on installing/upgrading ACU.

Integration of Client Utilities

Previous versions of the client utilities for Windows included three utilities: Aironet Client Utility (ACU), Client Encryption Manager (CEM), and Link Status Meter (LSM). In release 5.01.001, all three utilities are integrated into ACU.

Navigation within ACU

In previous versions of ACU, you could access ACU features only by selecting options from the Commands drop-down menu. In ACU release 5.01.001, you can access ACU features either by selecting options from the Commands drop-down menu or by clicking the icons on the Aironet Client Utility screen.

Also in previous ACU versions, you used the **Edit Properties** option from the Commands drop-down menu to set configuration parameters. In ACU release 5.01.001, you must select the **Profile Manager** option from the Commands drop-down menu or click the **Profile Manager** icon in order to configure parameters for specific profiles.

Profile Manager Feature

ACU's profile manager feature allows you to create and manage up to 16 *profiles* (or saved configurations) for your client adapter. These profiles enable you to use your client adapter in different locations, each of which requires different configuration settings. For example, you may want to set up profiles for using your client adapter at the office, at home, and in public areas such as airports. Once the profiles are created, you can easily switch between them without having to reconfigure your client adapter each time you enter a new location.

Profiles are stored in the part of the registry reserved for the client adapter driver and are therefore tied to radio type. Consequently, if you set up profiles for a 340 series PC card and later upgrade to a 350 series PC card, all of the profiles will be lost. Similarly, all profiles are lost if you uninstall the client adapter's driver. To prevent your profiles from being lost, Cisco recommends that you back up your profiles using the profile manager's import/export capability.

Refer to the *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide for Windows* for information on creating, selecting, editing, renaming, deleting, importing, and exporting profiles.

Auto Profile Selection Feature

When you create profiles using profile manager, you can choose to include them in auto profile selection by selecting the **Include Profile in Auto Profile Selection** checkbox. Then when you select the **Use Auto Profile Selection** option, the client adapter's driver automatically selects a profile from the list of profiles that were set up to be included in auto profile selection.

If the client adapter loses association for more than 10 seconds (or for more than the time specified by the LEAP authentication timeout value on the LEAP Settings screen if LEAP is enabled), the driver switches automatically to another profile that is included in auto profile selection. The adapter does not switch profiles as long as it remains associated or reassociates within 10 seconds (or within the time specified by the LEAP authentication timeout value). To force the client adapter to associate to a different access point, you must disable auto profile selection and select a new profile.

Restrictions

The following restrictions apply to the auto profile selection feature:

- The Use Auto Profile Selection option is available only if two or more profiles are included in auto profile selection.

- If a profile is using LEAP, it can be included in auto profile selection only if it has a saved username and password. The Include Profile In Auto Profile Selection checkbox on the Profile Manager screen is grayed out and cannot be selected for profiles that are using LEAP without a saved username and password.
- Login scripts are not reliable if you use auto profile selection with LEAP. If you LEAP authenticate and achieve full network connectivity before or at the same time as you log into the computer, the login scripts run. However, if you LEAP authenticate and achieve full network connectivity after you log into the computer, the login scripts do not run.

Additional LEAP Username and Password Configuration Options

ACU's new LEAP Settings screen offers several options for specifying a LEAP username and password. For example, you can specify whether the LEAP username and password are temporary or saved. If you select temporary, you can then specify if they should be the same as or separate from your standard Windows login. If they are separate, you can opt to be automatically prompted to enter the credentials or to manually invoke the LEAP authentication process when desired.

Reboot No Longer Required after LEAP Activation/Deactivation

A reboot is not required when activating/deactivating LEAP, when switching between LEAP-enabled and non-LEAP-enabled profiles, or when inserting a client adapter after the Windows login.

Message Integrity Check (MIC) Support

ACU release 5.01.001 displays status and statistics for MIC, provided it is supported by the client adapter's driver and firmware and enabled on the associated access point. MIC is a wireless LAN security feature designed to protect packets sent to and received from the access point.

MIC prevents bit-flip attacks on encrypted packets. During a bit-flip attack, an intruder intercepts an encrypted message, alters it slightly, and retransmits it, and the receiver accepts the retransmitted message as legitimate. MIC adds a few bytes to each packet to make the packets tamper-proof. Client adapters using NDIS driver version 8.01.06 or greater and firmware version 4.25.23 or greater support MIC; however, MIC can be used only if it is also enabled on the access point.



Note Access point firmware version 11.10T or greater is required to enable MIC on the access point. If the access point is using MIC, your client adapter's driver and firmware must support MIC; otherwise, the client will not be able to associate.

Restart Card Button Added to Site Survey Screens

A Restart Card button has been added to ACU's site survey tool in the 5.01.001 release. This button enables you to reinitialize (or restart) the client adapter while performing a site survey in an attempt to force it to disassociate from the access point to which it is currently associated and reassociate to another access point.



Note Restarting the client adapter may cause you to lose your wireless network connection.

Microsoft Hot Fixes

When LEAP is selected during ACU installation on a Windows 95, 98, or 98 SE device, Microsoft hot fixes are also installed to fix two problems related to the use of LEAP. You can obtain descriptions of these hot fixes and the problems they resolve at the following Microsoft URLs:

- <http://support.microsoft.com/support/kb/articles/Q247/8/05.asp> (for Windows 95, 98, and 98 SE)
- <http://support.microsoft.com/support/kb/articles/Q165/4/02.asp> (for Windows 95 only)



Note

Only the English version of the hot fixes are installed. Foreign language versions of these operating systems require hot fixes specific to those languages. Contact Microsoft Product Support Services to obtain the hot fixes for languages other than English. Without the hot fixes installed, you may be prompted to enter your credentials at the Windows login prompt twice. To work around this problem, enter your login credentials again.

Documentation

The documentation for the 340 and 350 Series Cisco Aironet Wireless LAN Adapters is changing with this release. Prior versions of client adapter software for Windows are documented in the *Cisco Aironet Wireless LAN Adapters Hardware Installation Guide* and the *Cisco Aironet Wireless LAN Adapters Software Configuration Guide*, both of which also contain information for Windows CE, Linux, and Macintosh. Now one Windows-specific document is available. This document is entitled *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide for Windows*.

Important Notes

Using "Profiles" from Previous Versions of ACU

If you previously installed ACU version 4.xx on your computer, a default Home profile was created the first time it was run. If you modified this profile, your changes were saved to the registry. Therefore, if you upgrade to driver version 8.01.06, the driver will load your existing Home profile and be able to use it. If you also upgrade to ACU version 5.01.001, the first time you modify or add a profile, the existing 4.xx profiles (Enterprise and Home) are converted to the new 5.01.001 profile structure automatically by ACU and the driver.



Note

If you uninstall your current driver and then install the 8.01.06 driver, all of your old profiles (Enterprise and Home) are lost. Therefore, you should follow the instructions in the *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide* to upgrade the driver.

Caveats

This section describes resolved and open caveats for Windows ACU release 5.01.001.

Resolved Caveats

The following caveats are resolved by Windows ACU release 5.01.001.

Post-Login Scripts Fail after LEAP Login (Windows 95)

When a client logs in with LEAP, the post-login scripts fail to execute (CSCdu17086). This caveat is resolved in ACU release 5.01.001, and you do not need to copy the ipconfig.exe file that ships with Windows 98 or Me to your Windows 95 computer.

ACU Displays MAC Address Rather Than IP Address of the Access Point

When LEAP is enabled, the status bar at the bottom of the ACU screen usually displays the MAC address, rather than the IP address, of the access point to which the client is associated (CSCdu53528). This caveat is resolved in firmware release 4.25.23.

IP Address Is Lost When Computer Resumes from Suspend Mode

When a computer running Windows 2000 resumes from suspend mode while using LEAP, the IP address is lost (CSCdv16435). This caveat is resolved in ACU release 5.01.001.

340 Series PCI Card Does Not Save ACU Settings to the Registry

When a 340 series PCI card is installed in a computer running Windows 95, ACU settings are not stored in the registry (CSCdv51473). This caveat is resolved in ACU release 5.01.001.

Client in World Mode Has 100-mW Power When Associated to a 30- or 50-mW Access Point

A client in world mode has 100-mW power when associated to an access point that is set for 30 or 50 mW (CSCdu80530). The client should adopt the transmit power of the access point. This caveat is resolved in ACU release 5.01.001.

World Mode-Enabled Client Must Reboot to Roam

If you enable world mode on the client adapter, you must reboot your computer in order for the client to roam between access points (CSCdu80523). This caveat is resolved in ACU release 5.01.001.

Novell Client Does Not Appear with LEAP

If you install Novell Client and then ACU with LEAP, you are prompted for the LEAP username and password but not for the Novell credentials. The system does not even attempt to log onto the Novell server (CSCdv56405). This caveat is resolved in ACU release 5.01.001.

Open Caveats

The following are known problems for Windows ACU release 5.01.001.

Disallowing Non-Administrative Users to Modify Profiles Does Not Work in ACU Installation Program

If you deselect the **Allow Non-Administrator Users to use ACU to modify profiles** checkbox during ACU installation, non-administrative users are nevertheless able to modify profiles (CSCdw13089). However, this same checkbox on the Aironet Client Preferences screen does allow you to deny modification privileges to non-administrative users.

ACU Does Not Recognize Removal of One Radio Card Type and Insertion of Another

If you start ACU while a client adapter of one radio type is inserted (such as a 340 series PC card) and then eject the card and replace it with a card of another radio type (such as a 350 series PC card), ACU indicates that “Your Wireless LAN Adapter is not inserted” until ACU is shut down and restarted (CSCdv67623).

LEAP Authentication Continues after LEAP Support Is Disabled

If a profile that uses LEAP with a saved username and password is selected and then LEAP is disabled through the ACU installation program (by selecting **Modify** and deselecting the **LEAP** checkbox), the client adapter will continue to LEAP authenticate after the system reboots (CSCdv64355). In fact, the client will authenticate before login and remain associated after logoff.

ACU Icons Do Not Appear on Windows 95

On Windows 95, icons do not appear on the Aironet Client Utility screen (CSCdv85564). You can either select ACU options through the Commands, Options, or Help drop-down menus or upgrade your version of Internet Explorer to enable the icons to appear.

Profile Manager and Status Screens Do Not Fit on 640 x 480 Displays

Some of the buttons on ACU’s Profile Manager and Status screens are not visible when viewed on displays with a 640 x 480 resolution. Cisco recommends using a display with a minimum resolution of 800 x 600.

Getting Bug Information on Cisco.com

If you are a Cisco registered user, you can use the Cisco TAC Software Bug Toolkit, which consists of three tools (Bug Navigator, Bug Watcher, and Search by Bug ID Number) that help you to identify existing bugs (or caveats) in Cisco software products.

Access the TAC Software Bug Toolkit today at:

http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl

Troubleshooting

For the most up-to-date, detailed troubleshooting information, refer to the Cisco TAC website at <http://www.cisco.com/tac>. Select **Wireless Technologies** under “Top Issues.”

Related Documentation

For more information about 340 and 350 series client adapters, refer to the *Cisco Aironet Wireless LAN Adapters Installation and Configuration Guide for Windows*.

Obtaining Documentation

The following sections explain how to obtain documentation from Cisco Systems.

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following URL:

<http://www.cisco.com>

Translated documentation is available at the following URL:

http://www.cisco.com/public/countries_languages.shtml

Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package shipped separately from the Cisco Aironet Series Wireless LAN Adapters CD that shipped with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco product documentation from the Networking Products MarketPlace:
http://www.cisco.com/cgi-bin/order/order_root.pl
- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:
<http://www.cisco.com/go/subscription>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

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To submit your comments by mail, use the response card behind the front cover of your document, or write to the following address:

Cisco Systems
Attn: Document Resource Connection
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools by using the Cisco Technical Assistance Center (TAC) Web Site. Cisco.com registered users have complete access to the technical support resources on the Cisco TAC Web Site.

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<http://www.cisco.com>

Technical Assistance Center

The Cisco TAC is available to all customers who need technical assistance with a Cisco product, technology, or solution. Two types of support are available through the Cisco TAC: the Cisco TAC Web Site and the Cisco TAC Escalation Center.

Inquiries to Cisco TAC are categorized according to the urgency of the issue:

- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration.
- Priority level 3 (P3)—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- Priority level 2 (P2)—Your production network is severely degraded, affecting significant aspects of business operations. No workaround is available.
- Priority level 1 (P1)—Your production network is down, and a critical impact to business operations will occur if service is not restored quickly. No workaround is available.

Which Cisco TAC resource you choose is based on the priority of the problem and the conditions of service contracts, when applicable.

Cisco TAC Web Site

The Cisco TAC Web Site allows you to resolve P3 and P4 issues yourself, saving both cost and time. The site provides around-the-clock access to online tools, knowledge bases, and software. To access the Cisco TAC Web Site, go to the following URL:

<http://www.cisco.com/tac>

All customers, partners, and resellers who have a valid Cisco services contract have complete access to the technical support resources on the Cisco TAC Web Site. The Cisco TAC Web Site requires a Cisco.com login ID and password. If you have a valid service contract but do not have a login ID or password, go to the following URL to register:

<http://www.cisco.com/register/>

If you cannot resolve your technical issues by using the Cisco TAC Web Site, and you are a Cisco.com registered user, you can open a case online by using the TAC Case Open tool at the following URL:

<http://www.cisco.com/tac/caseopen>

If you have Internet access, it is recommended that you open P3 and P4 cases through the Cisco TAC Web Site.

Cisco TAC Escalation Center

The Cisco TAC Escalation Center addresses issues that are classified as priority level 1 or priority level 2; these classifications are assigned when severe network degradation significantly impacts business operations. When you contact the TAC Escalation Center with a P1 or P2 problem, a Cisco TAC engineer will automatically open a case.

To obtain a directory of toll-free Cisco TAC telephone numbers for your country, go to the following URL:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

Before calling, please check with your network operations center to determine the level of Cisco support services to which your company is entitled; for example, SMARTnet, SMARTnet Onsite, or Network Supported Accounts (NSA). In addition, please have available your service agreement number and your product serial number.

This document is to be used in conjunction with the documents listed in the [“Related Documentation”](#) section.

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