



# Release Notes for Cisco Aironet 350 and CB20A Client Adapter Install Wizard 1.8 for Windows

---

## Contents

This document contains the following sections:

- [Introduction, page 2](#)
- [Purpose, page 2](#)
- [System Requirements, page 2](#)
- [Important Notes, page 4](#)
- [Installing or Upgrading Client Adapter Software, page 6](#)
- [Finding Version Numbers, page 17](#)
- [Caveats, page 18](#)
- [Troubleshooting, page 20](#)
- [Related Documentation, page 20](#)
- [Obtaining Documentation and Submitting a Service Request, page 20](#)



---

**Americas Headquarters:**  
**Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA**

© 2008 Cisco Systems, Inc. All rights reserved

# Introduction

This document describes system requirements, important notes, installation and upgrade procedures, and caveats for client adapter Install Wizard version 1.8 and the following software included in the Install Wizard file:

- Firmware version 5.60.22
- PC, LM, and PCI card driver version 8.9
- Mini PCI and PC-Cardbus card driver version 3.12
- Aironet Client Utility (ACU) version 6.7
- Aironet Client Monitor (ACM) version 2.4
- LEAP security module version 6.6
- EAP-FAST security module version 1.0
- PEAP security module version 1.3
- EAP-SIM security module version 1.0



---

**Note** Refer to the [“New EAP-SIM Supplicant Available”](#) section on page 5 for information about a new EAP-SIM supplicant.

---

## Purpose

Software version 1.8 is the final maintenance release for the Cisco Aironet 350 and CB20A Client Adapter Install Wizard for Windows. See the [“Resolved Caveats”](#) section on page 18 for a list of caveats that have been resolved in version 1.8.

## System Requirements

You need the following in order to install Install Wizard 1.8 and use its software components:

- One of the following Cisco Aironet client adapters:
  - 350 series PC, LM, PCI, or mini PCI card
  - CB20A PC-Cardbus card



---

**Note** Install Wizard 1.8 and its software components are not supported for use with Cisco Aironet 340 series client adapters.

---

- A computer running the Windows 2000 or XP operating system



---

**Note** Install Wizard 1.8 and its software components are not supported for use with Windows 95, 98, 98 SE, NT, Vista, and Me.

---




---

**Note** All drivers and supporting software (Card and Socket Services) for the PC card slot or Cardbus slot must be loaded and configured.

---

- A display with a minimum resolution of 800 x 600 pixels
- 35 MB of free hard disk space (minimum)




---

**Note** The Install Wizard terminates if you attempt to install it on a computer that has less than 35 MB of hard disk space.

---

- One of the following host supplicants if your wireless network uses host-based EAP authentication with WPA:
  - Funk Odyssey Client supplicant version 2.2 (for Windows 2000)
  - Windows XP Service Pack 1 and Microsoft supplicant Q815485 (for Windows XP)




---

**Note** Meetinghouse AEGIS Client supplicant version 2.1 or later is also supported for use with Windows 2000 and XP; however, it was not tested with this client adapter software release.

---

- The Microsoft 802.1X supplicant, if your wireless network uses EAP-TLS, PEAP, or EAP-SIM authentication
- If your wireless network uses PEAP authentication with a One-Time Password (OTP) user database:
  - SofToken version 1.3, 2.0, or later from Secure Computing; SecurID version 2.5 from RSA; or hardware token from OTP vendors
  - Your software token PIN or hardware token password
- If your wireless network uses EAP-SIM authentication:
  - PCSC-compliant smartcard reader installed in your computer's Type II or Type III PC card slot
  - Gemplus SIM+ smartcard inserted in the reader
  - The SIM card's PIN




---

**Note** The EAP-SIM supplicant included in the Install Wizard file supports only Gemplus SIM+ cards; however, an updated supplicant is available that supports standard GSM-SIM cards as well as more recent versions of the EAP-SIM protocol. The new supplicant is available for download from Cisco.com at the following URL:

<http://www.cisco.com/cgi-bin/tablebuild.pl/access-registrar-encrypted>

---

- The following information from your system administrator:
  - The logical name for your workstation (also referred to as *client name*)
  - The protocols necessary to bind to the client adapter
  - The case-sensitive service set identifier (SSID) for your RF network
  - If your computer is not connected to a DHCP server, the IP address, subnet mask, and default gateway address of your computer

- The wired equivalent privacy (WEP) keys of the access points with which your client adapter will communicate, if your wireless network uses static WEP for security
- The username and password for your network account
- Protected access credentials (PAC) file if your wireless network uses EAP-FAST authentication with manual PAC provisioning
- Access points to which your client adapter may attempt to authenticate must use the following firmware versions or later: 12.00T (340, 350, and 1200 series access points) or Cisco IOS Release 12.2(4)JA (1100 series access points).




---

**Note** To use WPA or fast roaming, access points must use Cisco IOS Release 12.2(11)JA or later. To use radio management (RM), access points must use Cisco IOS Release 12.2(13)JA or later. To use QoS and WMM, access points must use Cisco IOS Release 12.3(2)JA or later.

---

- All necessary infrastructure devices such as access points, servers, gateways, and user databases must be properly configured for any authentication type you plan to enable on the client.

## Important Notes

### PEAP-GTC Authentication Does Not Complete with the 350 Driver

When using the 350 driver for authentication with a unified PEAP-GTC SSID, the user is prompted to click on toolbar balloon message to authenticate to the network. When the user clicks on the **Click here to select a certificate or other credentials for connection to the network <SSID name>** message, the balloon goes away, but no prompt is displayed.

This issue is a C/A root certificate issue. The server certificate can be a size up to 2048 and use either an RSA or a DSA signature algorithm. The C/A root certificate must be 1024 or smaller and must use an RSA signature algorithm. Any certificate that is of a bigger size or that uses a different signature algorithm causes the 350 to fail.

### Customized Installation Images (Notice to IT Professionals)



**Caution**

---

Use caution when bundling the client adapter software into a customized installation image. If the registry settings are modified, the software may not install and uninstall properly.

---

## Firmware Is Upgraded Automatically

The Install Wizard automatically upgrades the client adapter firmware to the version included in the Install Wizard file.

**Note**

Applications such as AirMagnet and Wild Packets may fail after the firmware is upgraded. To resolve this problem, use ACU to downgrade the firmware to the previous version. Older versions of client adapter firmware are available from the Software Center on Cisco.com.

## Reboot Required When Uninstalling ACU

**Caution**

When you uninstall ACU, make sure you reboot your computer when prompted. Otherwise, the system may be rendered unable to boot, displaying the message “The Logon User Interface DLL cswGina.dll failed to load. Contact your system administrator to replace the DLL or restore the original DLL.”

## Uninstalling Software Components

All profiles are deleted if you use the Uninstall All Components option on the Cisco Aironet Wireless LAN Client Adapter Installation Wizard screen to uninstall the client adapter software. Cisco recommends that you use the Profile Manager’s export feature to save your profiles before uninstalling the software.

## Inserting and Removing Client Adapters

The following rules apply when inserting and removing client adapters:

- If you start ACU while a client adapter of one radio type is inserted (such as a 350 series PC card) and then eject the card and replace it with a card of another radio type (such as a CB20A PC-Cardbus card), ACU displays “Your Wireless LAN Adapter is not inserted” until ACU is shut down and restarted.
- The profiles for PC-Cardbus cards are tied to the slot in which the card is inserted. Therefore, you must always insert your PC-Cardbus card into the same slot, create profiles for both slots, or export the profiles for one slot and import them for the other slot.

## New EAP-SIM Supplicant Available

A new EAP-SIM supplicant is available for download from Cisco.com. This new supplicant is an upgrade to the one included in the Install Wizard file. It provides new features, supports more recent versions of the EAP-SIM draft standard, and can be used with standard GSM-SIM cards as well as Gemplus SIM+ smartcards.

The new supplicant overwrites any previous EAP-SIM supplicant settings. If you plan to install the Cisco Aironet Install Wizard file after the new supplicant is installed, either perform an express installation or make sure that the EAP-SIM option is not selected on the Custom Installation screen. Otherwise, the EAP-SIM supplicant included in the Install Wizard file overwrites the new supplicant's settings.

You can access the latest EAP-SIM supplicant at the following URL:

<http://www.cisco.com/cgi-bin/tablebuild.pl/access-registrar-encrypted>

## Windows Wireless Network Connection Icon Shows Unavailable Connection (Windows XP Only)

If your computer is running Windows XP and you configured your client adapter using ACU, the Windows Wireless Network Connection icon in the Windows system tray may be marked with a red *X* and show an unavailable connection even though a wireless connection exists. This condition is caused by a conflict between ACU and Windows XP's wireless network settings. Simply ignore the Windows icon and use the ACM icon to check the status of your client adapter's wireless connection.

## Supporting Documentation

The *Cisco Aironet 350 and CB20A Wireless LAN Client Adapters Installation and Configuration Guide for Windows* (part number OL-1394-10) provides detailed installation, configuration, and troubleshooting information for Install Wizard 1.8 and its software components:

[http://www.cisco.com/en/US/products/hw/wireless/ps4555/products\\_installation\\_and\\_configuration\\_guide\\_book09186a00804851b8.html](http://www.cisco.com/en/US/products/hw/wireless/ps4555/products_installation_and_configuration_guide_book09186a00804851b8.html)

## Installing or Upgrading Client Adapter Software

Follow these steps to use Install Wizard 1.8 to install or upgrade client adapter software on a computer running Windows 2000 or XP.

**Note**

Install Wizard 1.8 and its software components are not supported for use with Windows 95, 98, 98 SE, NT, Vista, and Me.

**Note**

You do not need to uninstall any previous versions of Cisco Aironet client adapter software (firmware, drivers, or utilities) or previous versions of the Install Wizard prior to installing Install Wizard 1.8.

- Step 1** Use your computer's web browser to access the following URL:  
<http://tools.cisco.com/support/downloads/pub/Redirect.x?mdfid=278875243>
- Step 2** Click **Wireless LAN Access**.
- Step 3** Click **Cisco Wireless LAN Client Adapters**.
- Step 4** Click **Cisco Aironet Wireless LAN Client Adapters**.

- Step 5** Click **Cisco Aironet 350 Mini-PCI Wireless LAN Client Adapter**, **Cisco Aironet 350 Wireless LAN Client Adapter**, or **Cisco Aironet 5 GHz 54 Mbps Wireless LAN Client Adapter (CB20A)**.
- Step 6** Click **Aironet Client Installation Wizard (Firmware, Driver, Utility)**.
- Step 7** Click **Windows 2000** or **Windows XP**.
- Step 8** Click **1.8**.
- Step 9** Click the executable file (\*.exe) that appears on your screen.
- Step 10** Click **Download**.
- Step 11** Read the software download rules and click **Agree**.
- Step 12** Save the file to your computer's hard drive.
- Step 13** Insert the client adapter into your computer if it is not already inserted.



---

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

---

- Step 14** If a driver is not currently installed for your client adapter, the Found New Hardware Wizard screen appears. Click **Cancel**.
- Step 15** Find the Install Wizard file using Windows Explorer, double-click it, and extract its files to a folder.



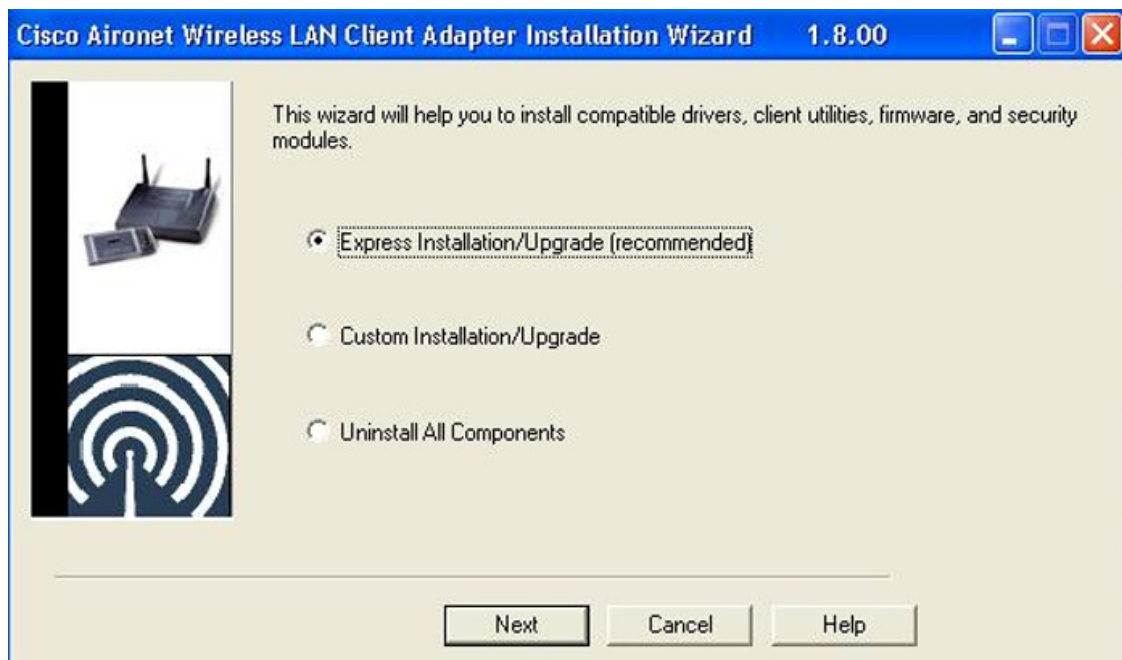
---

**Note** To extract the files, click **Browse** on the WinZip Self-Extractor screen, choose 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 16** Close Windows Explorer. The Cisco Aironet Wireless LAN Client Adapter Installation Wizard screen appears (see [Figure 1](#)).

**Figure 1** Cisco Aironet Wireless LAN Client Adapter Installation Wizard Screen



**Step 17** Choose 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 1](#).
- **Custom Installation/Upgrade**—Enables you to specify which software components are installed and to change the default values of certain parameters.

**Step 18** If a message appears indicating that you may be required to restart your computer at the end of the installation process, click **OK**.

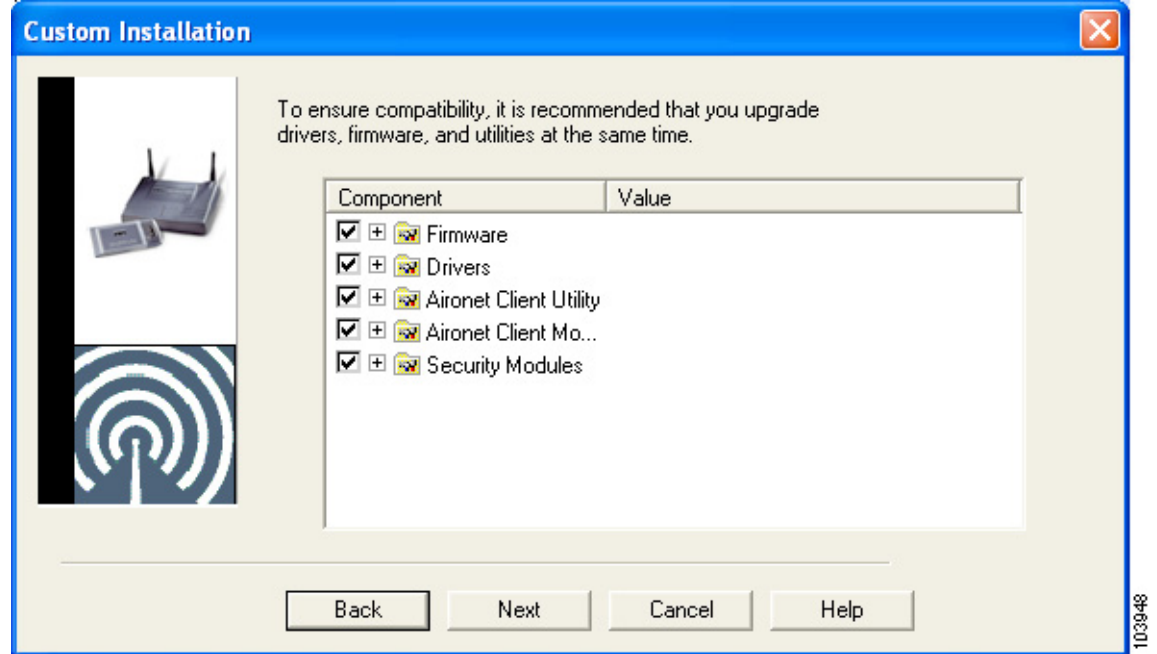


**Note** If you click **Cancel**, the installation process terminates.

**Step 19** If you chose an express installation, go to [Step 21](#). If you chose a custom installation, the Custom Installation screen appears (see [Figure 2](#)).



**Figure 2** Custom Installation Screen



**Step 20** Follow these steps to make selections on this screen.

- a. Make sure that a check mark appears beside every software component that you want to install. For every component that is checked, the Install Wizard installs its version of that component. Every component that is not checked remains 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 1](#) describes each component and its parameters and lists any default value.

**Table 1 Software Components and Their Parameters**

Component or Parameter	Description						
Firmware	<p>Installs the firmware version included in the Install Wizard file.</p> <p><b>Default:</b> Checked</p>						
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. It controls whether the driver (whenever it loads) installs the firmware with which it is bundled.</p> <p><b>Note</b> The driver loads each time you insert a client adapter or reboot your computer.</p> <p><b>Options:</b> Yes or No</p> <p><b>Default:</b> 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><b>Note</b> The Disable Firmware Checking parameter is functionally equivalent to the <b>Automatically Load New Firmware When NDIS Driver Is Updated</b> parameter on the ACU Preferences screen. The parameter that is set last is the one that governs how the driver behaves.</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	<p>Installs the driver version included in the Install Wizard file.</p> <p><b>Default:</b> Checked</p>						
Set Quiet Mode?	<p>Specifies whether the client becomes quiet (to passively scan or listen) when its associated access point is turned off. In quiet mode, the client generates radio frequency energy only in direct response to an access point transmission. When the access point is turned back on, it starts sending beacons, which the client hears and can now respond to.</p> <p>This parameter applies to individual cards rather than profiles. It can be set differently for different cards and remains in effect across ACU sessions and computer reboots.</p> <p><b>Options:</b> Yes or No</p> <p><b>Default:</b> No</p> <p><b>Note</b> You can also change the quiet mode setting in ACU by choosing the Turn Quiet Mode On/Off option from the Commands drop-down menu.</p>						

**Table 1**      **Software Components and Their Parameters (continued)**

<b>Component or Parameter</b>	<b>Description</b>
Aironet Client Utility	Installs the ACU version included in the Install Wizard file. <b>Default:</b> Checked
Installation Path	Determines the path where the ACU software will be installed. You can change the default by entering a new path. <b>Default:</b> 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. <b>Default:</b> Cisco Systems
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. <b>Options:</b> Yes or No <b>Default:</b> 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. <b>Options:</b> Yes or No <b>Default:</b> Yes
Aironet Client Monitor	Installs the ACM version included in the Install Wizard file. <b>Default:</b> Checked
Installation Path	Determines the path where the ACM software will be installed. You can change the default by entering a new path. <b>Default:</b> 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. <b>Default:</b> Cisco Systems
Auto Start	Determines whether ACM starts automatically every time Windows boots. <b>Options:</b> Yes or No <b>Default:</b> Yes <b>Note</b> If you choose No, you can later activate ACM by using Windows Explorer to find the path where the ACM software is installed and double-clicking <b>ACUMon.exe</b> .
Start After Install	Determines whether ACM starts automatically after ACM is installed. <b>Options:</b> Yes or No <b>Default:</b> Yes <b>Note</b> If you choose No, you can later activate ACM by using Windows Explorer to find the path where the ACM software is installed and double-clicking <b>ACUMon.exe</b> .

**Table 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><b>Components:</b> See the table below</p> <p><b>Options per component:</b> Enable or Disable</p> <p><b>Default per component:</b> Enable</p>																								
	<table border="1"> <thead> <tr> <th data-bbox="711 583 1003 619">Component</th> <th data-bbox="1003 583 1492 619">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="711 625 1003 699">About Box (Help)</td> <td data-bbox="1003 625 1492 699">Displays the ACM version number and enables you to access the online help.</td> </tr> <tr> <td data-bbox="711 699 1003 741">Exit Program</td> <td data-bbox="1003 699 1492 741">Closes ACM for all client adapters.</td> </tr> <tr> <td data-bbox="711 741 1003 814">Launch Aironet Client Utility</td> <td data-bbox="1003 741 1492 814">Activates ACU, if it is installed.</td> </tr> <tr> <td data-bbox="711 814 1003 951">Troubleshooting</td> <td data-bbox="1003 814 1492 951">Activates the troubleshooting utility, which enables you to identify and resolve configuration and association problems with your client adapter.</td> </tr> <tr> <td data-bbox="711 951 1003 1066">Preferences</td> <td data-bbox="1003 951 1492 1066">Enables you to determine when ACM runs and to select the options that appear on the ACM pop-up menu.</td> </tr> <tr> <td data-bbox="711 1066 1003 1108">Turn Radio On/Off</td> <td data-bbox="1003 1066 1492 1108">Turns the client adapter's radio on or off.</td> </tr> <tr> <td data-bbox="711 1108 1003 1213">Reauthenticate</td> <td data-bbox="1003 1108 1492 1213">Forces your client adapter to try to reauthenticate using the username and password of the current profile.</td> </tr> <tr> <td data-bbox="711 1213 1003 1287">Select Profile</td> <td data-bbox="1003 1213 1492 1287">Enables you to select the active profile for your client adapter.</td> </tr> <tr> <td data-bbox="711 1287 1003 1434">Auto Profile Selection</td> <td data-bbox="1003 1287 1492 1434">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 data-bbox="711 1434 1003 1507">Other Configuration Application</td> <td data-bbox="1003 1434 1492 1507">Enables an application other than ACU to configure the client adapter.</td> </tr> <tr> <td data-bbox="711 1507 1003 1581">Show Connection Status</td> <td data-bbox="1003 1507 1492 1581">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.
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.																								

**Table 1**      **Software Components and Their Parameters (continued)**

<b>Component or Parameter</b>	<b>Description</b>
Menu Options (Defaults)	<p>Determines which options are displayed on the ACM pop-up menu.</p> <p><b>Menu options:</b> About Box (Help), Exit Program, Launch Aironet Client Utility, Troubleshooting, Turn Radio On/Off, Reauthenticate, Select Profile, Show Connection Status</p> <p><b>Options per menu option:</b> Show or Hide</p> <p><b>Default per menu option:</b> Show</p>
<b>Security Modules</b>	
LEAP	<p>Installs the LEAP supplicant 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 choose this option.</p> <p><b>Default:</b> Checked</p> <p><b>Note</b> If you choose 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 selected, the saved username and password are used to start the LEAP authentication process, and you are not prompted to enter them.</p> <p><b>Options:</b> Yes or No</p> <p><b>Default:</b> Yes</p>
EAP-SIM	<p>Installs the EAP-SIM supplicant 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 choose this option.</p> <p><b>Default:</b> Unchecked</p> <p><b>Note</b> To enable EAP-SIM authentication, your computer must run Windows 2000 with the Microsoft 802.1X supplicant installed or Windows XP.</p> <p><b>Note</b> If you installed the new EAP-SIM supplicant from Cisco.com (see the <a href="#">“New EAP-SIM Supplicant Available”</a> section on page 5), 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 1 Software Components and Their Parameters (continued)

Component or Parameter	Description
PEAP	<p data-bbox="716 317 1487 474">Installs the PEAP supplicant 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 choose this option.</p> <p data-bbox="716 489 951 516"><b>Default:</b> Unchecked</p> <p data-bbox="716 533 1487 625"><b>Note</b> 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="716 655 1487 940"><b>Note</b> 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 Windows XP Service Pack 1 or the Microsoft 802.1X supplicant for Windows 2000. Otherwise, Cisco's PEAP supplicant is overwritten by Microsoft's PEAP supplicant.</p>
EAP-FAST	<p data-bbox="716 957 1487 1140">Installs the EAP-FAST supplicant included in the Install Wizard file. Installing the EAP-FAST supplicant enables you to create a profile in ACU that uses EAP-FAST authentication. If this option is not selected now and you later want to create a profile that uses EAP-FAST, you must run this installation program again and choose this option.</p> <p data-bbox="716 1157 924 1184"><b>Default:</b> Checked</p> <p data-bbox="716 1201 1487 1262"><b>Note</b> The EAP-FAST supplicant is installed and can be enabled only on computers running Windows 2000 or XP.</p> <p data-bbox="716 1291 1487 1352"><b>Note</b> If you choose EAP-FAST on a Windows XP device, Windows XP's fast user switching feature is disabled.</p>
Allow Saved EAP-FAST User Name and Password	<p data-bbox="716 1371 1487 1528">Enables you to create a profile in ACU that uses a saved (rather than temporary) username and password for EAP-FAST authentication. When such a profile is used, the saved username and password are used to start the EAP-FAST authentication process, and you are not prompted to enter them.</p> <p data-bbox="716 1545 938 1572"><b>Options:</b> Yes or No</p> <p data-bbox="716 1589 867 1617"><b>Default:</b> Yes</p> <p data-bbox="716 1633 1487 1694"><b>Note</b> This parameter is applicable only to client adapters that are installed in computers running Windows 2000 or XP.</p>

**Table 1**      **Software Components and Their Parameters (continued)**

Component or Parameter	Description
Allow Auto-Provisioning?	<p>Enables a protected access credentials (PAC) file to be obtained automatically as needed (for instance, when a PAC expires, when the client adapter accesses a different server, when the EAP-FAST username cannot be matched to a previously provisioned PAC, etc.).</p> <p><b>Options:</b> Yes or No</p> <p><b>Default:</b> Yes</p> <p><b>Note</b> This parameter is applicable only to client adapters that are installed in computers running Windows 2000 or XP.</p>

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

**Step 21** The installation process begins, and you are notified as each component is installed. 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 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.

**Step 22** 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 23** If your network setup does not include a DHCP server and you plan to use TCP/IP, follow these steps for your operating system. If you have more than one client adapter installed, repeat this step for each adapter.

- **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**. Click **Internet Protocol (TCP/IP)** and click **Properties**. Choose **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 24** If you are prompted to restart your computer, click **Yes**. The installation is complete.

---



# Finding Version Numbers

Follow the instructions in this section to find the version numbers of your client adapter's software components.

## Finding the Install Wizard Version

Follow these steps to find the version of the Install Wizard that is currently installed for your client adapter.

- 
- Step 1** Open Windows Explorer.
  - Step 2** Find the Install Wizard files.
  - Step 3** Right-click the **IWSetup.exe** or **Setup.exe** file.
  - Step 4** Click **Properties**.
  - Step 5** Click the **Version** tab. The File version field shows the version of the currently installed Install Wizard file.
- 

## Finding the Firmware and Driver Versions

To find the firmware and driver versions that are currently installed for your client adapter, click the ACU **Status** icon. The Firmware Version field on the Status screen shows the current firmware version, and the NDIS Driver Version field shows the current driver version.

## Finding the ACU Version

To find the version of ACU that is currently installed for your client adapter, click the ACU **About** icon. The About Aironet Client Utility screen shows the current ACU version.

## Finding the ACM Version

To find the version of ACM that is currently installed for your client adapter, right-click the **ACM** icon and click the **About** option. The About screen shows the current ACM version.

# Caveats

This section describes the resolved and open caveats for the software components in Install Wizard 1.8.

## Resolved Caveats

The following caveats are resolved in the software components of Install Wizard release 1.8.

- CSCdz36298—Itronix GoBook does not fully wake up with 350
 

The 350 client adapter has 4.25.30 firmware version 4.25.30 and driver version 8.2.3. When the wakeup process is started from the GoBook keyboard, the device starts to wake up but then hangs at a black or a blank screen with the cursor stuck in the upper left corner.
- CSCed45715—Client shows that authentication was started after a successful MAC authentication through WDS
 

After a client was successfully authenticated (configured for open authentication with a WEP key), the ACU still shows that the authentication process has started. The status page shows that the client is authenticating. However, the client already got a DHCP IP address and can ping the wired network.
- CSCed56475—Manual PAC provisioning might fail on Novell networks
 

If the user imports a PAC from an EAP-FAST profile, the PAC can be saved as a private PAC (with the correct EAP-FAST settings). When the PAC is saved as a private PAC, it is not found by the login module because on Novell networks, the login module does not know the Windows user name. The login module must look for the PAC in the global area.
- CSCin07193—ACU crashes on removing the card while site survey/link test on
 

If the user clicks on the Start button of the Site Survey/Link Test window and removes the client adapter, the ACU fails.
- CSCsb52876—ACU does not send response to ACS with EAP-GTC authentication
 

ACU does not send a response to the ACS. The EAP conversation is not finished, and the failed attempts log is not updated.
- CSCsc14393—Client fails to add entry to ACS error log
 

When an EAP-FAST login fails, the client adapter does not add an entry to the ACS error log explaining why the login failed.
- CSCsc16865—Client profile reauthenticates for no reason
 

By design, the client adapter reauthenticates whenever the active profile is changed. However, it is possible to change the profile without realizing it. If you open the RF Network screen in ACU for the active profile and click **OK**, the profile may change even though you did not make any changes. For an active infrastructure profile, ACU shows the currently in-use channel in the Channel drop-down box. If this value is different than the one saved in the profile, clicking OK to exit the screen results in a profile change and causes the client to reauthenticate.
- CSCsc22249—WZC service exits during PEAP-GTC logon
 

With the PEAP-GTC supplicant code (CiscoEapPeap.dll) from Install Wizard version 1.6, the Wireless Zero Config service must close because of an unexpected problem. This issue is seen when the access point is controlled by a controller that is running release 3.0.107 or 3.1.105. This issue is not seen on an autonomous IOS access point.
- CSCsc30871—ACU release 6.3 EAP-FAST with WPA and TKIP takes over an hour to log on

The user sometimes must wait long periods to log on to the network when using ACU release 6.3 EAP-FAST with WPA and TKIP. These periods can be up to an hour.

- CSCsc83446—Client driver corrupted when running automated scripts  
After running some automated scripts, the client cannot make successful WPA+PSK authentications.
- CSCsd34555—350 cannot pass traffic when AP is not in protection mode  
If the access point is not in protection mode, the 350 client adapter cannot pass traffic.
- CSCsd43743—EAP-GTC sends wrong PEAP version after tunnel establishment  
The PEAP-GTC module shipped with ACU sends the wrong PEAP version (0 instead of 1) after tunnel establishment. Authentication is not impacted. However, this issue affects the PEAP type that is reported by the ACS.
- CSCsd64229—350 client BSSID list element does not always contain WPA IE from beacon  
An external supplicant is not always able to verify the WPA four-way handshake. The driver does not always provide the necessary verification information in the BSSID list element that corresponds with the access point that the client is currently associated to. In particular, the BSSID list element might not include the WPA IE from the last beacon or probe response. The supplicant fails the third message in the four-way handshake.
- CSCsd77780—Windows change password logon is hidden behind EAP authentication status window  
The user has a Windows 2000 or Windows XP device with a 350 client. The user is prompted to change the Windows password every 30 days. The password change prompt window is hidden behind the EAP-FAST authentication status window. This issue also occurs when the user is authenticating with LEAP.
- CSCsh02841—A check of WPA capabilities returns error after first reboot  
When the Secure Services Client (SSC) first queries the 350 after driver installation and reboot, the 350 returns an error. The SSC returns to default capabilities, which do not include WPA. Because WPA is not included, the SSC cannot connect to access point that uses WPA and TKIP. After a second reboot, a correct list is returned by the 350.

## 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 at the following URL:

[http://www.cisco.com/cgi-bin/Support/Bugtool/launch\\_bugtool.pl](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/en/US/support/index.html>

Click **Product Support > Wireless**. Then choose your product and **Troubleshooting** to find information on the problem you are experiencing.

## Related Documentation

For more information about Cisco Aironet 350 and CB20A client adapters for Windows, refer to the following documents:

- *Cisco Aironet 350 and CB20A Wireless LAN Client Adapters Installation and Configuration Guide for Windows*, OL-1394-10  
[http://www.cisco.com/en/US/products/hw/wireless/ps4555/products\\_installation\\_and\\_configuration\\_guide\\_book09186a00804851b8.html](http://www.cisco.com/en/US/products/hw/wireless/ps4555/products_installation_and_configuration_guide_book09186a00804851b8.html)
- *Release Notes for Cisco Aironet 350 and CB20A Client Adapter Firmware 5.60.22*, OL-15693-01  
[http://www.cisco.com/en/US/products/hw/wireless/ps4555/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/wireless/ps4555/prod_release_notes_list.html)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

---

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

CCDE, CCVP, Cisco Eos, Cisco StadiumVision, the Cisco logo, DCE, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn is a service mark; and Access Registrar, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0801R)

Copyright © 2008 Cisco Systems, Inc.  
All rights reserved.