



Release Notes for Cisco Aironet Configuration Administration Tool (ACAT) 1.2

November 2003

These release notes describe features and caveats for the Cisco Aironet Configuration Administration Tool (ACAT) version 1.2.

Contents

- [Introduction, page 2](#)
- [Important Notes, page 3](#)
- [Obtaining ACAT Software, page 3](#)
- [Software Compatibility, page 4](#)
- [Removing ACAT Software, page 5](#)
- [Uninstalling Client Adapter Software, page 5](#)
- [New Features, page 6](#)
- [Caveats, page 8](#)
- [Troubleshooting, page 9](#)
- [Related Documentation, page 9](#)
- [Obtaining Documentation, page 9](#)
- [Obtaining Technical Assistance, page 10](#)
- [Obtaining Additional Publications and Information, page 12](#)



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

Copyright © 2003 Cisco Systems, Inc. All rights reserved.

Introduction

ACAT is a tool used by administrators to specify software installation options for client adapters located in PCs running a Windows operating system. The specified options are placed in a configuration file used by the Cisco Aironet Wireless LAN Client Adapter Installation Wizard (Install Wizard) to install the software components and a client adapter's configuration profiles. ACAT supports the Windows 98, ME, NT, 2000, and XP operating systems.

Using ACAT, an administrator can specify the following installation options:

- Software components
 - Client adapter radio firmware
 - Driver for a client adapter
 - Cisco Aironet Client Utility (ACU)
 - Cisco Aironet Client Monitor (ACM)
 - Security Modules (LEAP, EAP-SIM, and PEAP)
- Administrator global over-ride settings
- Client adapter configuration profiles
- Client adapter type
 - PCMCIA4800—Aironet 4800 series PCMCIA card
 - PCI4800—Aironet 4800 series PCI card
 - ISA4800—Aironet 4800 series ISA card
 - PCM-34x—Cisco Aironet 340 series PCMCIA card
 - PCI-34x—Cisco Aironet 340 series PCI client adapter
 - PCM-35x—Cisco Aironet 350 series PCMCIA card
 - MPI-35x—Cisco Aironet 350 series Mini-PCI card
 - PCI-35x—Cisco Aironet 350 series PCI card
 - CB20A—Cisco Aironet 5-GHz PC-Cardbus card

**Note**

An LMC-340 or LMC-350 card must be configured as a PCM adapter type (PCM-34x or PCM-35x).

Important Notes

WPA Migration Mode Not Supported by Clients

Although the software components included in client adapter Install Wizard version 1.2 support Wi-Fi Protected Access (WPA) authenticated key management for 350 series and CB20A cards on computers running Windows 2000 or XP (see the “WPA Support” section on page 6 for more information), they do not include support for WPA migration mode.

In order to use Cisco Aironet client adapters with WPA, the access point must be configured only for the WPA TKIP cipher. The use of the following migration-mode-supporting ciphers is not supported by Cisco WPA clients:

- TKIP + WEP128
- TKIP + WEP40

To support the coexistence of Cisco Aironet WPA clients and non-WPA clients, it is necessary to configure separate VLANs and encryption policies. Specifically, a VLAN with TKIP encryption mode and a VLAN with a compatible WEP encryption mode specified would be required. For additional information refer to the *Cisco IOS Software Configuration Guide for Cisco Aironet Access Points*.

Cisco Aironet Software Requires Completion of Encryption Authorization Form

In order to access Cisco Aironet software from the Software Center on Cisco.com, you must now fill out a form to receive authorization to download encrypted software. Registered Cisco.com users are required to fill out the form only once, while public users must do so once each session, each time software is downloaded. A form is automatically created for public users. The form for Registered Cisco.com users is located at the following URL: http://www.cisco.com/cgi-bin/Software/Crypto/crypto_main.pl

Obtaining ACAT Software

To obtain the latest ACAT software from the Cisco Web site, follow these steps:

-
- Step 1** Use your web browser to go to the Cisco Software Center at the following URL:
<http://www.cisco.com/public/sw-center/sw-wireless.shtml>
 - Step 2** Select **Option #2: Aironet Wireless Software Display Tables**.
 - Step 3** Select **Cisco Aironet Wireless LAN Client Adapters**.
 - Step 4** Under Windows System Administration Tool, select **Windows System Administration Tool**.
 - Step 5** Select the ACAT file (**ACAT-v12x.exe**) with the greatest version number, where v12x is the version number.
 - Step 6** Enter the requested information on the encryption authorization form.
 - Step 7** Read the terms and conditions of the Software License Agreement and click **Accept**.
 - Step 8** Select the ACAT file again to download it.
 - Step 9** Save the file to your computer's hard drive then exit the web browser.

- Step 10** Find the downloaded ACAT-v12x.exe file using Windows Explorer, double-click it, and extract the files to a directory on your hard drive. The following files are extracted:
- ACAT.exe—ACAT executable file.
 - ACAT.HLP—ACAT help file used by the ACAT program.
 - InstallData.txt —installation data file used by the ACAT program.



Note InstallData.txt is an ASCII text file that cannot be edited or changed. The file data is check-sum protected and if modified will generate an error when ACAT is activated.

Software Compatibility

ACAT version 1.2 software is compatible only with Install Wizard version 1.2 software.

Finding the ACAT Version

Follow the instructions in this section to find the version of ACAT that is currently loaded on your PC.

- Step 1** Open Windows Explorer.
- Step 2** Find the ACAT files.
- Step 3** Right-click the **ACAT.exe** file.
- Step 4** Click **Properties**.
- Step 5** Click the **Version** tab. The version of the currently loaded ACAT file is shown in the File version field.

Finding the Install Wizard Version

Follow the instructions in this section 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** file.
- Step 4** Click **Properties**.
- Step 5** Click the **Version** tab. The version of the currently installed Install Wizard file is shown in the File version field.

Removing ACAT Software

You can remove the ACAT software from your PC by deleting the following files:

- ACAT.exe
- ACAT.hlp
- InstallData.txt
- CiscoAdminConfig.dat (if located in the ACAT directory)

Uninstalling Client Adapter Software

When you run the Install Wizard using an ACAT generated configuration file set for a silent install, the main Install Wizard screen is not displayed. To uninstall the software components and profiles installed by the Install Wizard, follow these steps:

-
- Step 1** Click **Start > Settings > Control Panel > Add/Remove Programs**.
- Step 2** Select **Cisco Aironet Installation Wizard**.
- Step 3** Click **Change/Remove**.
- Step 4** When the Install Wizard screen appears, select **Uninstall All Components** and click **Next**.



Note Uninstall All Components removes all installed software components and all client adapter profiles in the PC registry.



Note The Custom Installation/Upgrade selection on the Install Wizard screen allows you to change the installation parameters and software components specified in the ACAT configuration file.

- Step 5** The Install Wizard screen indicates the uninstall progress. When a message appears that indicates the system is about to reboot, click **OK**.

When your PC reboots, the uninstall is complete.



Note If you uncompressed the Installation Wizard software package in a non-temporary folder, you need to manually delete the Install Wizard installation files and directories.

New Features

ACAT version 1.2 supports the following new features.

Silent Setup Options

Three new options are available when Silent Setup is selected on the Global Override screen:

- *Prompt for reboot*—the installation process displays a message indicating a reboot is necessary and asks if you want to reboot now.
- *Reboot silently*—the installation process automatically reboots the PC.
- *Do not reboot*—the installation process does not display a prompt message and waits for you to reboot the PC.

**Note**

For PCs running the Windows 98 operating system, the installation process automatically reboots

WPA Support

Wi-Fi Protected Access (WPA) is a standards-based, interoperable security enhancement that strongly increases the level of data protection and access control for existing and future wireless LAN systems. It is derived from and will be compatible with the upcoming IEEE 802.11i standard. WPA leverages Temporal Key Integrity Protocol (TKIP) and Michael message integrity check (MIC) for data protection and 802.1X for authenticated key management.

WPA supports two mutually exclusive key management types: WPA and WPA-Pre-shared key (WPA-PSK). Using WPA key management, clients and the authentication server authenticate to each other using an EAP authentication method, and the client and server generate a pairwise master key (PMK). The server generates the PMK dynamically and passes it to the access point. Using WPA-PSK key management, however, you configure a pre-shared key on both the client and the access point, and that pre-shared key is used as the PMK.

Only 350 series and CB20A cards that are installed on computers running Windows 2000 or XP and running LEAP or host-based EAP authentication can be used with WPA. Support for WPA is available in the software components included in Install Wizard version 1.2 or greater. However, if you want to use host-based EAP authentication with WPA, you must also install a host supplicant with WPA support. The following host supplicants are recommended for use with Cisco Aironet client adapters:

- Funk Odyssey Client supplicant version 2.2 (for Windows 2000)
- Windows XP Service Pack 1 and Microsoft supplicant Q815485 (for Windows XP)

**Note**

Refer to the *340, 350, and CB20A Wireless LAN Client Adapters Installation and Configuration Guide for Windows* (version OL-1394-07) for instructions on enabling WPA on your client adapter.

WPA must also be enabled on the access point. Access points must use Cisco IOS Release 12.2(11)JA or greater to enable WPA. Refer to the documentation for your access point for instructions on enabling this feature.

Fast Roaming (CCKM)

Some applications that run on a client device may require fast roaming between access points. Voice applications, for example, require seamless roaming to prevent delays and gaps in conversation. Support for fast roaming is available for LEAP-enabled clients in Install Wizard version 1.1 or later.

During normal operation, LEAP-enabled clients mutually authenticate with a new access point by performing a complete LEAP authentication, including communication with the main RADIUS server. However, when you configure your wireless LAN for fast roaming, LEAP-enabled clients securely roam from one access point to another without the need to reauthenticate with the RADIUS server. Using Cisco Centralized Key Management (CCKM), an access point that is configured for wireless domain services (WDS) uses a fast rekeying technique that enables client devices to roam from one access point to another in under 150 milliseconds (ms). Fast roaming ensures that there is no perceptible delay in time-sensitive applications such as wireless Voice over IP (VoIP), enterprise resource planning (ERP), or Citrix-based solutions.

This feature is enabled on the client adapter in two different ways, depending on the software installed:

- If you are using client adapter firmware version 5.30.xx (which is included in Install Wizard version 1.2), you need to enable fast roaming in ACAT or the Aironet Client Utility (ACU) version 6.2.
- If you are using client adapter firmware version 5.20.17 (which is included in Install Wizard version 1.1), fast roaming is supported automatically.

Regardless of how fast roaming is enabled on the client adapter, it must also be enabled on the access point.


Note

Access points must use Cisco IOS Release 12.2(11)JA or greater to enable fast roaming. Refer to the documentation for your access point for instructions on enabling this feature.


Note

If the Microsoft 802.1X supplicant is installed on your computer, you must disable one or two Windows parameters in order for this feature to operate correctly.

Scan For a Better Access Point

Selecting this feature causes the client adapter to look for a better access point if the signal strength of its associated access point is less than the specified value after the specified time and to switch associations if it finds one.

Example: If the default values of 20 seconds and 50% are used, the client adapter begins monitoring the strength of the signal received from its associated access point 20 seconds after becoming associated. The monitoring continues once per second. If the client detects a signal strength reading below 50%, it scans for a better access point.

Caveats

Getting Bug Information on Cisco.com

If you are a registered Cisco 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 identify existing bugs (or caveats) in Cisco software products.

Access the TAC Software Bug Toolkit at the following URL:

<http://www.cisco.com/support/bugtools/>

Open Caveats

The following caveats have not been resolved:

- CSCin53301—Some contents are partially seen on the RF Settings and Security pages.
The Defaults button does not uncheck the *Allow association to both WPA and non-WPA Authentications* option.
Workaround: Uncheck the *Allow association to both WPA and non-WPA Authentications* option.
- CSCin58186—ACAT reboot silently installation option.
The Reboot Silently option in the Silent Setup menu on the Global Override Settings tab requires user intervention to respond to a reboot message.
Workaround: You must click **Yes** on the message asking if you want to reboot now.
- CSCin58727—Settings in ACAT and ACU are not the same.
When configuring LEAP, ACAT allows LEAP Authentication Timeout values between 45 and 300 seconds. The Aironet Client Utility (ACU) allows LEAP Authentication Timeout values between 10 and 300 seconds.
Workaround: To set a LEAP Authentication Timeout value of less than 45 seconds, you must use the ACU after the installation completes.

Closed Caveats

The following caveat has been resolved:

- CSCea38113—Non-writable destination drive causes Install Wizard to fail
If you designate a non-writable drive (such as your computer's CD-ROM drive) as the destination folder for the ACU, the Install Wizard stops and does not complete. No error message or warning is displayed.
This problem has been resolved.

Troubleshooting

For the most up-to-date, detailed troubleshooting information, refer to the Cisco TAC website at the following URL:

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

Select **Hardware Support** or **Software Support** under Technical Assistance Center, then select **Wireless Devices** or **Wireless Software** on the left side of the screen.

Related Documentation

For more information about wireless LAN adapters and access points, refer to the following publications:

- *Cisco Aironet 340, 350, and CB20A Wireless LAN Client Adapters Installation and Configuration Guide for Windows* provides instructions for using the Install Wizard to install and configure the wireless client adapter, the firmware, the driver, and the utilities.
- *Cisco Aironet Access Point Software Configuration Guide* provides configuration information for 340 and 350 Series access points.
- *Cisco IOS Software Configuration Guide for Access Points* provides software configuration information for access points running Cisco IOS software.
- *Cisco Aironet Configuration Administration Tool (ACAT), 1.2 Administrator Guide for Windows* provides instructions on running the ACAT utility.

Obtaining Documentation

Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

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

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

International Cisco websites can be accessed from this URL:

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

Documentation CD-ROM

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html

All users can order annual or quarterly subscriptions through the online Subscription Store:

<http://www.cisco.com/go/subscription>

Ordering Documentation

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products MarketPlace:
<http://www.cisco.com/en/US/partner/ordering/index.shtml>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

You can submit comments electronically on Cisco.com. On the Cisco Documentation home page, click **Feedback** at the top of the page.

You can send your comments in e-mail to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

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

We appreciate your comments.

Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance.

Cisco TAC Website

The Cisco TAC website (<http://www.cisco.com/tac>) provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year.

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

<http://tools.cisco.com/RPF/register/register.do>

Opening a TAC Case

The online TAC Case Open Tool (<http://www.cisco.com/tac/caseopen>) is the fastest way to open P3 and P4 cases. (Your network is minimally impaired or you require product information). After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using these recommendations, your case will be assigned to a Cisco TAC engineer.

For P1 or P2 cases (your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to P1 and P2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

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

TAC Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Priority 1 (P1)—Your network is “down” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Priority 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Priority 3 (P3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Priority 4 (P4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- The *Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the *Cisco Product Catalog* at this URL:
http://www.cisco.com/en/US/products/products_catalog_links_launch.html
- Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: *Internetworking Terms and Acronyms Dictionary*, *Internetworking Technology Handbook*, *Internetworking Troubleshooting Guide*, and the *Internetworking Design Guide*. For current Cisco Press titles and other information, go to Cisco Press online at this URL:
<http://www.ciscopress.com>
- Packet magazine is the Cisco quarterly publication that provides the latest networking trends, technology breakthroughs, and Cisco products and solutions to help industry professionals get the most from their networking investment. Included are networking deployment and troubleshooting tips, configuration examples, customer case studies, tutorials and training, certification information, and links to numerous in-depth online resources. You can access Packet magazine at this URL:
<http://www.cisco.com/go/packet>
- iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
http://www.cisco.com/en/US/about/ac123/ac147/about_cisco_the_internet_protocol_journal.html
- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:
<http://www.cisco.com/en/US/learning/index.html>

CCIP, CCSP, the Cisco Arrow logo, the Cisco *Powered* Network mark, Cisco Unity, Follow Me Browsing, FormShare, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherSwitch, Fast Step, GigaStack, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, MGX, MICA, the Networkers logo, Networking Academy, Network Registrar, *Packet*, PIX, Post-Routing, Pre-Routing, RateMUX, Registrar, ScriptShare, SlideCast, SMARTnet, StrataView Plus, Stratm, SwitchProbe, TeleRouter, The Fastest Way to Increase Your Internet Quotient, TransPath, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site 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. (0304R)

Copyright © 2003 Cisco Systems, Inc. All rights reserved.

♻️ Printed in the USA on recycled paper containing 10% postconsumer waste.