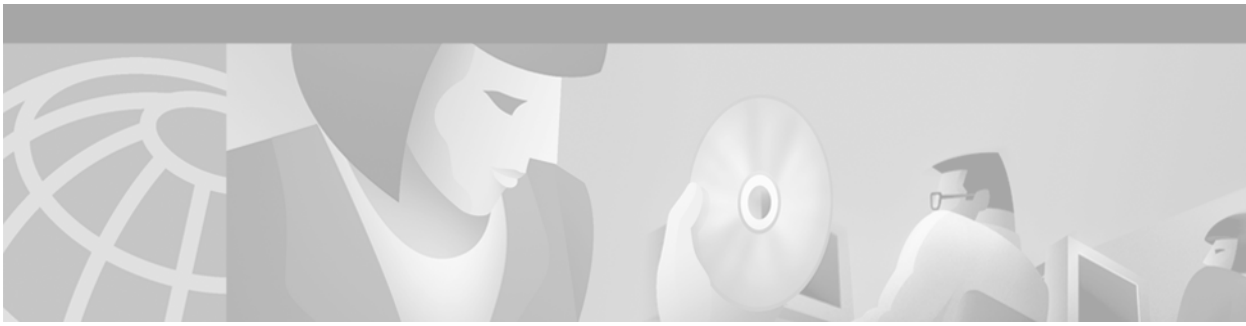

Release Notes for Cisco Aironet Access Points

January 22, 2001

These release notes describe features and caveats for Cisco Aironet 340 and 350 Series Access Points running firmware version 11.00. These release notes also contain important information about the device.

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Introduction

Cisco Aironet Access Points are wireless LAN transceivers that can act as the center point of a stand-alone wireless network or as the connection point between wireless and wired networks. In large installations, the roaming functionality provided by multiple Access Points allows wireless users to move freely throughout the facility while maintaining uninterrupted access to the network.

The Access Point uses a browser-based management system. The system settings are contained on web pages in the Access Point's firmware. You use your internet browser to view and adjust the Access Point's system settings.

CISCO SYSTEMS

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New Features

New Hardware Features in 350 Series Access Points

Inline Power

Cisco Aironet 350 series Access Points receive power through the Ethernet cable, so you don't need to attach a separate power cord to the Access Point. Plug the Ethernet cable into the Ethernet port on the back of the Access Point and plug the other end into one of three possible power sources:

- A Cisco Aironet power injector, part number AIR-PWRINJ1
- A switch with inline power, such as the Cisco Catalyst 3524-PWR-XL switch
- A power patch panel, such as the Cisco Catalyst Inline Power Patch Panel

Caution Cisco Aironet power injectors are designed for use with 350 series Access Points and bridges only. **Do not use the power injector with any other Ethernet-ready device.** Using the power injector with other Ethernet-ready devices can damage the equipment.

100-Milliwatt Radio Power

Cisco Aironet 350 Series Access Points use 100-milliwatt radios.

New Software Features in Access Point Firmware

Integrated Network Management

You can enable Cisco Discovery Protocol (CDP) on the Access Point to improve network monitoring. You also can use the Access Point management system to browse to other wireless devices on the network. You can monitor the devices and, in some cases, configure them. Consult Chapter 4, "Network Management," in the the *Cisco Aironet Access Point Software Configuration Guide* for more information.

System Security

You can restrict access to the Access Point management system to a list of users, you can encrypt data with Wired Equivalent Privacy (WEP), and you can use Extensible Authentication Protocol to protect authentication to your network. Consult the "Security Setup" section on page 3-8 of the *Cisco Aironet Access Point Software Configuration Guide* for more information.

Filtering

You can set up protocol filters to prevent or allow the use of specific protocols through the Access Point, and you can control packet forwarding from the Access Point to specific network devices with unicast and multicast filtering. Consult the "Using Filters" section on page 3-20 of the *Cisco Aironet Access Point Software Configuration Guide* for more information.

Maintaining Firmware

You can upgrade the Access Point firmware, distribute new firmware to other Access Points, and distribute a specific configuration to other Access Points. Consult Chapter 5, "Maintaining Firmware" in the *Cisco Aironet Access Point Software Configuration Guide* for more information.

Standby Assignment

You can assign the Access Point to act as a backup for another Access Point to provide uninterrupted network connectivity in case an Access Point malfunctions. Consult the "Using Hot Standby Mode" section on page 7-5 of the *Cisco Aironet Access Point Software Configuration Guide* for more information.

World Mode for International Travellers

With world mode enabled, the Access Point provides radio channel settings for client devices that associate with the Access Point. A visitor from Japan using world mode on a client device can associate with an Access Point in California and automatically switch to the correct channel settings. Consult the "Enable World Mode" section on page 3-34 of the *Cisco Aironet Access Point Software Configuration Guide* for more information.

Load Balancing

The Access Point provides information on number of users, bit error rates, and signal strength to client devices, and the clients select the Access Point that provides the best network connection.

Channel Agility

When you select **yes** for *Search for less-congested radio channel* on the management system's AP Radio Hardware page, the Access Point scans for the radio channel that is least busy and selects that channel for use. The Access Point scans at power-up and when the radio settings are changed. Consult the "Settings on the AP Radio Hardware Page" section on page 3-33 of the *Cisco Aironet Access Point Software Configuration Guide* for more information.

Installation Notes

You can find the latest release of Access Point firmware at the following URL:

http://www.cisco.com/pcgi-bin/tablebuild.pl/aironet-340

Caution The operational voltage range for Cisco Aironet 350 series Access Points is 24 to 60 VDC. Higher voltage can damage the equipment.

Caution Cisco Aironet power injectors are designed for use with 350 series Access Points and bridges only. **Do not use the power injector with any other Ethernet-ready device.** Using the power injector with other Ethernet-ready devices can damage the equipment.

Limitations and Restrictions

MIB File Compatible with Firmware Version 11.00 and Later

The Aironet Access Point MIB file (AWCVX-MIB) is supported by Access Point firmware version 11.00 only. Earlier versions of firmware do not support this MIB.

Caveats

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 identify existing bugs (or caveats) in Cisco software products.

Access the TAC Software Bug Toolkit today at http://www.cisco.com/support/bugtools/.

Open Caveats

The following caveats have not been resolved for firmware version 11.00.

- Must use Aironet extensions in repeater mode.

  You must enable Aironet extensions on the AP Radio Advanced page when you set up the Access Point as a repeater. If you disable Aironet extensions when in repeater mode, connect a serial cable to the Access Point and enable Aironet extensions with the console interface.

- Difficult to end Telnet session (CSCav00156).

  When you finish running a Telnet session to the Access Point you must close the Telnet window to end the session.

- Network response times might be slow on networks with thousands of client devices(CSCdr95686).

  On large, flat networks with thousands of client devices, the Access Point might respond slowly to network traffic. Segmenting the network into subnets can improve Access Point performance.

- Must restart unit twice to enable standby mode (CSCds36123).

  When you set up an Access Point as a standby unit, follow the instructions on page 7-5 in the *Cisco Aironet Access Point Software Configuration Guide*. When you complete the instruction steps, return to the Hot Standby page and click **Start Hot Standby Mode** again. When the unit restarts it is in standby mode.

- Corrupt characters sometimes appear in client names in the Association Table (CSCds56664).

  Corrupt characters sometimes appear in the names of clients listed in the Access Point's Association Table.

- Access Point does not support client devices using LEAP with WEP keys of different lengths (CSCds61358).

  The length of the transmit WEP key set on the Access Point determines the length of the session keys used by LEAP clients. For example, if the transmit key on the Access Point is a 128-bit key, all LEAP clients associated to the Access Point must use 128-bit WEP keys.

- Inoperable link in console and Telnet interfaces (CSCds71375 and CSCds71448).

  In the console and Telnet (CLI) interfaces the link to the FTP Server Setup page is inoperable on the Update All Firmware From File Server and Selectively Update Firmware From File Server pages.

- No address filtering pages in console and Telnet interfaces (CSCdt02327).

  You cannot set up MAC address filters through the console and Telnet interfaces. Use the browser interface to create and enable MAC address filters.

- User management passwords corrupted when updating firmware from version 10.12 to 11.00 (CSCdt07632).

  When upgrading Access Point firmware from version 10.12 to 11.00 with user information in the user manager database, the user passwords are corrupted during the upgrade. This problem also occurs if the users are added to the user manager database in version 10.12, the firmware is upgraded to version 10.13, and then upgraded to version 11.00. If the users and passwords are created in version 10.13, the passwords are not corrupted during the upgrade. To avoid being locked out of the Access Point, disable the user manager before upgrading from version 10.12 to 11.00. After the upgrade, re-enter the user passwords and enable user manager.

- 340 Series Access Point reports polls from disassociated client device (CSCdt09173).

  Client devices using Fast PSP mode and LEAP shut down but continue to send polls to the Access Point to which they were associated. The Access Point repeatedly reports that it is receiving polls from a client device that is not associated. To avoid this problem, do not set up client devices to use both Fast PSP mode and LEAP.

- Broken help links on Access Point and Bridge CD (CSCdt12716).

  If you change the default help root URL on a 350 series Access Point's Web Server Setup page to use the help files on the Cisco Aironet Access Point and Bridge CD, the help buttons on the AP Radio Port, AP Radio Advanced, AP Radio Hardware, and AP Radio Identification pages will not work. To use the most up-to-date online help, leave the default help root URL at its default setting.

Resolved Caveats

The following caveats have been resolved in firmware version 11.00:

- Cannot set supported data rates in BOOTP configuration file (CSCds18351).

  The Access Point ignores data rate settings in a BOOTP configuration file.

- Access Point ignores host name field in BOOTP configuration file (CSCds18356).

  The Access Point ignores a BOOTP response that contains the host name to be used when retrieving the configuration file. The Access Point attempts to retrieve the configuration file from the designated FTP server but not from the BOOTP server.

- Login difficult with multiple Access Points running (CSCds58844).

  With multiple Access Points operating with the same security configuration, client devices have trouble logging into the the network. They can associate but jump from one Access Point to another.

Troubleshooting

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

Related Documentation

Use the following documents in conjunction with this document.

- *Quick Start Guide: Cisco Aironet Access Points*
- *Cisco Aironet Access Point Hardware Installation Guide*
- *Cisco Aironet Access Point Software Configuration Guide*

Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

World Wide Web

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

- http://www.cisco.com
- http://www-china.cisco.com
- http://www-europe.cisco.com

Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships 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 CCO users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

Software Configuration Tips on the Cisco TAC Home Page

Visit these Cisco TAC pages for more information on upgrading software. These pages require you to log in as a Cisco registered user.

Aironet Product	Path from www.cisco.com	Hyperlink
Cisco Aironet 340 Access Points	Cisco > Service & Support > Technical Assistance Center > Products > Cisco Aironet 340 Access Points	Go to TAC web page
Cisco Aironet 340 Client Adapter	Cisco > Service & Support > Technical Assistance Center > Products > Cisco Aironet 340 Client Adapters	Go to TAC web page
Cisco Aironet Ethernet Bridges	Cisco > Service & Support > Technical Assistance Center > Products > Cisco Aironet 340 Ethernet Bridges	Go to TAC web page

Getting 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. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

Cisco.com

Cisco.com is the foundation of a suite of interactive, networked services that provides immediate, open access to Cisco information and resources at anytime, from anywhere in the world. This highly integrated Internet application is a powerful, easy-to-use tool for doing business with Cisco.

Cisco.com provides a broad range of features and services to help customers and partners streamline business processes and improve productivity. Through Cisco.com, you can find information about Cisco and our networking solutions, services, and programs. In addition, you can resolve technical issues with online technical support, download and test software packages, and order Cisco learning materials and merchandise. Valuable online skill assessment, training, and certification programs are also available.

Customers and partners can self-register on Cisco.com to obtain additional personalized information and services. Registered users can order products, check on the status of an order, access technical support, and view benefits specific to their relationships with Cisco.

To access Cisco.com, go to the following website:

http://www.cisco.com

Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

http://www.cisco.com/tac

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

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

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

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

Contacting TAC by Telephone

If you have a priority level 1(P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

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

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

This document is to be used in conjunction with the documents listed in the "Related Documentation" section.