



Release Notes for Cisco Aironet Conversion Upgrade Image 2.0 for Cisco IOS Software

February 5, 2004

These release notes describe features and caveats for the Cisco Aironet Conversion Upgrade Image 2.0 for Cisco IOS software for Cisco Aironet 1200 Series Access Points. This Upgrade Image converts 350 and 1200 series access point systems from VxWorks to Cisco IOS Release 12.2(13)JA2.

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Introduction

The Cisco IOS Conversion Upgrade Image for Cisco Aironet 350 and 1200 Series Access Points converts an access point system from VxWorks to Cisco IOS Release 12.2(13)JA2. For more information on features and caveats in this release, click this link to browse to the release notes for Cisco IOS Release 12.2(13)JA2:

<http://www.cisco.com/univercd/cc/td/doc/product/wireless/airo1200/accsspts/bu12213/index.htm>

When you use the upgrade image with the Cisco Aironet Conversion Tool for Cisco IOS Software, the upgrade image and the conversion tool maintain the access point configuration while converting the access point system to Cisco IOS software. When you load the upgrade image onto an access point without using the conversion tool, the upgrade image converts the access point system to Cisco IOS software with all settings at factory defaults.

System Requirements

To successfully complete the upgrade process, your access point must meet these requirements:

- Your access point must be running VxWorks version 12.03T, 12.02T1, 12.01T1, 12.00T, 11.23T, or 11.21



Note

The upgrade image and the conversion tool do not support VxWorks version 12.04. Access points running operating system version 12.04 must be downgraded to a supported operating system version before using the upgrade image or the conversion tool.

- Your access point must have at least 4 MB of free memory. To ensure that the access point has enough free memory, set the **Maximum memory reserved for Detailed Event Trace Buffer (bytes)** setting on the Event Handling Setup page to **0**.




Note

Cisco Aironet 340 Series Access Points do not support Cisco IOS software. Do not attempt to load the upgrade image on 340 series access points.

Finding the Software Version

On access points that do not run Cisco IOS software, the software version appears in red at the top left of most pages in the web-browser interface. The home page on access points not running Cisco IOS software looks like the page in [Figure 1](#).

Figure 1 Home Page on Access Points not Running Cisco IOS Software

Nwc-Lab5b-Bucki2 Summary Status 

Cisco 1200 Series AP 12.00T

Home Map Network Associations Setup Logs Help Uptime: 11 days, 20:21:48

Current Associations				
Clients: 0 of 3	Repeaters: 0 of 0	Bridges: 0 of 0	APs: 4	

Recent Events		
Time	Severity	Description
7 days, 00:18:17	Info	Deauthenticating 00070eb96eb6, reason "Inactivity"
6 days, 23:51:37	Info	Station 00070eb96eb6 Associated
6 days, 23:51:37	Info	Station 00070eb96eb6 Authenticated
6 days, 23:50:32	Info	Deauthenticating 0040963398c9, reason "Inactivity"
6 days, 23:41:07	Info	Station 0040963398c9 Associated

Network Ports				Diagnostics
Device	Status	Mb/s	IP Addr.	MAC Addr.
Ethernet	Up	100.0	192.168.138.15	00059a3842c5
AP Radio: Internal	Up	11.0	192.168.138.15	00059a3842c5
AP Radio: Module	Up	54.0	192.168.138.15	00059a3842c5

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Obtaining the Conversion Upgrade Image

Follow these steps to download a copy of the upgrade image:

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- Step 1** Click this link to browse to the Cisco IOS Software Center on Cisco.com:
<http://www.cisco.com/public/sw-center/sw-ios.shtml>
 - Step 2** In the menu on the left, click **Wireless Software** to go to the Wireless LAN Software page.
 - Step 3** On the Wireless LAN Software page, click **Option #2: Aironet Wireless Software Display Tables**.
 - Step 4** Under Cisco Aironet Access Point Firmware and Utilities, click **Cisco Aironet 1200 Series (VxWorks)**.
 - Step 5** Select the most recent release of the upgrade image, such as AP1200-Cisco-IOS-Upgrade-v2.img.
 - Step 6** On the Encryption Authorization Form, enter the requested information, read the encryption information, and check the boxes that apply.
 - Step 7** Click **Submit**.
 - Step 8** Read and accept the terms and conditions of the Software License Agreement.
 - Step 9** Select the upgrade image again to download it.
 - Step 10** Save the upgrade image on your computer or on a local drive on your network.
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Using the Conversion Upgrade Image

If your access point does not run Cisco IOS software, you can use the conversion tool and the upgrade image or the upgrade image alone to convert the access point system to Cisco IOS operation.

Using the Upgrade Image with the Conversion Tool

Use the upgrade image with the conversion tool to maintain the current access point configuration after the conversion. Refer to the *Cisco Aironet Conversion Tool for Cisco IOS Software* for complete instructions on using the upgrade image with the conversion tool. Click this link to browse to the *Cisco Aironet Conversion Tool for Cisco IOS Software*:

<http://www.cisco.com/univercd/cc/td/doc/product/wireless/airo1200/accsspts/tool2ios/index.htm>

Using the Upgrade Image Without the Conversion Tool

To convert to Cisco IOS software without maintaining the current access point configuration, load the upgrade image on the access point just as you would when performing a firmware upgrade.

Follow these steps to convert your access point system to Cisco IOS software and reset the configuration to factory defaults:

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- Step 1** Type the access point's IP address in your browser's address line to browse to the access point web-browser interface.
 - Step 2** Click **Setup** on the Summary Setup screen.
 - Step 3** Under Services, click **Cisco Services**.
 - Step 4** Under Fully Update Firmware, click **Through Browser**.
 - Step 5** Click **Browse** to browse to the upgrade image file and select it.
 - Step 6** Click **Browser Update Now**. The upgrade process begins.
- When the upgrade completes, a message appears that asks you to wait for the access point to reboot.

**Caution**

Do not power-cycle the access point until it has completely rebooted. After the upgrade process, the reboot can take up to 30 minutes to complete. Removing power from the access point during the reboot can make the unit inoperable.

After it reboots, the access point runs Cisco IOS Release 12.2(13)JA2. To access your access point, browse to the access point and enter **Cisco** as the administrator username and **Cisco** as the password.

Important Notes

This section describes important information about access points running Cisco IOS software. For more information on Cisco IOS releases for access points, refer to the release notes for specific releases. Click this link to browse to the release notes for Cisco IOS Release 12.2(13)JA2:

<http://www.cisco.com/univercd/cc/td/doc/product/wireless/airo1200/acsspts/bu12213/index.htm>

Radio MAC Address Appears in ACU

When a Cisco Aironet client device associates to a 1200 series access point running Cisco IOS software, the access point MAC address that appears on the Status page in the Aironet Client Utility (ACU) is the MAC address for the access point radio. The MAC address for the access point Ethernet port is printed on the label on the back of the access point.

Radio MAC Address Appears in Access Point Event Log

When a client device roams from an access point (such as access point alpha) to another access point (access point bravo), a message appears in the event log on access point alpha stating that the client roamed to access point bravo. The MAC address that appears in the event message is the MAC address for the radio in access point bravo instead of the Ethernet port in access point bravo.

Repeater Access Points Running Cisco IOS Software Cannot Associate to Parent Access Points not Running Cisco IOS Software

Access points that do not run Cisco IOS software (340 series access points and 350 series access points that have not been upgraded to Cisco IOS software) cannot serve as parents for repeater access points that run Cisco IOS software.

Troubleshooting

For the most up-to-date, detailed troubleshooting information, refer to the Cisco Technical Support Website at

<http://www.cisco.com/en/US/support/index.html>.

Related Documentation

These documents describe installation and configuration of 1200 series access points:

- *Quick Start Guide: Cisco Aironet 1200 Series Access Points*
- *Cisco IOS Software Configuration Guide for Cisco Aironet Access Points*
- *Cisco IOS Command Reference for Cisco Aironet Access Points and Bridges*
- *Installation Instructions for Cisco Aironet Power Injectors*

- *Cisco Aironet Conversion Tool for Cisco IOS Software*
- *Release Notes for Cisco Aironet 350, 1100, and 1200 Series Access Points for Cisco IOS Release 12.2(13)JA2*

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 Technical Support Website

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

Accessing all the tools on the Cisco Technical Support 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>

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



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