



# Release Notes for 1200 Series Access Points for Cisco IOS Release 12.2(8)JA

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**February 18, 2003**

These release notes describe features, enhancements, and caveats for Cisco IOS Release 12.2(8)JA. They also provide important information about 1200 series access points.

## Contents

These release notes contain the following sections:

- [Introduction, page 2](#)
- [System Requirements, page 2](#)
- [New Features, page 4](#)
- [Installation Notes, page 4](#)
- [Important Notes, page 6](#)
- [Caveats, page 7](#)
- [Troubleshooting, page 8](#)
- [Related Documentation, page 8](#)
- [Obtaining Documentation and Submitting a Service Request, page 11](#)



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# Introduction

The Cisco Aironet Access Point is a wireless LAN transceiver that acts as the connection point between wireless and wired networks or as the center point of a standalone wireless network. In large installations, the roaming functionality provided by multiple access points enables wireless users to move freely throughout the facility while maintaining uninterrupted access to the network.

You can configure and monitor 1200 series access points using the command-line interface (CLI), the browser-based management system, or Simple Network Management Protocol (SNMP).

## System Requirements

You can install Cisco IOS Release 12.2(8)JA on a 1200 series access point that has been configured at the factory to run Cisco IOS.

**Note**

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Cisco Aironet 340 and 350 Series Access Points and 1200 series access points that currently run firmware version 12.01T or earlier do not support IOS. Do not attempt to load an IOS image on an access point that does not run IOS.

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## Determining the Software Version


To determine the version of IOS running on your access point, use a Telnet session to log into the access point and enter the **show version** EXEC command. This example shows command output from an access point running Cisco IOS Release 12.2(8)JA:

```
ap1200>show version
Cisco Internetwork Operating System Software
IOS (tm) C1200 Software (C1200-K9W7-M), Version 12.2(8)JA
Copyright (c) 1986-2003 by Cisco Systems, Inc.
```

On access points running IOS, you can also find the software version on the System Software Version page in the access point's web-browser interface.

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

Figure 1 Home Page on Access Points not Running Cisco IOS

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	<a href="#">Info</a>	Deauthenticating 00070eb96eb6, reason "Inactivity"
6 days, 23:51:37	<a href="#">Info</a>	Station 00070eb96eb6 Associated
6 days, 23:51:37	<a href="#">Info</a>	Station 00070eb96eb6 Authenticated
6 days, 23:50:32	<a href="#">Info</a>	Deauthenticating 0040963398c9, reason "Inactivity"
6 days, 23:41:07	<a href="#">Info</a>	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

000023

## Upgrading to a New Software Release

For instructions on installing access point software:

- Follow this link to the Cisco Aironet Install and Upgrade page:  
[http://www.cisco.com/en/US/products/hw/wireless/ps430/tsd\\_products\\_support\\_install\\_and\\_upgrade.html](http://www.cisco.com/en/US/products/hw/wireless/ps430/tsd_products_support_install_and_upgrade.html)
- Click this link to browse to the Cisco IOS Software Center on Cisco.com:  
<http://www.cisco.com/cisco/software/navigator.html>  
 Log into Cisco.com to use the Cisco IOS Upgrade Planner.

# New Features

This section lists new features in Cisco IOS Release 12.2(8)JA.

## Support for 1200 Series Access Points

Cisco IOS Release 12.2(8)JA can be loaded on 1200 series access points that are configured at the factory for IOS.

## Support for TACACS+

Cisco IOS Release 12.2(8)JA supports TACACS+. TACACS+ provides detailed accounting information and flexible administrative control over authentication and authorization processes. It provides secure, centralized validation of administrators attempting to gain access to your access point.

# Installation Notes

This section contains information you should keep in mind when installing 1200 series access points.

## Installation in Environmental Air Space

This section provides information on installing 1200 series access points in environmental air space, such as above suspended ceilings.

Cisco Aironet 1200 Series Access Points provide adequate fire resistance and low smoke-producing characteristics suitable for operation in a building's environmental air space, such as above suspended ceilings, in accordance with Section 300-22(C) of the *National Electrical Code* (NEC) and Sections 2-128, 12-010(3) and 12-100 of the *Canadian Electrical Code*, Part 1, C22.1.

**Caution**

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The power injector is not intended for use in extremely high or low temperatures or in environmental air spaces, such as above suspended ceilings.

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**Note**

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If you plan to mount a 1200 series access point with a 5-GHz radio in an area subject to environmental air space, Cisco recommends that you mount the access point horizontally so that its antennas point down. Doing so ensures that the access point complies with regulatory requirements for environmental air space with the 5-GHz radio installed.

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## Power Considerations

This section describes issues you should consider before applying power to an access point.

**Caution**

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The nominal voltage for 1200 series access points is 48 VDC, and the access point is operational up to 60 VDC. Voltage higher than 60 VDC can damage the equipment.

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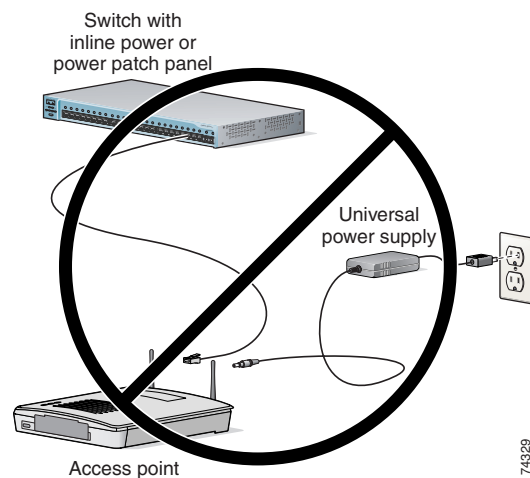
**Caution**

Cisco Aironet power injectors are designed for use with Cisco Aironet 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.

## Use Only One Power Option

You cannot provide redundant power to the access point with both DC power to its power port and inline power from a patch panel or powered switch to the access point's Ethernet port. If you apply power to the access point from both sources, the switch or power patch panel might shut down the port to which the access point is connected. [Figure 2](#) shows the power configuration that can shut down the port on the patch panel or powered switch.

**Figure 2** Improper Power Configuration Using Two Power Sources



## Operating 5-GHz Radio Requires Power Injector, Power Module, or Catalyst 3550-24 PWR Switch

The 1200 series power injector and the 1200 series power module support operation of the 5-GHz radio in the access point. Currently, the Catalyst 3550-24 PWR switch supports power for both the 2.4-GHz radio and the 5-GHz radio. Other switches and power patch panels might not provide enough power for the 5-GHz radio.

## Access Point Requires 1200 Series Universal Power Supply and Power Injector

The 350 series universal power supply and power injector are not compatible with the 1200 series access point. If you use a power injector or a power module to provide power to a 1200 series access point, you must use a 1200 series universal power supply. If you need to use a power injector to inject power into the access point's Ethernet port, you must use a 1200 series power injector.

## Antenna Installation

For instructions on the proper installation and grounding of external antennas for 1200 series access points, refer to the National Fire Protection Association's *NFPA 70, National Electrical Code*, Article 810, and the Canadian Standards Association's *Canadian Electrical Code*, Section 54.



Warning

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**Do not install the antenna near overhead power lines or other electric light or power circuits, or where it can come into contact with such circuits. When installing the antenna, take extreme care not to come into contact with such circuits, as they may cause serious injury or death.**

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## Important Notes

This section describes important information about the access point.

### Radio MAC Address Appears in ACU

When a Cisco Aironet client device associates to a 1200 series access point running IOS, 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.

### Mask Field on IP Filters Page Behaves the Same as in CLI

In Cisco IOS Release 12.2(8)JA, the mask that you enter in the Mask field on the IP Filters page in the access point GUI behaves the same way that a mask behaves when you enter it in the CLI. If you enter 255.255.255.255 as the mask, the access point accepts any IP address. If you enter 0.0.0.0, the access point looks for an exact match with the IP address that you entered in the IP Address field.

# Caveats

This section lists open and resolved caveats in Cisco IOS Release 12.2(8)JA.

## Open Caveats

These caveats are open in Cisco IOS Release 12.2(8)JA:

- CSCea04097—If you remove a RADIUS server from the access point configuration while a device is attempting to authenticate to the server through the access point, the access point sometimes reboots. Workaround: make sure no devices are attempting to authenticate through the access point before you change or remove a RADIUS server from the access point configuration.
- CSCea04766—You cannot perform a link test from the access point to a client device that is associated on a VLAN other than the native VLAN.
- CSCea14120—SSH is not enabled when you select **Enabled** on the Telnet/SSH page in the GUI. Workaround: use the CLI to enable SSH. Click this URL to browse to complete instructions for enabling SSH in Cisco IOS:

[http://www.cisco.com/en/US/docs/ios/12\\_2/security/configuration/guide/scfssh.html](http://www.cisco.com/en/US/docs/ios/12_2/security/configuration/guide/scfssh.html)

- CSCea14429—When the access point is in repeater mode, you cannot use the GUI to disable authentication modes for the repeater radio. Workaround: use the CLI to disable authentication types for the repeater radio, or use the GUI to change the radio role back to root, disable the authentication types, and then set the role back to repeater.
- CSCdz35651—When you enter the **debug all** command in the CLI, the access point sometimes reboots.
- CSCdz41787—The access point GUI does not work with Netscape Navigator version 6.0. The access point web-browser interface is fully compatible with Netscape Navigator, version 4.x, and Microsoft Internet Explorer, version 5.x or later.
- CSCdz44075—The status LED on top of the access point does not turn red to indicate that the access point is undergoing a firmware upgrade.
- CSCdz45435—Access point loses synchronization with the NTP server. If NTP is enabled, the access point is able to synchronize its time with the time server. However, after 15 minutes the access point time is no longer synchronized and will not synchronize again until the access point is rebooted or NTP is disabled and re-enabled. When the time is unsynchronized, the pages in the access point web-browser interface display access point uptime instead of clock time.
- CSCdz51009—Firmware upgrade fails when you use Microsoft Internet Explorer version 5.01 SP2 to upgrade firmware using the HTTP Upgrade page in the GUI. Workaround: Use a later version of Microsoft Internet Explorer to perform HTTP firmware upgrades.
- CSCdz65877—When a workgroup bridge or a repeater access point with MIC and CDP enabled associates to your access point using a non-native VLAN, your access point displays this message:  

```
ap: Critical Memory allocation of 760 bytes failed from 0xA4B54
```

Workaround: Disable MIC or CDP on workgroup bridges or repeaters that are associated to your access point on non-native VLANs.

- CSCdz73701—You cannot add the access point as a managed device to these components of CiscoWorks: CD One Fifth Edition version 2.1, Resource Manager Essentials version 3.4, and Resource Manager Essentials Incremental Device Support version 3.4.
- CSCdz73769—You cannot view the access point in CiscoView version 5.4.

- CSCdz76044—The Network Map page in the access point GUI incorrectly lists 1230 access points as client devices rather than as access points.
- CSCdz76076—The Refresh button on the Network Map page in the access point GUI does not refresh the page. Workaround: Use the refresh button on your browser to refresh the Network Map page.
- CSCdz80894—The statistics counters for packets received over the radio interfaces on the Network Interfaces page always indicate 0 regardless of the number of packets received.
- CSCdz84002—When you attempt to load an unsupported file format for the New Startup Configuration File in the access point GUI, the access point sometimes loses its bridge virtual interface (BVI). Workaround: Press and hold the MODE button on the back of the access point to reload the configuration.
- CSCdz84370—Access points that are not running IOS (340, 350, and 1200 series access points) cannot serve as the parent for a 1230 access point in repeater mode.
- CSCdz88122—If the parent of a repeater access point shuts down, the repeater does not roam to another parent access point until the repeater reboots.
- CSCdz89120—The Use Daylight Savings Time button on the Services: NTP page does not adjust the access point clock to Daylight Saving Time.

## Resolved Caveats

No caveats are resolved in Cisco IOS Release 12.2(8)JA.

## Troubleshooting

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

## Related Documentation

This section lists documents related to Cisco IOS Release 12.2(4)JA and to 1100 series access points.

## Platform-Specific Documents

These documents describe installation and configuration of 1100 and 1200 series access points:

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



## Cisco IOS Software Documentation Set

Table 1 lists the contents of the Cisco IOS Release 12.2 software documentation set. These documents are available in electronic form, and you can order them in printed form.

You can find the most current Cisco IOS documentation on Cisco.com. Follow this link path to find the documentation for Cisco IOS Release 12.2:

**Technical Documents: Documentation Home Page: Cisco IOS Software Configuration: Cisco IOS Release 12.2**

**Table 1 Cisco IOS Release 12.2 Documentation Set**

Books	Major Topics
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Configuration Fundamentals Configuration Guide</i></li> <li>• <i>Cisco IOS Configuration Fundamentals Command Reference</i></li> </ul>	Cisco IOS User Interfaces File Management System Management
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Bridging and IBM Networking Configuration Guide</i></li> <li>• <i>Cisco IOS Bridging and IBM Networking Command Reference, Volume 1 of 2</i></li> <li>• <i>Cisco IOS Bridging and IBM Networking Command Reference, Volume 2 of 2</i></li> </ul>	Transparent Bridging SRB Token Ring Inter-Switch Link Token Ring Route Switch Module RSRB DLSW+ Serial Tunnel and Block Serial Tunnel LLC2 and SDLC IBM Network Media Translation SNA Frame Relay Access NCIA Client/Server Airline Product Set DSPU and SNA Service Point SNA Switching Services Cisco Transaction Connection Cisco Mainframe Channel Connection CLAW and TCP/IP Offload CSNA, CMPC, and CMPC+ TN3270 Server
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Dial Technologies Configuration Guide: Dial Access</i></li> <li>• <i>Cisco IOS Dial Technologies Configuration Guide: Large-Scale Dial Applications</i></li> <li>• <i>Cisco IOS Dial Technologies Command Reference, Volume 1 of 2</i></li> <li>• <i>Cisco IOS Dial Technologies Command Reference, Volume 2 of 2</i></li> </ul>	Dial Access Modem and Dial Shelf Configuration and Management ISDN Configuration Signaling Configuration Point-to-Point Protocols Dial-on-Demand Routing Dial Backup Dial Related Addressing Service Network Access Solutions Large-Scale Dial Solutions Cost-Control Solutions Internetworking Dial Access Scenarios

**Table 1 Cisco IOS Release 12.2 Documentation Set (continued)**

<b>Books</b>	<b>Major Topics</b>
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Interface Configuration Guide</i></li> <li>• <i>Cisco IOS Interface Command Reference</i></li> </ul>	LAN Interfaces Serial Interfaces Logical Interfaces
<ul style="list-style-type: none"> <li>• <i>Cisco IOS IP Configuration Guide</i></li> <li>• <i>Cisco IOS IP Command Reference, Volume 1 of 3: Addressing and Services</i></li> <li>• <i>Cisco IOS IP Command Reference, Volume 2 of 3: Routing Protocols</i></li> <li>• <i>Cisco IOS IP Command Reference, Volume 3 of 3: Multicast</i></li> </ul>	IP Addressing IP Services IP Routing Protocols IP Multicast
<ul style="list-style-type: none"> <li>• <i>Cisco IOS AppleTalk and Novell IPX Configuration Guide</i></li> <li>• <i>Cisco IOS AppleTalk and Novell IPX Command Reference</i></li> </ul>	AppleTalk Novell IPX
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Apollo Domain, Banyan VINES, DECnet, ISO CLNS, and XNS Configuration Guide</i></li> <li>• <i>Cisco IOS Apollo Domain, Banyan VINES, DECnet, ISO CLNS, and XNS Command Reference</i></li> </ul>	Apollo Domain Banyan VINES DECnet ISO CLNS XNS
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Voice, Video, and Fax Configuration Guide</i></li> <li>• <i>Cisco IOS Voice, Video, and Fax Command Reference</i></li> </ul>	Voice over IP Call Control Signaling Voice over Frame Relay Voice over ATM Telephony Applications Trunk Management Fax, Video, and Modem Support
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Quality of Service Solutions Configuration Guide</i></li> <li>• <i>Cisco IOS Quality of Service Solutions Command Reference</i></li> </ul>	Packet Classification Congestion Management Congestion Avoidance Policing and Shaping Signaling Link Efficiency Mechanisms
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Security Configuration Guide</i></li> <li>• <i>Cisco IOS Security Command Reference</i></li> </ul>	AAA Security Services Security Server Protocols Traffic Filtering and Firewalls IP Security and Encryption Passwords and Privileges Neighbor Router Authentication IP Security Options Supported AV Pairs

**Table 1 Cisco IOS Release 12.2 Documentation Set (continued)**

<b>Books</b>	<b>Major Topics</b>
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Switching Services Configuration Guide</i></li> <li>• <i>Cisco IOS Switching Services Command Reference</i></li> </ul>	Cisco IOS Switching Paths NetFlow Switching Multiprotocol Label Switching Multilayer Switching Multicast Distributed Switching Virtual LANs LAN Emulation
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Wide-Area Networking Configuration Guide</i></li> <li>• <i>Cisco IOS Wide-Area Networking Command Reference</i></li> </ul>	ATM Frame Relay SMDS X.25 and LAPB
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Mobile Wireless Configuration Guide</i></li> <li>• <i>Cisco IOS Mobile Wireless Command Reference</i></li> </ul>	General Packet Radio Service
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Terminal Services Configuration Guide</i></li> <li>• <i>Cisco IOS Terminal Services Command Reference</i></li> </ul>	ARA LAT NASI Telnet TN3270 XRemote X.28 PAD Protocol Translation
<ul style="list-style-type: none"> <li>• <i>Cisco IOS Configuration Guide Master Index</i></li> <li>• <i>Cisco IOS Command Reference Master Index</i></li> <li>• <i>Cisco IOS Debug Command Reference</i></li> <li>• <i>Cisco IOS Software System Error Messages</i></li> <li>• <i>New Features in 12.2-Based Limited Lifetime Releases</i></li> <li>• <i>New Features in Release 12.2 T</i></li> <li>• Release Notes (Release note and caveat documentation for 12.2-based releases and various platforms)</li> </ul>	

## 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>

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