

CISCO IOS SOFTWARE DEPLOYMENT RELEASE 12.2(15)JA

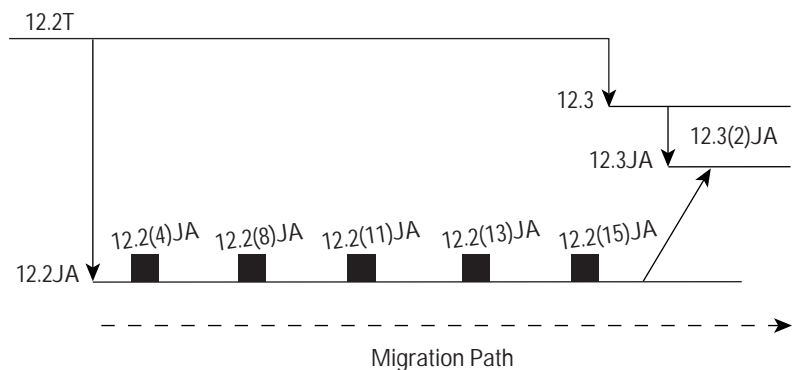
This product bulletin describes the content and delivery information concerning Cisco IOS[®] Software Release 12.2(15)JA, an early deployment release supporting Cisco Aironet[®] 350 Series access points, Cisco Aironet 1100 Series access points, Cisco Aironet 1200 Series access points, the Cisco Aironet 1310 outdoor access point/bridge of the Cisco Aironet 1300 Series and the Cisco Aironet 1410 wireless bridge of the Cisco Aironet 1400 Series. This release contains new features as well as all of the features delivered in Cisco IOS Software Release 12.2(13)JA described in Product Bulletin No. 2347.

OVERVIEW

Cisco IOS Software Release 12.2(15)JA introduces the new the Cisco Aironet 1300 Series outdoor access point/bridge and provides several new features for Cisco Aironet access points and wireless bridges. New features for Cisco Aironet access points include access point scanning-only mode, client tracking, IEEE 802.11d world mode, MAC address local authentication, a Cisco Compatible Extensions information element, and support for Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST). For Cisco Aironet wireless bridges, Wi-Fi Protected Access (WPA) support is now available.

These Cisco IOS Software features are available as a free software upgrade for Cisco Aironet 1200, 1100, and 350 Series access points, the Cisco Aironet 1300 Series outdoor access point/bridge, and the Cisco Aironet 1400 Series wireless bridge. Figure 1 displays the Cisco IOS Software Release 12.2(15)JA release train and recommended migration path.

Figure 1
Cisco IOS Software Release 12.2(15)JA Release Train and Recommended Migration Path



UPDATES TO EXISTING CISCO IOS SOFTWARE FEATURES

Table 1 lists updates to existing features delivered in Cisco IOS Software Release 12.2(13)JA and earlier. These updates are supported under the features listed in this release for the platforms noted with Cisco IOS Software Release 12.2(15)JA and later.

Table 1 Updates to Existing Cisco IOS Software Features

Existing Features	Cisco Aironet 350 Series Access Point	Cisco Aironet 1100 Series Access Point	Cisco Aironet 1200 Series Access Point
Radio Management	IEEE 802.11b	IEEE 802.11b, g	IEEE 802.11a, b, g
Radio Management Aggregation	N/A	IEEE 802.11b, g	IEEE 802.11a, b, g

Features Not Supported in Cisco IOS Software Release 12.2(15)JA for the Cisco Aironet 1300 Series Access Point/Bridge

The Cisco Aironet 1300 Series access point/bridge will support the same Cisco IOS Software access point features as Cisco Aironet 1100 Series access points in Cisco IOS Software Release 12.2(13)JA and earlier releases with the exception of radio management, radio management aggregation, Wireless Domain Services (WDS) and IEEE 802.1X local authentication service. The Cisco Aironet 1300 Series access point/bridge will support the same Cisco IOS Software wireless bridge features as the Cisco Aironet 1400 Series wireless bridge in Cisco IOS Software Release 12.2(13)JA and earlier releases with the exception of IEEE 802.11a.

Table 2 lists the features that were introduced in Cisco IOS Software Release 12.2(13)JA or earlier that are not supported by the Cisco Aironet 1300 Series access point/bridge.

Table 2 Features Not Supported by the Cisco Aironet 1300 Series Access Point/Bridge

Features Not Support by Cisco Aironet 1300 Series Access Point/Bridge
Radio Management
Radio Management Aggregation
Wireless Domain Services (WDS)
IEEE 802.1X Local Authentication Service
IEEE 802.11a Support

New Features in Cisco IOS Software Release 12.2(15)JA

Table 3 lists the new features delivered in Cisco IOS Software Release 12.2(15)JA. These features are supported in this release for the platforms noted, with continued support for the features introduced in Cisco IOS Software Release 12.2(13)JA and earlier releases except as noted above.

Table 3 Cisco IOS Software Release 12.2(15)JA New Features

New Features	Cisco Aironet 350 Series Access Point	Cisco Aironet 1100 Series Access Point	Cisco Aironet 1200 Series Access Point	Cisco Aironet 1300 Series Access Point/ Bridge	Cisco Aironet 1400 Series Wireless Bridge
Access Point Scanning-only Mode	X ^a	X	X		
Client Tracking	X	X	X		
IEEE 802.11d World Mode Support	X	X	X	X	
Cisco Compatible Extensions Information Element	X	X	X	X	
MAC Address Local Authentication	X	X	X		
IEEE 802.1X Support for EAP-FAST	X	X	X	X	
Wi-Fi Protected Access (WPA)	X ^b	X ^c	X ^c	X	X
Work Group Bridge (WGB) Mode				X	
Fast Secure Roaming Non-Root Wireless Bridge				X	

a. A Cisco Aironet 350 Series access point must be connected to a WDS access point to use the access point scanning-only mode feature

b. Available in 12.2.(13)JA and later releases

c. Available in 12.2.(11)JA and later releases

CISCO IOS SOFTWARE RELEASE 12.2(15)JA NEW FEATURES

Access Point Scanning-Only Mode

This Cisco Structured Wireless-Aware Network (SWAN) feature allows the Cisco Aironet access point to be set in a scanning-only mode, where it scans the RF environment for other access points and unassociated 802.11 clients. In this mode, the access point does not transmit beacons, respond to probe requests, or support client device association. This mode allows the Cisco Aironet access point to function as an intrusion detection device to detect rogue (unauthorized) access points and unassociated 802.11 clients.

Client Tracking

This new Wireless Domain Services (WDS) feature expands the radio management information gathered from Cisco Aironet access points to include information on client authentication and roaming events. It expands Cisco SWAN capabilities by providing near-real-time tracking of client associations via the CiscoWorks Wireless LAN Solution Engine (WLSE).

IEEE 802.11d World Mode Support

The 802.11d standard for world mode is supported by Cisco Aironet access points in this release. World mode enables the access point to inform an 802.11d client device which radio setting the device should use to conform to local regulations.

Cisco Compatible Extensions Information Element

This information element allows a Cisco Aironet access point to inform Cisco Compatible Extensions client devices about the Cisco Compatible release version that it supports.

MAC Address Local Authentication

With this new feature, the Cisco Aironet access point's local authenticator can be configured to allow MAC authentication for users on the Cisco Aironet access point. Up to 50 users can be supported with this release.

IEEE 802.1X Support for EAP-FAST

This Cisco Wireless Security Suite feature supports the IEEE 802.1X standard port-based authentication type EAP-FAST. EAP-FAST can also be supported by access points running Cisco IOS Software version 12.2(11)JA or later.

Wi-Fi Protected Access

Wi-Fi Protected Access (WPA) is now supported on Cisco Aironet access points and wireless bridges. WPA is the Wi-Fi Alliance specification for interoperable wireless LAN security. It supports IEEE 802.1X authentication using extensible authentication protocol (EAP) authentication types and temporal key integrity protocol (TKIP) encryption.

Work Group Bridge (WGB) Mode

This feature allows a Cisco Aironet Series wireless bridge or access point to be configured to operate as a work group bridge (WGB) client.

Fast Secure Roaming Non-root Wireless Bridge

This feature offers fast secure layer 2 roaming for a non-root wireless bridge or workgroup bridge to the wired infrastructure via a wireless root bridge or an access point.

ADDITIONAL INFORMATION

Release Notes

For more information about the platforms and features delivered in Cisco IOS Software Release 12.2(15)JA, release notes are available at:

<http://www.cisco.com/en/US/products/hw/wireless/index.html>

Support

Cisco IOS Software Release 12.2(15)JA follows the standard Cisco support policy. For more information, visit:

http://www.cisco.com/en/US/products/products_end-of-life_policy.html

PRODUCT FEATURES AND MODEL NUMBERS

Cisco IOS Software Release 12.2(15)JA feature sets, images, and memory recommendations are listed in Table 4. The products supported by this release are listed in Table 5.

Table 4 Cisco IOS Software Release 12.2(15)JA Feature Sets, Images, and Memory Recommendations

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1400 Series Wireless Bridge	Wireless LAN	S141W7K9-12215JA	c1410-k9w7-tar.122-15.JA	8	16
Cisco Aironet 1300 Series Outdoor Access Point/Bridge	Wireless LAN	S131W7K9-12215JA	c1310-k9w7-tar.122-15.JA	8	32
Cisco Aironet 1200 Series Access Point	Wireless LAN	S12W7K9-12215JA	c1200-k9w7-tar.122-15.JA	8	16

Table 4 Cisco IOS Software Release 12.2(15)JA Feature Sets, Images, and Memory Recommendations (Continued)

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1100 Series Access Point	Wireless LAN	S11W7K9-12215JA	c1100-k9w7-tar.122-15.JA	8	16
Cisco Aironet 350 Series Access Point	Wireless LAN	Not applicable	c350-k9w7-tar.122-15.JA	8	16

Table 5 Products Supported by Cisco IOS Software Release 12.2(15)JA

Platform	Model Number
Cisco Aironet 1400 Series Wireless Bridge	BR1410A
Cisco Aironet 1300 Series Outdoor Access Point/Bridge	AIR-BR1310G
Cisco Aironet 1200 Series Access Point	AP1210, AP1230A, AP1230B, AP1231G
Cisco Aironet 1100 Series Access Point	AP1120B, AP1121G
Cisco Aironet 350 Series Access Point	AP352

DOWNLOAD INFORMATION

Cisco IOS Software Release 12.2(15)JA can be downloaded from the following Cisco.com locations:

<http://www.cisco.com/public/sw-center/sw-wireless.shtml>

<http://www.cisco.com/public/sw-center/sw-ios.shtml>



Corporate Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
Haarlerbergpark
Haarlerbergweg 13-19
1101 CH Amsterdam
The Netherlands
www-europe.cisco.com
Tel: 31 0 20 357 1000
Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
www.cisco.com
Tel: 408 526-7660
Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
168 Robinson Road
#28-01 Capital Tower
Singapore 068912
www.cisco.com
Tel: +65 6317 7777
Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on the Cisco Web site at www.cisco.com/go/offices

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus • Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel • Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal • Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan • Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2004 Cisco Systems, Inc. All rights reserved. Cisco, Cisco Systems, the Cisco Systems logo, Aironet, and Cisco IOS are registered trademarks or 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.
(0402R) 203180_ETMG_JS_04.04