

CISCO IOS SOFTWARE DEPLOYMENT RELEASE 12.3(2)JA

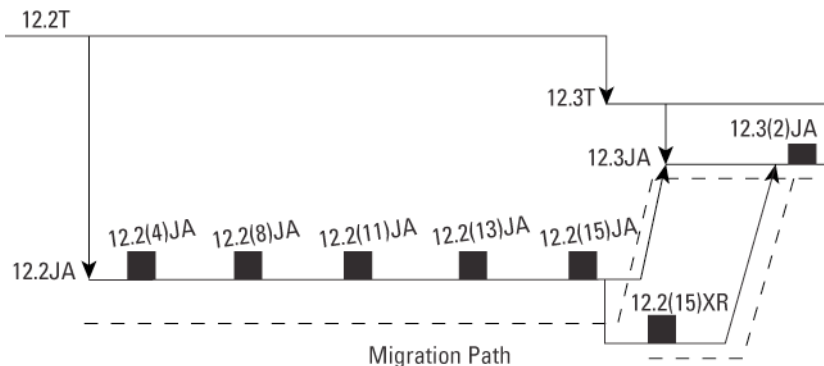
This product bulletin describes the content and delivery information for Cisco IOS Software Release 12.3(2)JA, an early deployment release supporting Cisco Aironet 1410 wireless bridges, Cisco Aironet 1300 Series outdoor access points/bridges, the new Cisco Aironet 1230AG Series access points, Cisco Aironet 1200 Series access points, the new Cisco Aironet 1130AG Series access points, Cisco Aironet 1100 Series access points, and Cisco Aironet 350 Series access points. This release contains new features as well as support for the features delivered in Cisco IOS Software Release 12.2(15)JA, described in Product Bulletin No. 2459, and Cisco IOS Software Release 12.2(15)XR, described in Product Bulletin No. 2547.

OVERVIEW

Cisco IOS® Software Release 12.3(2)JA provides several new features for Cisco® Aironet® 1300 Series outdoor access points/bridges, Cisco Aironet 1200 Series access points, Cisco Aironet 1100 Series access points, Cisco Aironet 350 Series access points, and the Cisco Aironet 1400 Series wireless bridge platform, with support for Cisco Aironet 1410 wireless bridges. This release also introduces support for the new Cisco Aironet 1230AG Series access points and the new Cisco Aironet 1130AG Series access points. New features for these access points and bridges include support for Advanced Encryption Standard-Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (AES-CCMP) used for Wi-Fi Protected Access 2 (WPA2), Secure HTTP (HTTPS) - HTTP with Secure Sockets Layer (SSL) 3.0, IEEE 802.1X local authentication service for Extensible Authentication Protocol- Flexible Authentication via Secure Tunneling (EAP-FAST), Wi-Fi Multimedia (WMM) required elements, VLAN assignment by name, Microsoft Wireless Provisioning Services Information Element (WPS IE) Service Set Identification List (SSIDL), HTTP Web Server v1.1, and IP-Redirect.

This Cisco IOS Software release is available as a free software upgrade for Cisco Aironet 1230AG Series, 1200 Series, 1130AG Series, 1100 Series, and 350 Series access points; Cisco Aironet 1300 Series outdoor access points/bridges; and Cisco Aironet 1400 Series wireless bridges. Figure 1 displays the release train and recommended migration path for Cisco IOS Software Release 12.3(2)JA.

Figure 1. Release Train and Recommended Migration Path for Cisco IOS Software Release 12.3(2)JA



UPDATES TO EXISTING CISCO IOS SOFTWARE FEATURES

Table 1 lists updates to existing features delivered in Cisco IOS Software Release 12.2(15)XR and earlier. These updates are supported for the features and platforms noted, with Cisco IOS Software Release 12.3(2)JA and later.

Table 1. Updates to Existing Cisco IOS Software Features

Existing Features	Cisco Aironet 1100 Series Access Point	Cisco Aironet 1130AG Series Access Point	Cisco Aironet 1230AG Series Access Point
IP-Based Wireless Domain Services (WDS)	X	X	X
Layer 3 Mobility Service via Fast Secure Roaming Tunnels	X	X	X
Work Group Bridge (WGB) Mode	X	–	–

NEW FEATURES IN CISCO IOS SOFTWARE RELEASE 12.3(2)JA

Table 2 lists the new features delivered in Cisco IOS Software Release 12.3(2)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(15)JA, Cisco IOS Software Release 12.2(15)XR and earlier releases.

Table 2. Cisco IOS Software Release 12.3(2)JA New Features

New Features	Cisco Aironet 350 Series Access Point	Cisco Aironet 1100 Series Access Point	Cisco Aironet 1130AG Series Access Point	Cisco Aironet 1200 Series Access Point	Cisco Aironet 1230AG Series Access Point	Cisco Aironet 1300 Series Access Point/Bridge	Cisco Aironet 1400 Series Wireless Bridge
Support for Cisco Aironet IEEE 802.11a Radio Part Numbers AIR-RM21A and AIR-RM22A	–	–	–	X	X ⁽¹⁾	–	–
AES-CCMP	–	X ⁽²⁾	X	X ⁽³⁾	X ⁽⁴⁾	X	–
HTTPS—HTTP with SSL 3.0	X	X	X	X	X	X	X
IEEE 802.1X Local Authentication Service for EAP-FAST ⁽⁵⁾	X	X	X	X	X	X	–
Wi-Fi Multimedia (WMM) Required Elements	X	X	X	X	X	X	–
VLAN Assignment By Name	X	X	X	X	X	X	–
Microsoft WPS IE SSIDL ⁽⁶⁾	X	X	X	X	X	X	–
HTTP Web Server v1.1	X	X	X	X	X	X	X
IP-Redirect	–	X	X	X	X	X	–

⁽¹⁾AIR-RM22A is included with the Cisco Aironet 1230AG Series access point

⁽²⁾IEEE 802.11g radio only

⁽³⁾IEEE 802.11g radio and IEEE 802.11a radio with the part numbers AIR-RM21A or AIR-RM22A

⁽⁴⁾IEEE 802.11g radio and IEEE 802.11a radio with the part numbers AIR-RM21A or AIR-RM22A

⁽⁵⁾Up to 50 clients are supported with this software release

⁽⁶⁾The ability to read SSIDL is planned for a future Microsoft Service Pack Windows XP release

CISCO IOS SOFTWARE RELEASE 12.3(2)JA NEW FEATURES

Support for Cisco Aironet 1230AG and 1130AG Series Access Points

Support for the Cisco Aironet 1230AG Series and Cisco Aironet 1130AG Series access points, is now available. These access points support all access point features introduced in Cisco IOS Software Release 12.3(2)JA, as well as all Cisco IOS Software access point features supported by Cisco Aironet 1100 Series and 1200 Series access points in Cisco IOS Software Release 12.2(15)JA, Cisco IOS Software Release 12.2(15)XR and earlier releases, unless otherwise noted.

Support for Cisco Aironet IEEE 802.11a Radio Part Numbers AIR-RM21A and AIR-RM22A

Support for IEEE 802.11a radio part numbers AIR-RM21A and AIR-RM22A for the Cisco Aironet 1230AG Series and 1200 Series access points is now available. These new IEEE 802.11a radios will support all access point features introduced in Cisco IOS Software Release 12.3(2)JA, as well as all Cisco IOS Software access point features supported by Cisco Aironet 1200 Series access points in Cisco IOS Software Release 12.2(15)JA, Cisco IOS Software Release 12.2(15)XR and earlier releases.

AES-CCMP

This feature supports Advanced Encryption Standard–Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (AES-CCMP). AES-CCMP is required for Wi-Fi Protected Access 2 (WPA2) and IEEE 802.11i wireless LAN security.

HTTPS-HTTP with SSL 3.0

This feature supports a Secure Sockets Layer (SSL)/Secure Hypertext Transfer Protocol (HTTPS) method of managing Cisco Aironet access points via a Web browser using HTTP.

IEEE 802.1X Local Authentication Service for EAP-FAST

This feature expands wireless domain services (WDS) IEEE 802.1X local authentication to include support for Extensible Authentication Protocol–Flexible Authentication via Secure Tunneling (EAP-FAST). IEEE 802.1X local authentication was introduced in Cisco IOS Software Release 12.2(11)JA.

Wi-Fi Multimedia (WMM) Required Elements

This feature supports the required elements of Wi-Fi Multimedia (WMM), which is designed to improve the user experience for audio, video, and voice applications over a Wi-Fi wireless connection. WMM is a subset of the IEEE 802.11e quality of service (QoS) draft standard, supporting QoS-prioritized media access via the Enhanced Distributed Channel Access (EDCA) method. Optional elements of the WMM specification, including Call Admission Control using Traffic Specifications (TSPEC), are not supported in this release.

VLAN Assignment By Name

This feature allows the Remote Authentication Dial-In User Service (RADIUS) server to assign a client to a virtual LAN (VLAN) identified by its VLAN “name”. Prior to Cisco IOS Software Release 12.3(2)JA, the RADIUS server identified the VLAN by ID. This feature is important for deployments where VLAN IDs are not used consistently throughout the network.

Microsoft WPS IE SSIDL

This feature allows a Cisco Aironet access point to broadcast a list of configured SSIDs such as SSID Lists (SSIDL) in the Microsoft Wireless Provisioning Services Information Element (WPS IE). A client with the ability to read the SSIDL will be able to alert the user to the availability of the SSIDs. This feature provides a bandwidth-efficient, software-upgradable alternative to multiple broadcast SSIDs (MB/SSIDs).

HTTP Web Server v1.1

This feature provides a consistent interface for users and applications by implementing the HTTP 1.1 standard (see RFC 2616). Prior to this release, Cisco software supported only a partial implementation of HTTP 1.0. The integrated HTTP Web Server API supports server application interfaces. When combined with the HTTPS and HTTP 1.1 client features, this feature provides a complete, secure solution for HTTP services to and from Cisco devices.

IP-Redirect

This feature provides the capability to redirect traffic intended from a particular IP destination address to another IP destination address as specified by the administrator.

Release Notes

For more information about the platforms and features delivered in Cisco IOS Software Release 12.3(2)JA, release notes are available at:

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

Support

Cisco IOS Software Release 12.3(2)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 12.3(2)JA feature sets, images, and memory recommendations are listed in Table 3. The products supported by this release are listed in Table 4.

Table 3. Cisco IOS Software Release 12.3(2)JA Feature Sets, Images, and Memory Recommendations

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1400 Series wireless bridge	Wireless LAN	S141W7K9-12302JA	C1410-k9w7-tar.123-2.JA	8 MB	16 MB
Cisco Aironet 1300 Series outdoor access point/bridge	Wireless LAN	S131W7K9-12302JA	c1310-k9w7-tar.123-2.JA	8 MB	32 MB
Cisco Aironet 1230AG Series access point	Wireless LAN	S12W7K9-12302JA	c1200-k9w7-tar.123-2.JA	8 MB	16 MB

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1200 Series access point	Wireless LAN	S12W7K9-12302JA	c1200-k9w7-tar.123-2.JA	8 MB	16 MB
Cisco Aironet 1130AG Series access point	Wireless LAN	S113W7K9-12302JA	c1130-k9w7-tar.123-2.JA	16 MB	32 MB
Cisco Aironet 1100 Series access point	Wireless LAN	S11W7K9-12302JA	c1100-k9w7-tar.123-2.JA	8 MB	16 MB
Cisco Aironet 350 Series access point	Wireless LAN	Not applicable	c350-k9w7-tar.123-2.JA	8 MB	16 MB

Table 4. Products Supported By Cisco IOS Software Release 12.3(2)JA

Platform	Model Number
Cisco Aironet 1400 Series wireless bridge	BR1410A
Cisco Aironet 1300 Series outdoor access point/bridge	BR1310G
Cisco Aironet 1230AG Series access point	AP1232AG
Cisco Aironet 1200 Series access point	AP1210, AP1230A, AP1230B, AP1231G
Cisco Aironet 1130AG Series access point	AP1131AG
Cisco Aironet 1100 Series access point	AP1120B, AP1121G
Cisco Aironet 350 Series access point	AP352

DOWNLOAD INFORMATION

Cisco IOS Software Release 12.3(2)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>

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