

# CISCO IOS SOFTWARE DEPLOYMENT RELEASE 12.3(4)JA

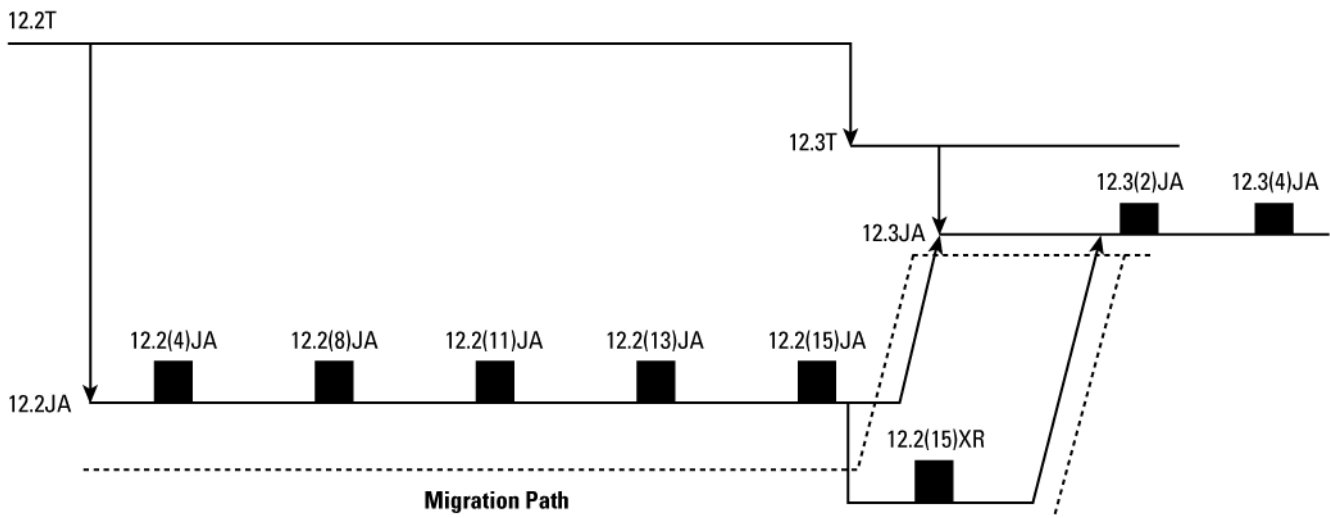
This product bulletin describes the content and delivery information for Cisco IOS Software Release 12.3(4)JA, an early deployment release supporting Cisco Aironet 1410 wireless bridges, Cisco Aironet 1300 Series outdoor access points/bridges, Cisco Aironet 1230AG Series access points, Cisco Aironet 1200 Series access points, Cisco Aironet 1130AG access points, Cisco Aironet 1100 Series access points and Cisco Aironet 350 Series access point. This release contains new features, as well as support for the features delivered in Cisco IOS Software Release 12.3(2)JA, described in Product Bulletin No. 2459.

## OVERVIEW

Cisco IOS® Software Release 12.3(4)JA provides several new features for Cisco® Aironet® 1400 Series wireless bridges, Cisco Aironet 1300 Series outdoor access points/bridges, Cisco Aironet 1230AG Series access points, Cisco Aironet 1200 Series access points, Cisco Aironet 1130AG Series access points, and Cisco Aironet 1100 Series access points. New features for these access points and bridges include support for multiple Basic Service Set Identification (BSSIDs) per access point, Wi-Fi 802.11h Dynamic Frequency Selection Support (DFS), Excess Management Frame Detection, Authentication Attack Detection, Frame Capture Mode for access points, location-based services [LBS] on regular access points, Simple Network Management Protocol version 3 (SNMPv3), Workgroup Bridge (WGB) Mode on Cisco Aironet 1200 Series access points, and Cisco Aironet 1310 Series wireless bridges as repeater access points and as non-root bridges with clients.

This Cisco IOS Software release is available as a free software upgrade for Cisco Aironet 1200 Series, 1100 Series, and 350 Series access points and Cisco Aironet 1300 Series outdoor access points/bridges. Figure 1 displays the release train and recommended migration path for Cisco IOS Software Release 12.3(4)JA. Only bug fixes are provided for AP350 in this release.

**Figure 1.** Release Train and Recommended Migration Path for Cisco IOS Software Release 12.3(4)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 releases. These updates are supported for the features and platforms noted, with Cisco IOS Software Release 12.3(4)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 1200 Series Access Point	Cisco Aironet 1230AG Series Access Point	Cisco Aironet 1300 Series Access Point /Bridge	Cisco Aironet 1400 Series Wireless Bridge
<b>IP-based Wireless Domain Services (WDS)</b>	X	X	X	X	X1	---
<b>Layer 3 Mobility Service via Fast Secure Roaming Tunnels (FSRT)</b>	X	X	X	X	X1	---
<b>WGB Mode</b>	X	X1	X1	X1	X	---

X---Already supported services

X1---New features update supported with this release of 12.3(4)JA

In addition to these features, we are adding the following functionality:

### Cisco Aironet 1310 Series Wireless Bridges as Repeater Access Points

Allows Cisco Aironet 1310 Series outdoor access points/bridges to be configured to operate as repeater-mode access points.

### Cisco Aironet 1310 Series Wireless Bridges as Non-Root Bridges with Clients

Allows Cisco Aironet 1310 Series outdoor access points/bridges to be configured to operate as non-root bridges with clients.

## NEW FEATURES IN CISCO IOS SOFTWARE RELEASE 12.3(4)JA

Table 2 lists the new features delivered in Cisco IOS Software Release 12.3(4)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) XR, Cisco IOS Software Release 12.3(2)JA, and earlier releases.

**Table 2.** Cisco IOS Software Release 12.3(4)JA New Features

New Features	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 Multiple BSSIDs per Access Point	X	X	X	X	X	---
Support for Wi-Fi 802.11h DFS	---	X	X	X	---	---
Wireless IDS---Excess Management Frame Detection	X	X	X	X	X	---
Wireless IDS---Authentication Attack Detection	X	X	X	X	X	---
Wireless IDS---Active Termination for Managed Clients	X	X	X	X	X	---
Frame Monitor Mode for Access Points	X	X	X	X	X	---
Location-Based Services on Regular Access Points	X	X	X	X	X	---
SNMPv3	X	X	X	X	X	X

**CISCO IOS SOFTWARE RELEASE 12.3(4)JA FEATURE DESCRIPTIONS**

**Support for Multiple BSSIDs per Access Point**

Permits a single access point to appear to the wireless LAN as multiple virtual access points. It does this by assigning an access point with multiple BSSIDs or MAC addresses.

**Support for Wi-Fi 802.11h DFS**

Allows Cisco access points equipped with 802.11a radio modules to detect radar signals such as military and weather sources and switch channels on the access points.

**Wireless IDS---Excess Management Frame Detection**

Gives scan-only access points the ability to detect when “normal” wireless LAN management and control frames have exceeded a configurable threshold.

**Wireless IDS---Authentication Attack Detection**

Requires Cisco access points to detect and report on excessive attempted or failed authentication attempts (authentication failure detection and excess Extensible Authentication Protocol over LAN [EAPoL] authentication).

### Wireless IDS---Active termination for Managed Clients

This feature, when paired with a 3rd party IDS server and WLSE, allows an AP to disassociate any managed clients associated to unmanaged APs.

### Frame Monitor Mode for Access Points

Requires a scan-only access point to forward all seen 802.11 frames to a protocol analysis station for network troubleshooting from remote sites via partner applications and/or partner intrusion detection companies.

### Location-Based Services on Regular Access Points

Allows a Cisco access point to detect frames from LBS clients and send them to a preconfigured IP destination (third-party LBS server).

### WGB Mode on Cisco Aironet 1200 Series Access Points (1-Radio)

Allows Cisco Aironet 1200 Series access points to support WGB Mode on either 802.11b/g or 802.11a radios.

### SNMPv3

This feature enables Simple Network Management Protocol (SNMPv3) support on Cisco access points to provide additional level of security for our customers.

### Release Notes

For more information about the platforms and features delivered in Cisco IOS Software Release 12.3(4)JA, release notes are available at:

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

### Support

Cisco IOS Software Release 12.3(4)JA follows the standard Cisco support policy. For more information, visit:

[http://www.cisco.com/en/US/products/products\\_end-of-life\\_policy.html](http://www.cisco.com/en/US/products/products_end-of-life_policy.html)

## PRODUCT FEATURES AND MODEL NUMBERS

Cisco IOS Software Release 12.3(4)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(4)JA Feature Sets, Images, and Memory Recommendations

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1400 Series Wireless Bridges	Wireless LAN	S141W7K9-12304JA	C1410-k9w7-tar.123-4.JA	8 MB	16 MB
Cisco Aironet 1300 Series Outdoor Access Points/Bridges	Wireless LAN	S131W7K9-12304JA	c1310-k9w7-tar.123-4.JA	8 MB	32 MB
Cisco Aironet 1230AG Series Access Points	Wireless LAN	S12W7K9-12304JA	c1200-k9w7-tar.123-4.JA	8 MB	16 MB
Cisco Aironet 1200 Series Access Points	Wireless LAN	S12W7K9-12304JA	c1200-k9w7-tar.123-4.JA	8 MB	16 MB

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
<b>Cisco Aironet 1130AG Series Access Points</b>	Wireless LAN	S113W7K9-12304JA	c1130-k9w7-tar.123-4.JA	16 MB	32 MB
<b>Cisco Aironet 1100 Series Access Points</b>	Wireless LAN	S11W7K9-12304JA	c1100-k9w7-tar.123-4.JA	8 MB	16 MB

**Table 4.** Products Supported by Cisco IOS Software Release 12.3(4)JA

Platform	Model Number
<b>Cisco Aironet 1400 Series Wireless Bridges</b>	BR1410A
<b>Cisco Aironet 1300 Series Outdoor Access Points/Bridges</b>	BR1310G
<b>Cisco Aironet 1230AG Series Access Points</b>	AP1232AG
<b>Cisco Aironet 1200 Series Access Points</b>	AP1210, AP1230A, AP1230B, AP1231G
<b>Cisco Aironet 1130AG Series Access Points</b>	AP1131AG
<b>Cisco Aironet 1100 Series Access Points</b>	AP1120B, AP1121G
<b>Cisco Aironet 350 Series Access Points</b>	AP350

#### DOWNLOAD INFORMATION

Cisco IOS Software Release 12.3(4)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

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