



## Cisco IOS Software Release 12.3(11)JX

**Warning: All Cisco Aironet Access Points receiving Cisco IOS Software Release 12.3(11)JX will only function in conjunction with a Cisco Wireless LAN Controller. They will no longer be able to function as Cisco Aironet Autonomous Access Points.**

This product bulletin describes the content and delivery information for Cisco IOS® Software Release 12.3(11)JX. This is a Cisco® Lightweight Access Point Protocol (LWAPP) upgrade and recovery support software image supporting Cisco Aironet® 1100, Aironet 1130, Aironet 1200, Aironet 1230 AG, Aironet 1240 AG, and Aironet 1300 Series Access Points.

### OVERVIEW

Cisco IOS Software Release 12.3(11)JX provides the capability for selected Cisco Aironet autonomous access points to become Cisco Aironet lightweight access points. Access points running Cisco IOS Software Release 12.3(11)JX partially implement LWAPP, allowing them to communicate with a Cisco Wireless LAN Controller to receive the full LWAPP software image from the controller. All Cisco Aironet access points receiving Cisco IOS Software Release 12.3(11)JX will only function in conjunction with a Cisco Wireless LAN Controller. They will no longer be able to function as Cisco Aironet autonomous access points.

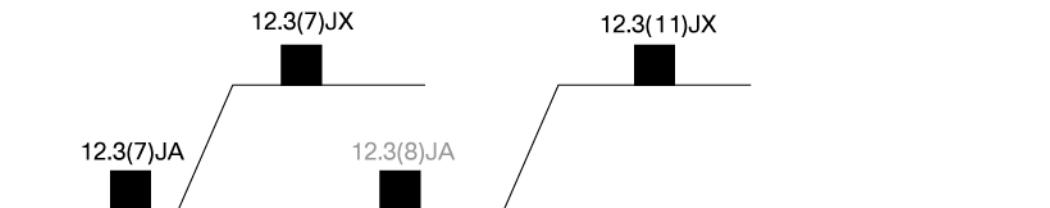
This Cisco IOS Software release is available as a free software upgrade for Cisco Aironet 1100 Series Access Points that contain 802.11g radios (AIR-AP1121G-x-K9) and Cisco Aironet 1300 Series Access Point/Bridges (AIR-BR1310G-x-K9 AIR-BR1310G-x-K9-R).

**Note:** The Cisco Aironet 1300 Series supports LWAPP when operating as an access point—bridge mode does not support the LWAPP protocol. The Cisco Aironet 1130AG, Aironet 1230AG, and certain versions of the Cisco Aironet 1200 Series received LWAPP Upgrade and Recovery Support in Cisco IOS Software Release 12.3(7)JX. For more information, visit:

[http://www.cisco.com/en/US/prod/collateral/wireless/ps5678/ps430/prod\\_bulletin0900aecd8031b58a.html](http://www.cisco.com/en/US/prod/collateral/wireless/ps5678/ps430/prod_bulletin0900aecd8031b58a.html)

Figure 1 displays the release train and recommended migration path for Cisco IOS Software Release 12.3(11)JX.

**Figure 1.** Release Train and Recommended Migration Path for Cisco IOS Software Release 12.3(11)JX



## NEW FEATURES IN CISCO IOS SOFTWARE RELEASE 12.3(11)JX

Table 1 lists the new features delivered in Cisco IOS Software Release 12.3(11)JX. The features are supported in this release for the platforms noted.

**Table 1.** New Features in Cisco IOS Software Release 12.3(11)JX

New Features	Cisco Aironet 1100 Series	Cisco Aironet 1130 AG Series <sup>1</sup>	Cisco Aironet 1200 Series <sup>1</sup>	Cisco Aironet 1230 AG Series <sup>1</sup>	Cisco Aironet 1240 AG Series <sup>1</sup>	Cisco Aironet 1300 Series
LWAPP Upgrade and Recovery Support	X	–	–	–	–	X
Pre-stage Configuration for LWAPP Access Points	X	X	X	X	X	X

1. LWAPP upgrade and recovery support was first provided for these platforms in Cisco IOS Release 12.3(7)JX. Cisco IOS Release 12.3(11)JX also provides upgrade and recovery support for these platforms.

### LWAPP Upgrade and Recovery Support

This feature allows a Cisco autonomous access point to communicate with a Cisco Wireless LAN Controller in order to receive a full LWAPP image. Access points shipping with LWAPP or selected autonomous access points upgraded from autonomous to lightweight mode use the LWAPP Upgrade and Recovery Support feature to receive their full LWAPP image from the controller. The LWAPP Upgrade and Recovery Support feature is also used as a recovery image if the full LWAPP image becomes corrupted. Access points using this feature have limited functionality and their radios are disabled until the Cisco Wireless LAN Controller sends them the full LWAPP image.

### Pre-stage Configuration for LWAPP Access Points

This feature simplifies the deployment of LWAPP access points in remote locations by adding a new set of CLI's to the Recovery IOS image. The static IP address, Netmask, Default gateway, and Primary Controller IP address may now be configured on the access point. Configuring the Primary Controller IP address will help the access point discover and register a specific Controller over the WAN links. In a deployment scenario where a DHCP server is not available in remote locations the CLIs may be used to configure the static IP address and the initial LWAPP controller information.

### Special Notes

The following are special notes about Cisco IOS Software Release 12.3(11)JX upgrade and recovery software image:

- Autonomous access points that have already been upgraded to lightweight mode may update to the 12.3(11)JX image using standard procedure.
- Use the “Autonomous To Lightweight Mode” upgrade tool to load this image onto Cisco Aironet autonomous access points currently running Cisco IOS Software Release 12.3(11)JA or later. Once the image has been updated, the access point will use LWAPP to communicate with a Cisco Wireless LAN Controller.
- This release only contains a partial LWAPP image. The full LWAPP software image must be downloaded from the Cisco Wireless LAN Controller to the access point after it has been converted in order for it to operate as a Cisco Aironet lightweight access point. A connection between the access point and Cisco Wireless LAN Controller is required to download the full LWAPP image.
- This image is also shipping with orderable Cisco Aironet lightweight access points.

## Release Notes

For more information about the platforms and features delivered in Cisco IOS Software Release 12.3(11)JX, release notes are available at: <http://www.cisco.com/en/US/products/hw/wireless/index.html>

## Support

Cisco IOS Software Release 12.3(11)JX 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

Table 2 lists Cisco IOS Software Release 12.3(11)JX feature sets, images, and memory recommendations.

**Table 2.** Cisco IOS Software Release 12.3(11)JX Feature Sets, Images, and Memory Recommendations

Platform	Software Feature Set	Product Code	Image	Flash	DRAM
Cisco Aironet 1100 Series Access Point	Wireless LAN	S11RK9W-12311JX	c1100-rcvk9w8-tar	8 MB	16 MB
Cisco Aironet 1130AG Series Access Point	Wireless LAN	S113RK9W-12311JX	c1130-rcvk9w8-tar	16 MB	32 MB
Cisco Aironet 1200 Series Access Point	Wireless LAN	S12RK9W-12311JX	C1200-rcvk9w8-tar	8 MB	16 MB
Cisco Aironet 1230 AG Series Access Point	Wireless LAN	S12RK9W-12311JX	C1200-rcvk9w8-tar	8 MB	16 MB
Cisco Aironet 1240 AG Series Access Point	Wireless LAN	S124RK9W-12311JX	c1240-rcvk9w8-tar	16 MB	32 MB
Cisco Aironet 1300 Series Access Point/Bridge	Wireless LAN	S131RK9W-12311JX	c1310-rcvk9w8-tar	16 MB	32 MB

Table 3 lists the products supported by this release.

**Table 3.** Products Supported by Cisco IOS Software Release 12.3(11)JX

Platform	Model Number
Cisco Aironet 1100 Series Access Point	AP1121G
Cisco Aironet 1130 AG Series Access Points	AP1131AG
Cisco Aironet 1200 Series Access Points	AP1210, AP1230A, AP1230B, AP1231G
Cisco Aironet 1230 AG Series Access Point	AP1232AG
Cisco Aironet 1240 AG Series Access Point	AP1242AG
Cisco Aironet 1300 Series Access Point/Bridge	BR1310G

## DOWNLOAD INFORMATION

Cisco IOS Software Release 12.3(11)JX 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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