

# Release Notes for Cisco Wireless Controllers and Lightweight Access Points for Cisco Wireless Release 8.6.101.0

---

**First Published:** 2017-12-14

## Overview

This release notes document describes what is new or changed in this release, instructions to upgrade to this release, and open and resolved caveats for this release. Unless otherwise noted, in this document, Cisco Wireless Controllers are referred to as *Cisco WLCs*, and Cisco lightweight access points are referred to as *access points* or *Cisco APs*.

For more information about other documentation on Cisco WLCs and related products, see the [Related Documentation](#), on page 36 section.

## Supported Cisco Wireless Controller Platforms

The following Cisco Wireless Controller platforms are supported in this release:

- Cisco 3504 Wireless Controller
- Cisco 5520 Wireless Controller
- Cisco 8540 Wireless Controller
- Cisco Virtual Wireless Controller (vWLC) (VMware vSphere Hypervisor (ESXi) Version 5.x and 6.x and KVM)



---

**Note** Kernel-based virtual machine (KVM) is supported in Cisco Wireless Release 8.2 and later releases. After KVM is deployed, we recommend that you do not downgrade to a Cisco Wireless release that is earlier than Release 8.2.

---

- Cisco Wireless Controllers for High Availability for Cisco 3504 WLC, Cisco 5520 WLC, and Cisco 8540 WLC.
- Cisco Mobility Express Solution

## Supported Cisco Access Point Platforms

The following Cisco AP platforms are supported in this release:

- Cisco Aironet 700 Series Access Points
- Cisco Aironet 700W Series Access Points
- Cisco AP803 Integrated Access Point
- Cisco Aironet 1700 Series Access Points
- Cisco Aironet 1800 Series Access Points
- Cisco Aironet 1810 Series OfficeExtend Access Points
- Cisco Aironet 1810W Series Access Points
- Cisco Aironet 1815 Series Access Points
- Cisco Aironet 1830 Series Access Points
- Cisco Aironet 1850 Series Access Points
- Cisco Aironet 2700 Series Access Points
- Cisco Aironet 2800 Series Access Points
- Cisco Aironet 3700 Series Access Points
- Cisco Aironet 3800 Series Access Points
- Cisco ASA 5506W-AP702
- Cisco Aironet 1530 Series Access Points
- Cisco Aironet 1540 Series Access Points
- Cisco Aironet 1560 Series Access Points
- Cisco Aironet 1570 Series Access Points
- Cisco Industrial Wireless 3700 Series Access Points

**Note**

Cisco AP803 is an integrated access point module on the Cisco 800 Series Integrated Services Routers (ISRs). For more information about the stock-keeping units (SKUs) for the AP803s Cisco ISRs, see:

<http://www.cisco.com/c/en/us/products/routers/800-series-routers/brochure-listing.html>.

For information about Cisco Wireless software releases that support specific Cisco access point modules, see the "[Software Release Support for Specific Access Point Modules](#)" section in the *Cisco Wireless Solutions Software Compatibility Matrix* document.

## What's New in Release 8.6.101.0

This section provides a brief introduction to the new features and enhancements introduced in this release.

**Note**

From this release onwards, the following Cisco WLCs and APs are not supported:

- Cisco WLCs not supported:
  - Cisco 2504 Wireless Controller
  - Cisco 5508 Wireless Controller
  - Cisco Flex 7510 Wireless Controller
  - Cisco 8510 Wireless Controller
  - Cisco WiSM2
- Cisco Aironet APs not supported:
  - Cisco Aironet 1600 Series AP
  - Cisco Aironet 2600 Series AP
  - Cisco Aironet 3500 Series AP
  - Cisco 3600 Series AP
  - AP802 Integrated AP
  - Cisco Aironet 1550 Series AP

## Cisco Wave 2 AP Features

- **AP 802.1X supplicant feature supported in Cisco Wave 2 APs**—In the 802.1X authentication scenario between an AP and a Cisco switch, the AP acts as an 802.1X supplicant and is authenticated by the switch using Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) with anonymous Protected Access Credentials (PAC) provisioning. From this release, this feature is available in Cisco Wave 2 APs too.

For more information, see the "[AP 802.1X Supplicant](#)" section in the *Cisco Wireless Controller Configuration Guide*.

For more information about IEEE 802.1X port-based authentication, see the "[Configuring IEEE 802.1X Port-Based Authentication](#)" chapter in the *802.1X Authentication Services Configuration Guide, Cisco IOS Release 15E*.

- **Upgrade Cisco AP and WLC software using Rolling AP Upgrade**—In Cisco Prime Infrastructure 3.3, you can upgrade Cisco AP and WLC software using the Rolling AP Upgrade feature. To prevent APs from rebooting simultaneously, you can instead add APs to upgrade groups. The AP upgrade groups reboot sequentially in the order of your preference.

For more information, see the "[Upgrade Controller Software using Rolling AP Upgrade](#)" section in the *Cisco Prime Infrastructure 3.3 User Guide*.

- **Spectrum Intelligence on Cisco Aironet 18x0 and 1540 Series APs**—In this release, Spectrum Intelligence is supported in Cisco Aironet 18x0 and 1540 Series APs.

For more information, see the ["Configuring Spectrum Intelligence"](#) section in the *Cisco Wireless Controller Configuration Guide*.

- **CMX FastLocate on Cisco Aironet 2800 and 3800 Series APs**—In this release, CMX FastLocate is supported in Cisco Aironet 2800 and 3800 Series APs. For more information about CMX FastLocate, see the [CMX FastLocate Deployment Guide](#).

## Custom NAS-ID for RADIUS Accounting Using Downloadable RADIUS AVP

Prior to this release, the NAS-ID field contained the configured NAS-ID or system name if they are not set on WLAN for inclusion in RADIUS accounting messages. In this release, the NAS-ID field is enhanced so that you can configure some key parameters such as the AP name and AP IP address for the RADIUS accounting messages.

In the Cisco WLC GUI, choose **Security > AAA > RADIUS > Downloaded AVP > Acct AVP** to view the downloaded new RADIUS attribute.

This enhancement has the following advantages:

- Flexibility per WLAN to choose NAS ID field subtypes
- Easy to configure, store, upload, and download
- Download when a new WLAN is created; Cisco WLC reboot is not required
- RADIUS AVP file in the Cisco WLC can be uploaded and is persistent across reboot

For more information, see the ["Custom NAS-ID for RADIUS Accounting Using Downloadable RADIUS AVP"](#) section in the *Cisco Wireless Controller Configuration Guide*.

## Multisession ID Support

Prior to this release, audit-session-id was shared across mobility peers along with pairwise master key (PMK). Whenever PMK cache is not created, for example for client security such as open authentication or web authentication, the audit-session-id is not shared. In central web authentication (CWA), the AAA server depends on the audit-session-id to identify the authenticated clients. If Cisco WLC uses a new audit-session-id for authentication, the AAA server forces the client for reauthentication. In this release, a multisession ID is introduced to be used in the RADIUS server, to support intercontroller client roaming in case of open + MAC filtering with CWA.

For more information, see the ["Multisession ID"](#) section in the *Cisco Wireless Controller Configuration Guide*.

## Minimum Interval Setting for Volume Metering

Prior to this release, the minimum RADIUS accounting interval that you could configure was 180 seconds. In this release, the minimum interval that you can configure is 60 seconds. Cisco WLC honors the Acct-Interim-Interval AVP from RADIUS and sends the accounting interim update at the configured interim interval.

For more information, see the ["Timers"](#) chapter in the *Cisco Wireless Controller Configuration Guide*.

## Securing Network Protocols

- **Securing the password fields**—The maximum number of characters that you can use for the password fields of the following is now set to 127:
  - Administrator user
  - Local network user
  - Local management user
  - RADIUS (authentication, accounting, and DNS) shared secret
  - TACACS+ (authentication, accounting, authorization, and DNS) shared secret
  - IPSec shared secret
  - LDAP bind
  - Local EAP
  - SXP

**Note**

If you want to downgrade from Release 8.6 to Release 8.5 or an earlier release, ensure that you have a management user account password that is less than or equal to 24 characters to be compatible with the earlier releases. Else, during the downgrade and before you can reboot the Cisco WLC, you will be prompted with the following message:

```
"Warning!!! Please Configure Mgmt user compatible with older release"
```

- **NTP Version 4**—NTP Version 4 is supported in this release. NTP Version 4 supports both IPv4 and IPv6 servers. For more information, see the "[Network Time Protocol Setup](#)" chapter in the *Cisco Wireless Controller Configuration Guide*.
- **SSH vulnerability addressed**—Prior to this release, connections were allowed without requiring a username and password. After a connection is set up, a Telnet connection to the local host is initiated. In this release, this vulnerability is addressed, wherein a username and a password are required to allow a connection.

## EoGRE Enhancements

- **EoGRE deployment with multiple TGW**—Prior to this release, Cisco WLC used to send keepalive pings to all the tunnel gateways (TGWs) configured on Cisco WLC. In this release, keepalive pings are sent only to those TGWs that are mapped to the WLANs that are in enabled state.  
  
When a WLAN is disabled or deleted in Cisco WLC, periodic keepalive pings are stopped to the TGW that is mapped to the WLAN.
- **DHCP Option 82 for EoGRE Tunnel in Cisco Wave 2 APs**—In this release, DHCP Option 82 for EoGRE Tunnel is supported in Cisco Wave 2 APs.

## Diagnostic Support Bundle

Some commonly collected diagnostic information of various types can be made available in a single bundle that you can upload from Cisco WLC. The diagnostic information that can you can include in the bundle are core files, crash files, **show run-config** and **config** commands, msglog, and traplog.

For more information, see the "[Uploading Diagnostic Support Bundle](#)" section in the *Cisco Wireless Controller Configuration Guide*.

## Mesh Leaf Node Support on IR829 AP803 and IW3700 Series APs

Support is added to IR829 AP803 and IW3700 Series APs to configure mesh APs with lower performance to work only as a leaf node, to prevent the wireless backhaul performance from being downgraded.

For more information, see the "[Configuring Mesh Leaf Node](#)" section in the *Cisco Wireless Controller Configuration Guide*.

## Software Release Types and Recommendations

**Table 1: Release Types**

Release Type	Description	Benefit
Maintenance Deployment (MD)	Software releases that provide bug-fix support and ongoing software maintenance. These releases are categorized as Maintenance Deployment (MD).  These are long-living releases with ongoing software maintenance.	Provides you with a software release that offers stability and long support duration with periodic maintenance releases (MRs).
Early Deployment (ED)	Software releases that provide new features and new hardware platform support in addition to bug fixes. These releases are categorized as Early Deployment (ED).  These are short-lived releases.	Allows you to deploy the latest features and new hardware platforms or modules.

For detailed release recommendations, see the *Guidelines for Cisco Wireless Software Release Migration Bulletin* at:

<http://www.cisco.com/c/en/us/products/collateral/wireless/8500-series-wireless-controllers/bulletin-c25-730741.html>

# Upgrading Cisco WLC Software Release

This section describes the guidelines and limitations that you need to be aware of when you are upgrading the Cisco WLC software and the procedure to upgrade to this release.

## Guidelines and Limitations

- In Release 8.6, FlexConnect local switching ARP cache is enabled by default. Therefore, if you upgrade to Release 8.6 from an earlier release, FlexConnect local switching ARP cache, if disabled, is enabled automatically.

If you downgrade from Release 8.6 to an earlier release, FlexConnect local switching ARP cache is disabled. If required, you must manually enable the feature on the corresponding earlier release.

- In Release 8.6, the maximum number of characters for a management user account password is changed to 127 characters. If you want to downgrade from Release 8.6 to Release 8.5 or an earlier release, ensure that your management user account password is less than or equal to 24 characters to be compatible with the earlier releases. Else, during the downgrade, before you can reboot Cisco WLC, you will be prompted with the following message:

```
"Warning!!! Please Configure Mgmt user compatible with older release"
```

- In Release 8.6 and later releases, legacy clients that require RC4 or 3DES encryption types are not supported in Local EAP authentication.
- If you are using Release 8.4 and want to upgrade to a later release, it is necessary that you upgrade to Release 8.5.105.0 and then move to a later release.



---

**Note** This restriction is applicable only to Release 8.4 and not any other release.

---

- The filenames of Cisco Aironet 1700, 2700, 3700, and IW3702 AP software images have been changed from ap3g2-x to c3700-x format. Therefore, if you are upgrading to Release 8.5 or a later release from Release 8.3 or an earlier release, these APs will download the image twice and reboot twice.
- The AAA database size is increased from 2048 entries to 12000 entries for these Cisco WLCs: Cisco 5520 and 8540. Therefore, if you downgrade from Release 8.6 to an earlier release that does not include this enhancement, you might lose most of the AAA database configuration, including management user information. To retain at least 2048 entries, including management user information, we recommend that you follow these downgrade instructions and back up the configuration file before proceeding with the downgrade:
  - 1 From Release 8.6, downgrade to one of the following releases, which support 2048 database size and include the enhancement.
    - Release 8.5.105.0 or a later 8.5 release
    - Release 8.4
    - Release 8.3.102.0 or a later 8.3 release
    - Release 8.2.130.0 or a later 8.2 release
    - Release 8.0.140.0 or a later 8.0 release

## 2 Downgrade to a release of your choice.

- This release supports additional configuration options for 802.11r FT enable and disable. The additional configuration option is not valid for releases earlier than Release 8.4. If you downgrade from Release 8.6 to Release 8.2 or an earlier release, the additional configuration option is invalidated and defaulted to FT disable. When you reboot Cisco WLC with the downgraded image, invalid configurations are printed on the console. We recommend that you ignore this because there is no functional impact, and the configuration defaults to FT disable.
- If you downgrade from Release 8.6 to a 7.x release, the trap configuration is lost and must be reconfigured.
- If you have an IPv6-only network and are upgrading to Release 8.4 or a later release, ensure that you perform the following activities:
  - Enable IPv4 and DHCPv4 on the network—Load a new Cisco WLC software image on all the Cisco WLCs or perform a predownload of AP images on the corresponding Cisco WLCs.
  - Reboot Cisco WLC immediately or at a preset time.
  - Ensure that all Cisco APs are associated with Cisco WLC.
  - Disable IPv4 and DHCPv4 on the network.
- After downloading the new software to the Cisco APs, it is possible that a Cisco AP may get stuck in an upgrading image state. In such a scenario, it might be necessary to forcefully reboot Cisco WLC to download a new image or to reboot Cisco WLC after the download of the new image. You can forcefully reboot Cisco WLC by entering the **reset system forced** command.
- It is not possible to download some of the older configurations from Cisco WLC because of the Multicast and IP address validations. See the "Restrictions on Configuring Multicast Mode" section in the *Cisco Wireless Controller Configuration Guide* for detailed information about platform support for global multicast and multicast mode.
- If you upgrade from Release 8.0.110.0 to a later release, the **config redundancy mobility mac mac-addr** command's setting is removed. You must manually reconfigure the mobility MAC address after the upgrade.
- If you are upgrading from a 7.4.x or an earlier release to a release later than 7.4, the Called Station ID type information is mapped to the RADIUS Accounting Called Station ID type, which, by default, is set to apradio-mac-ssid. You can configure the RADIUS Authentication Called Station ID type information by using the **config radius auth callStationIdType** command.
- When a client sends an HTTP request, Cisco WLC intercepts it for redirection to the login page. If the HTTP request that is intercepted by Cisco WLC is fragmented, Cisco WLC drops the packet because the HTTP request does not contain enough information required for redirection.
- We recommend that you install Cisco Wireless Controller Field Upgrade Software (FUS), which is a special AES package that contains several system-related component upgrades. These include the bootloader, field recovery image, and FPGA or MCU firmware. Installing the FUS image requires special attention because it installs some critical firmware. The FUS image is independent of the runtime image. For more information about FUS and the applicable Cisco WLC platforms, see the [Field Upgrade Software release notes listing](#).
- When downgrading from one release to another, you might lose the configuration from your current release. The workaround is to reload the previous Cisco WLC configuration files that are saved in the backup server, or to reconfigure Cisco WLC.



- It is not possible to directly upgrade to this release from a release that is earlier than Release 7.0.98.0.
- When you upgrade Cisco WLC to an intermediate release, wait until all the APs that are associated with Cisco WLC are upgraded to the intermediate release before you install the latest Cisco WLC software. In large networks, it can take some time to download the software on each AP.
- You can upgrade to a new release of the Cisco WLC software or downgrade to an earlier release even if FIPS is enabled.
- When you upgrade to the latest software release, the software on the APs associated with Cisco WLC is also automatically upgraded. When an AP is loading software, each of its LEDs blinks in succession.
- We recommend that you access the Cisco WLC GUI using Microsoft Internet Explorer 11 or a later version, or Mozilla Firefox 32 or a later version.
- Cisco WLCs support standard SNMP MIB files. MIBs can be downloaded from the software download page on Cisco.com.
- The Cisco WLC software is factory installed on your Cisco WLC and is automatically downloaded to the APs after a release upgrade and whenever an AP joins a Cisco WLC. We recommend that you install the latest software version available for maximum operational benefit.
- Ensure that you have a TFTP, HTTP, FTP, or SFTP server available for the software upgrade. Follow these guidelines when setting up a server:

- Ensure that your TFTP server supports files that are larger than the size of Cisco WLC software image. Some TFTP servers that support files of this size are tftpd32 and the TFTP server within Cisco Prime Infrastructure. If you attempt to download the Cisco WLC software image and your TFTP server does not support files of this size, the following error message appears:

```
TFTP failure while storing in flash
```

- If you are upgrading through the distribution system network port, the TFTP or FTP server can be on the same subnet or a different subnet because the distribution system port is routable.

- The Cisco WLC Bootloader stores a copy of the active primary image and the backup image. If the primary image becomes corrupted, you can use the Bootloader to boot with the backup image. With the backup image stored before rebooting, choose **Option 2: Run Backup Image** from the **Boot Options** menu to boot from the backup image. Then, upgrade with a known working image and reboot Cisco WLC.

- You can control the addresses that are sent in the Control and Provisioning of Wireless Access Points (CAPWAP) discovery responses when NAT is enabled on the Management Interface, using the following command:

```
config network ap-discovery nat-ip-only {enable | disable}
```

The following are the details of the command:

**enable**—Enables use of NAT IP only in a discovery response. This is the default. Use this command if all the APs are outside the NAT gateway.

**disable**—Enables use of both NAT IP and non-NAT IP in a discovery response. Use this command if APs are on the inside and outside the NAT gateway, for example, Local Mode and OfficeExtend APs are on the same Cisco WLC.



---

**Note** To avoid stranding of APs, you must disable AP link latency (if enabled) before you use the disable option in the **config network ap-discovery nat-ip-only** command. To disable AP link latency, use the **config ap link-latency disable all** command.

---

- Do not power down Cisco WLC or any AP during the upgrade process. If you do this, the software image might get corrupted. Upgrading Cisco WLC with a large number of APs can take as long as 30 minutes, depending on the size of your network. However, with the increased number of concurrent AP upgrades supported, the upgrade time should be significantly reduced. The APs must remain powered, and Cisco WLC must not be reset during this time.
- To downgrade from this release to Release 6.0 or an earlier release, perform either of these tasks:
  - Delete all the WLANs that are mapped to interface groups, and create new ones.
  - Ensure that all the WLANs are mapped to interfaces rather than interface groups.
- After you perform the following functions on Cisco WLC, reboot it for the changes to take effect:
  - Enable or disable LAG
  - Enable a feature that is dependent on certificates (such as HTTPS and web authentication)
  - Add a new license or modify an existing license



---

**Note** Reboot is not required if you are using Right-to-Use licenses.

---

- Increase the priority of a license
  - Enable HA
  - Install the SSL certificate
  - Configure the database size
  - Install the vendor-device certificate
  - Download the CA certificate
  - Upload the configuration file
  - Install the Web Authentication certificate
  - Make changes to the management interface or the virtual interface
- From Release 8.3 or a later release, ensure that the configuration file that you back up does not contain the < or > special characters. If either of the special characters is present, the download of the backed up configuration file fails.

## Upgrading Cisco WLC Software (GUI)

- Step 1** Upload your Cisco WLC configuration files to a server to back up the configuration files.
- Note** We highly recommend that you back up your Cisco WLC configuration files prior to upgrading the Cisco WLC software.
- Step 2** Follow these steps to obtain Cisco Wireless software:
- Browse to Cisco Software Central at: <https://software.cisco.com/download/navigator.html>.
  - Click **Software Download**.
  - On the **Download Software** page, choose **Wireless > Wireless LAN Controller**.  
The following options are displayed. Depending on your Cisco WLC platform, select one of these options:
    - Integrated Controllers and Controller Modules**
    - Mobility Express**
    - Standalone Controllers**
  - Select the Cisco WLC model number or name.
  - Click **Wireless LAN Controller Software**.
  - The software releases are labeled as described here to help you determine which release to download. Click a Cisco WLC software release number:
    - Early Deployment (ED)**—These software releases provide new features and new hardware platform support as well as bug fixes.
    - Maintenance Deployment (MD)**—These software releases provide bug fixes and ongoing software maintenance.
    - Deferred (DF)**—These software releases have been deferred. We recommend that you migrate to an upgraded release.
  - Click the filename *<filename.aes>*.
  - Click **Download**.
  - Read the Cisco End User Software License Agreement and click **Agree**.
  - Save the file to your hard drive.
  - Repeat steps *a* through *j* to download the remaining file.
- Step 3** Copy the Cisco WLC software file *<filename.aes>* to the default directory on your TFTP, FTP, or SFTP server.
- Step 4** (Optional) Disable the Cisco WLC 802.11 networks.
- Note** For busy networks, Cisco WLCs on high utilization, and small Cisco WLC platforms, we recommend that you disable the 802.11 networks as a precautionary measure.
- Step 5** Choose **Commands > Download File** to open the **Download File to Controller** page.
- Step 6** From the **File Type** drop-down list, choose **Code**.
- Step 7** From the **Transfer Mode** drop-down list, choose **TFTP, FTP, or SFTP**.
- Step 8** In the **IP Address** field, enter the IP address of the TFTP, FTP, or SFTP server.
- Step 9** If you are using a TFTP server, the default value of 10 retries for the **Maximum Retries** field, and 6 seconds for the **Timeout** field should work correctly without any adjustment. However, you can change these values, if required. To do so, enter the maximum number of times the TFTP server attempts to download the software in the **Maximum Retries**

field and the amount of time (in seconds) for which the TFTP server attempts to download the software, in the **Timeout** field.

**Step 10** In the **File Path** field, enter the directory path of the software.

**Step 11** In the **File Name** field, enter the name of the software file *<filename.aes>*.

**Step 12** If you are using an FTP server, perform these steps:

- a) In the **Server Login Username** field, enter the username with which to log on to the FTP server.
- b) In the **Server Login Password** field, enter the password with which to log on to the FTP server.
- c) In the **Server Port Number** field, enter the port number on the FTP server through which the download occurs. The default value is 21.

**Step 13** Click **Download** to download the software to the Cisco WLC.  
A message indicating the status of the download is displayed.

**Note** Ensure that you choose the **File Type** as **Code** for both the images.

**Step 14** After the download is complete, click **Reboot**.

**Step 15** If you are prompted to save your changes, click **Save and Reboot**.

**Step 16** Click **OK** to confirm your decision to reboot the Cisco WLC.

**Step 17** If you have disabled the 802.11 networks, reenable them.

**Step 18** To verify that the Cisco WLC software is installed on your Cisco WLC, on the Cisco WLC GUI, click **Monitor** and view the **Software Version** field under **Controller Summary**.

## Interoperability with Other Clients

This section describes the interoperability of Cisco WLC software with other client devices.

The following table describes the configuration used for testing the client devices.

**Table 2: Test Bed Configuration for Interoperability**

Hardware/Software Parameter	Hardware/Software Configuration Type
Release	8.6.101.0
Cisco WLC	Cisco 5520 Wireless Controller
Access Points	AIR-CAP3802E-B-K9, AIR-AP1852E-B-K9, AIR-CAP3602E-A-K9
Radio	802.11ac, 802.11a, 802.11g, 802.11n (2.4 GHz / 5.0 GHz)
Security	Open, PSK (WPA-TKIP-WPA2-AES), 802.1X (WPA-TKIP-WPA2-AES) (EAP-FAST, EAP-TLS)
RADIUS	ACS 5.3, ISE 2.2, ISE 2.3
Types of tests	Connectivity, traffic (ICMP), and roaming between two APs

The following table lists the client types on which the tests were conducted. Client types included laptops, handheld devices, phones, and printers.

**Table 3: Client Types**

<b>Client Type and Name</b>	<b>Version</b>
<b>Laptop</b>	
Intel 6300	15.16.0.2
Intel 6205	15.16.0.2
Intel 7260	18.33.3.2
Intel 7265	19.10.1.2
Intel 3160	18.40.0.9
Intel 8260	19.10.1.2
Broadcom 4360	6.30.163.2005
Dell 1520/Broadcom 43224HMS	5.60.48.18
Dell 1530 (Broadcom BCM4359)	5.100.235.12
Dell 1560	6.30.223.262
Dell 1540	6.30.223.215
Samsung Chromebook	55.0.2883.103
HP Chromebook	55.0.2883.103
MacBook Pro	OSX 10.11.6
MacBook Air old	OSX 10.11.5
MacBook Air new	OSX 10.11.5
Macbook Pro with Retina Display	OSX 10.12
Macbook New 2015	OSX 10.12.4
<b>Printers</b>	
HP Color LaserJet Pro M452nw	2.4.0.125
<b>Tablets</b>	
Apple iPad2	iOS 10
Apple iPad3	iOS 10
Apple iPad mini with Retina display	iOS 10
Apple iPad Air	iOS 10

<b>Client Type and Name</b>	<b>Version</b>
Apple iPad Air 2	iOS 11
Apple iPad Pro	iOS 11
Samsung Galaxy Tab Pro SM-T320	Android 4.4.2
Samsung Galaxy Tab 10.1- 2014 SM-P600	Android 4.4.2
Samsung Galaxy Note 3 - SM-N900	Android 5.0
Microsoft Surface Pro 3	Windows 8.1
	Driver: 15.68.3093.197
Microsoft Surface Pro 2	Windows 8.1
	Driver: 14.69.24039.134
Microsoft Surface Pro 4	Windows 10
	Driver: 15.68.9040.67
Google Nexus 9	Android 6.0.1
Google 10.2" Pixel C	Android 7.1.1
Toshiba Thrive AT105	Android 4.0.4
<b>Mobile Phones</b>	
Cisco 7926G	CP7925G-1.4.5.3.LOADS
Cisco 7925G-EX	CP7925G-1.4.8.4.LOADS
Cisco 8861	Sip88xx.10-2-1-16
Cisco-9971	sip9971.9-4-1-9
Cisco-8821	sip8821.11-0-3ES2-1
Apple iPhone 4S	iOS 10.2.1
Apple iPhone 5	iOS 10.2.1
Apple iPhone 5s	iOS 10.2.1
Apple iPhone 5c	iOS 10.3.1
Apple iPhone 6	iOS 10.3.1
Apple iPhone 6 Plus	iOS 10.3.1
Apple iPhone 6s	iOS 10.2.1
Apple iPhone 7	iOS 11.0.3
Apple iPhone X	iOS 11.1.2
HTC One	Android 5.0

Client Type and Name	Version
OnePlusOne	Android 4.3
OnePlus3	Android 6.0.1
Samsung Galaxy S4 T-I9500	Android 5.0.1
Sony Xperia Z Ultra	Android 4.4.2
Nokia Lumia 1520	Windows Phone 8.10.14219.341
Google Nexus 5	Android 6.0.1
Google Nexus 5X	Android 8.0.0
Google Pixel	Android 7.1.1
Samsung Galaxy S5-SM-G900A	Android 4.4.2
Samsung Galaxy S III	Android 4.3
Samsung Galaxy S4	Android 5.0.1
Samsung Galaxy S5	Android 4.4.2
Samsung Galaxy S6	Android 7.0
Samsung Galaxy S7	Android 7.0
Samsung Galaxy Nexus GTI9200	Android 4.4.2
Samsung Galaxy Mega SM900	Android 4.4.2
LG G4	Android 5.1
Xiaomi Mi 4c	Android 5.1
Xiaomi Mi 4i	Android 6.0.1

## Key Features Not Supported in Cisco WLC Platforms

This section lists the features that are not supported on the different Cisco WLC platforms:



### Note

In a converged access environment that has Cisco WLCs running AireOS code, High Availability Client SSO and native IPv6 are not supported.

## Key Features Not Supported in Cisco 3504 WLC

- Cisco WLAN Express Setup Over-the-Air Provisioning
- Mobility controller functionality in converged access mode
- VPN Termination (such as IPsec and L2TP)

## Key Features Not Supported in Cisco 5520 and 8540 WLCs

- Mobility controller functionality in converged access mode
- VPN termination (such as IPsec and L2TP)
- Fragmented pings on any interface

## Key Features Not Supported in Cisco Virtual WLC

- Cisco Umbrella
- Domain-based ACLs
- Internal DHCP server
- Cisco TrustSec
- Access points in local mode
- Mobility/Guest Anchor
- Wired Guest
- Multicast



---

**Note** FlexConnect locally switched multicast traffic is bridged transparently for both wired and wireless on the same VLAN. FlexConnect APs do not limit traffic based on IGMP or MLD snooping.

---

- FlexConnect central switching



---

**Note** FlexConnect local switching is supported.

---

- AP and Client SSO in High Availability
- PMIPv6
- Datagram Transport Layer Security (DTLS)
- EoGRE (Supported in only local switching mode)
- Workgroup bridges
- Client downstream rate limiting for central switching
- SHA2 certificates
- Cisco WLC integration with Lync SDN API
- Cisco OfficeExtend Access Points



## Key Features Not Supported in Access Point Platforms

### Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP, 1810W, 1815, 1830, 1850, 2800, and 3800 Series APs

For detailed information about feature support on Cisco Aironet Wave 2 APs, see:

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-5/b\\_feature\\_matrix\\_for\\_802\\_11ac\\_wave2\\_access\\_points.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-5/b_feature_matrix_for_802_11ac_wave2_access_points.html).

**Table 4: Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP, 1810W, 1815, 1830, 1850, 2800, and 3800 Series APs**

Operational Modes	<ul style="list-style-type: none"> <li>• Autonomous Bridge and Workgroup Bridge (WGB) mode</li> <li>• Mesh mode</li> <li>• Flex + Mesh</li> <li>• LAG behind NAT or PAT environment</li> </ul>
Protocols	<ul style="list-style-type: none"> <li>• Full Cisco Compatible Extensions (CCX) support</li> <li>• Rogue Location Discovery Protocol (RLDP)</li> <li>• Telnet</li> </ul>
Security	<ul style="list-style-type: none"> <li>• CKIP, CMIC, and LEAP with Dynamic WEP</li> <li>• Static WEP for CKIP</li> </ul>
Quality of Service	Cisco Air Time Fairness (ATF)

FlexConnect Features	<ul style="list-style-type: none"> <li>• Bidirectional Rate Limiting</li> <li>• Split Tunneling</li> <li>• PPPoE</li> <li>• Multicast to Unicast (MC2UC)</li> <li>• Traffic Specification (TSpec) <ul style="list-style-type: none"> <li>◦ Cisco Compatible Extensions (CCX)</li> <li>◦ Call Admission Control (CAC)</li> </ul> </li> <li>• VSA/Realm Match Authentication</li> <li>• Link aggregation (LAG)</li> <li>• SIP snooping with FlexConnect in local switching mode</li> </ul>
----------------------	--

**Note**

For Cisco Aironet 1850 Series AP technical specifications with details on currently supported features, see the [Cisco Aironet 1850 Series Access Points Data Sheet](#).

## Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP, and 1810W Series APs

**Table 5: Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP and 1810W Series APs**

Operational Modes	Mobility Express
FlexConnect Features	Local AP authentication
Location Services	Data RSSI (Fast Locate)

## Key Features Not Supported in Cisco Aironet 1830, 1850, and 1815 Series APs

**Table 6: Key Features Not Supported in Cisco Aironet 1830, 1850, and 1815 Series APs**

Operational Modes	Mobility Express is not supported in Cisco 1815t APs.
FlexConnect Features	Local AP Authentication
Location Services	Data RSSI (Fast Locate)

## Key Features Not Supported in Mesh Networks

- Load-based call admission control (CAC). Mesh networks support only bandwidth-based CAC or static CAC.
- High availability (Fast heartbeat and primary discovery join timer).
- AP acting as supplicant with EAP-FASTv1 and 802.1X authentication.
- AP join priority (Mesh APs have a fixed priority)
- Location-based services

## Key Features Not Supported in Cisco Aironet 1540 Mesh APs

- Dynamic Mesh backhaul data rate.




---

**Note** We recommend that you keep the Bridge data rate of the AP as auto.

---

- Background scanning
- Noise Tolerant Fast Convergence
- Flex+Mesh

## Key Features Not Supported on Cisco Aironet 1560 APs

- MAC Authentication Flex Local Authentication
- Noise Tolerant Fast Convergence
- Static WEP
- Flex+Mesh

## Caveats

### Open Caveats

*Table 7: Open Caveats*

Caveat ID Number	Description
<a href="#">CSCuy61155</a>	802.11b inconsistent probe response; band select enabled; 2.4 GHz
<a href="#">CSCvd91152</a>	3700 APs in FlexConnect mode stop working

Caveat ID Number	Description
<a href="#">CSCve32172</a>	Spectralink phones 8440 and 8742 dropping calls when connected to 3500, 3600 and 3700 APs
<a href="#">CSCve70752</a>	SNMP issue: Txpowerlevel returns null with Cisco WLC Version 8.3.13x.0 and 8.4 at times (including 8.2.161)
<a href="#">CSCve79470</a>	Cisco Wave 2 AP sends RADIUS message directly even if Local Authentication is disabled
<a href="#">CSCvf12011</a>	Webauth logout fails after standalone; connected
<a href="#">CSCvf16153</a>	Active Cisco WLC stopped working with Task Name: SNMPTask
<a href="#">CSCvf21673</a>	Cisco 2800 and 3800 APs send block ACK packets using disabled data rates
<a href="#">CSCvf51131</a>	DHCPv6 stateless not working
<a href="#">CSCvf52731</a>	New Mobility member status shows as Unknown when editing mobility member IP address
<a href="#">CSCvf65133</a>	Dynamic interface template fails to apply on WLC with opt82 setting
<a href="#">CSCvf74377</a>	3800 AP in Sniffer mode: 802.11 acks, RTS, CTS, QoS Null packets do not get captured
<a href="#">CSCvf74406</a>	3800 AP in Sniffer mode: AP does not fill BAR Request Type, BAR Control, SSC, FCS in BAR and BA packets
<a href="#">CSCvf76148</a>	1700 AP continuous radio reset due to incorrect tx inprog
<a href="#">CSCvf80409</a>	1815 AP does not send all traffic after period under load
<a href="#">CSCvf84806</a>	FIQ/NMI Reset AP2800 PC __pci_bus_size_bridges+0x274/0x768 LR warn_slowpath_common+0x58/0x94
<a href="#">CSCvf91228</a>	Cisco WLC unable to timeout clients; stale client entries
<a href="#">CSCvf91434</a>	EoGRE domain: not able to edit from GUI
<a href="#">CSCvf93914</a>	3702 AP: 5-GHz radio constantly flapping
<a href="#">CSCvf94574</a>	Not able to create IPSec profile
<a href="#">CSCvf96532</a>	Cisco WLC anchor commands are missing from the backup
<a href="#">CSCvg03741</a>	SXP connection stay off after disable/enable SXP
<a href="#">CSCvg06111</a>	WLC "in sync" with NTP while authentication is ignored with invalid keys
<a href="#">CSCvg06372</a>	1532I AP fails to receive DHCP address randomly

Caveat ID Number	Description
<a href="#">CSCvg07617</a>	1810W AP Kernel Panic crash is at _ZN17ContentHashFilter11clear_staleEv+0x1ac/0x1d0 [elts_meraki]
<a href="#">CSCvg08001</a>	Cisco WiSM2 stops working for task name spamApTask3 8.2.151.0
<a href="#">CSCvg18543</a>	3700 AP Tx jammed radio unresponsive
<a href="#">CSCvg19117</a>	EoGRE client de-authenticated when AP moved from Standalone to Connected Mode
<a href="#">CSCvg19242</a>	Cisco Aironet 1700, 2700, and 3700 AP log incorrect PHY in sniffer mode for 11ac
<a href="#">CSCvg21910</a>	Deleting one SSID will affect another SSID created on the same radio interface
<a href="#">CSCvg23810</a>	PMTU change to 1500 from a lesser value is not reflected in AP
<a href="#">CSCvg24476</a>	2802 XOR Operational State is Down/Admin Enabled while 802.11a is Up
<a href="#">CSCvg24737</a>	tb20-vWlc-esx1-80—Clients lost the right override VLAN after AP moves from Standalone mode
<a href="#">CSCvg24833</a>	1530 AP WGB stops working on associating with root
<a href="#">CSCvg25773</a>	Cisco 7510 WLC running Release 8.2.151.0 stops working with TaskName:spamApTask7
<a href="#">CSCvg25902</a>	Cisco 3504 WLC: AP cannot join controller when directly connected to GigE Port 1
<a href="#">CSCvg26841</a>	SNMP walk on bsnMeshNodeTable returns no data for IW3700 AP in Flex+Bridge Mode
<a href="#">CSCvg27361</a>	Adding "switchport voice vlan x" causes wired phone not to pull an IP address
<a href="#">CSCvg27599</a>	Cisco WLC stops working sometime when client switches between FT-enabled SSID and CCKM SSIDs
<a href="#">CSCvg27613</a>	DHCP Proxy enabled and removing DHCP Server Info from Dynamic interface disables WLAN
<a href="#">CSCvg28378</a>	AP: cmd timeout AP radio unresponsive in due to rxHang
<a href="#">CSCvg29325</a>	FTP download fails on Cisco WLC when using untagged interfaces on different ports
<a href="#">CSCvg32087</a>	5520 WLC stops working: Task Name: nmspTxServerTask
<a href="#">CSCvg32924</a>	SNMPTask (module:k_mib_cisco_lwapp_local) causing memory leak in 16B buffer
<a href="#">CSCvg33308</a>	3800 AP unresponsive, Kernel panic - not syncing: Fatal exception in interrupt

Caveat ID Number	Description
<a href="#">CSCvg34444</a>	IW3702 WGB one way broadcast traffic on 5 GHz (but good in 2.4 GHz) in a mesh network 1572 AP
<a href="#">CSCvg34502</a>	1542 AP not joining WLC with Costa Rica (CR) Country
<a href="#">CSCvg37474</a>	3802 AP not forwarding client traffic
<a href="#">CSCvg38669</a>	ERROR-MeshSecurity: Processing EAPOL from CAWAWP, Mesh mode is not started
<a href="#">CSCvg38681</a>	FlexConnect AP's WLAN-VLAN mapping's inheritance is lost when a WLAN is deleted from AP group
<a href="#">CSCvg39960</a>	Cisco WLC stops working on task: snmpReceiveTask
<a href="#">CSCvg40792</a>	Client global IPv6 not correctly mapped to MAC address under certain condition
<a href="#">CSCvg43654</a>	Cisco Wave 2 APs in FlexConnect do not forward DHCP NAK to wireless client
<a href="#">CSCvg44078</a>	Cisco WLC unable to timeout clients; stale client entries
<a href="#">CSCvg44450</a>	2800 AP is not able to process the ARP response
<a href="#">CSCvg45550</a>	1530 LAP drop EAP identity packets sent by Cisco WLC random and cause EAP negotiation to fail
<a href="#">CSCvg46125</a>	Cisco WLC stops working multiple times
<a href="#">CSCvg47269</a>	<b>debug disable-all</b> command does not disable debugs for FlexConnect group client debugging
<a href="#">CSCvg48395</a>	TrustSec not workingEnvironment Data download failing with 3504 WLC
<a href="#">CSCvg49532</a>	HA— <b>config service statistics</b> command is not synced
<a href="#">CSCvg53640</a>	1830 AP triggered FW assert for radio failure (beacons stuck)
<a href="#">CSCvg56184</a>	Wave 1 APs in sniffer mode show incorrect TID in captured traffic
<a href="#">CSCvg59338</a>	NMSP drops seen with high density deployments
<a href="#">CSCvg60452</a>	aIOS and FlexConnect standalone failure on FT-dot1x authentication or M3 RSN IE
<a href="#">CSCvg60758</a>	Cisco Wave 2 AP drops TCP retransmit from server
<a href="#">CSCvg62039</a>	False radar detection on AP1832 with 40-MHz CW
<a href="#">CSCvg62560</a>	3800 AP not handling DSCP tags properly

Caveat ID Number	Description
<a href="#">CSCvg63216</a>	WLC RFID queue breached with more than 4000 tags.
<a href="#">CSCvg64621</a>	1852/1832 SI: WLC config file does not contain the SI/CleanAir enable/disable state for network/AP
<a href="#">CSCvg64750</a>	HA osapi_file.c:1030 Failed to open the file, %OSAPI-3-SOCK_SEND_FAILED: [SA]osapi_support
<a href="#">CSCvg64892</a>	FIQ-NMI related Kernel Panic on 3802E AP
<a href="#">CSCvg64993</a>	Cisco WLC mDNS secure printer service response missing TXT record with mdns snooping enabled
<a href="#">CSCvg66702</a>	Cisco WLC stops working endlessly when updating OUI file
<a href="#">CSCvg67318</a>	<b>run-config</b> commands do not include TPC version
<a href="#">CSCvg67509</a>	1810W AP stops working with kernel panic
<a href="#">CSCvg70352</a>	AP 1832/1852 Kernel Panic at __kmallocc_poolid+0xb8/0x16c
<a href="#">CSCvg70903</a>	WLAN session timeout does not default to dot1x reauth timeout when WebAuth is enabled via GUI
<a href="#">CSCvg73797</a>	CAP 2800/3800: command timeout at 0x8000 in FW
<a href="#">CSCvg74107</a>	Cisco WiSM2 stops working on Dot1x_NW_MsgTask due to Dynamic VLAN feature handling for AP702W
<a href="#">CSCvg74780</a>	AP syslog and AP mgmtuser configs lost on reordered config download
<a href="#">CSCvg75583</a>	Server status in the <b>show cloud-services cmx summary</b> command shown as "Server Error"
<a href="#">CSCvg77711</a>	System unresponsive randomly on running mesh commands
<a href="#">CSCvg78101</a>	Local EAP profiles changed not retained after apply
<a href="#">CSCvg79115</a>	Cisco WLC suggested to 5 GHz for Cisco Wave 2 APs but they are staying on 2.4 GHz without auto alignment
<a href="#">CSCvg82156</a>	2802E AP with Radio1 unresponsive
<a href="#">CSCvg82215</a>	Cisco 3504 WLC unresponsive when using mGig port
<a href="#">CSCvg83600</a>	The SPAM QUEUES of the WLC are getting breached.
<a href="#">CSCvg86324</a>	Cisco WLC stops working with SNMP operation with FlexConnect ACL

Caveat ID Number	Description
<a href="#">CSCvg90217</a>	IPv6 rogue clients are shown as unknown
<a href="#">CSCvg91108</a>	WQE size constantly increasing, error messages
<a href="#">CSCvg91708</a>	Cisco WLC emweb unresponsive at commandConfigSpamApAntennaMonitor
<a href="#">CSCvg91734</a>	1852 and 1832 AP—AP data traffic stall in HD environment
<a href="#">CSCvg93023</a>	1562 AP reports incorrect power level to WLC
<a href="#">CSCvg94720</a>	AP: Sending EAP packets unencrypted at session timeout
<a href="#">CSCvg96533</a>	3800 and 2800 AP: FIQ/NMI reset seen on .98 image and .102
<a href="#">CSCvg96852</a>	CAP 1815W Sniffer Mode AP beacons allows clients to join and blackhole traffic
<a href="#">CSCvg96857</a>	WLC SSH/Telnet exits with 1542D Mesh AP with <b>show mesh neigh summary</b> command.
<a href="#">CSCvg94522</a>	smr4: TxFSM stuck on Radio 0 with new signature
<a href="#">CSCvh01089</a>	COS AP: false beacon stuck issue due to no beacon updates in wcp message Host Triggered Radio Crash
<a href="#">CSCvh03148</a>	COS AP: Client shows as connected but unable to pass any traffic

## Resolved Caveats

**Table 8: Resolved Caveats**

Caveat ID Number	Description
<a href="#">CSCuz60197</a>	Cisco Wave 2 APs - "CAPWAP preferred mode" gets displayed as "Not configured"
<a href="#">CSCva89294</a>	AP803 failed to send auth/reasso to new AP while roaming
<a href="#">CSCvc58294</a>	WLC Monitoring Gui: Unable to clear top WLANs statistics
<a href="#">CSCvd09394</a>	AP3700: Tx util values are not changed
<a href="#">CSCvd12313</a>	Wireless client fails to receive Multicast traffic when 802.1X is enabled
<a href="#">CSCvd15449</a>	FRA Probe suppression does not work for pre-association client
<a href="#">CSCvd42321</a>	Cisco 1832 AP drops the CAC SIP 486 packet



Caveat ID Number	Description
<a href="#">CSCvd64928</a>	System stopped working on PMIPv6_Thread_0 during creation of LMA entry
<a href="#">CSCvd79103</a>	Client CCX version for the same client differs for each of the APs
<a href="#">CSCvd79532</a>	8.5 mgmt gw is not reachable after connecting device on MDA port
<a href="#">CSCvd86206</a>	SNMP trapflag adjchannel-rogueap config not retaining during upload/download
<a href="#">CSCvd90160</a>	AP2800 sending announce as 0 in Reassociation response in FlexConnect Mode in FT and adaptive FT
<a href="#">CSCvd92528</a>	Local policy ACL does not apply when intf group mapped to WLAN and DHCP addr assign is disabled
<a href="#">CSCve00155</a>	3802:Unable to update property /soc/gop/mac0:local-mac-address, err=FDT_ERR_NOSPACE
<a href="#">CSCve09179</a>	CAP 3800 sending death to connected clients when CAPWAP flaps.
<a href="#">CSCve12846</a>	1850 Flex mode AP not prioritizing packets based on QoS Map
<a href="#">CSCve13386</a>	Assoc req forwarded to WLC after max clients on ap radio in flex local switching
<a href="#">CSCve13886</a>	WPS signature is getting disabled upon upload or download
<a href="#">CSCve14345</a>	Dashboard UI :- filtering the Accesspoint field with "is Null " and "is not null" is leading to hung
<a href="#">CSCve18213</a>	Foreign WLC leaks IPv6 and IPv4 multicast client traffic out of EoIP tunnel
<a href="#">CSCve18315</a>	WLC allowing blank as avc profile name
<a href="#">CSCve18359</a>	Observed traceback on Cisco 1570 AP when changing AP mode to FlexConnect from Flex+Bridge
<a href="#">CSCve24232</a>	AVC profile showing incorrect characters for an entry after upgrade
<a href="#">CSCve25792</a>	GUI shows label as "AVC Based Reanchor" while configuring in Selective-Roam
<a href="#">CSCve31474</a>	WGB HSR 802.11v neighbor report error message when Infrastructure MFP is enabled
<a href="#">CSCve36498</a>	Ascom phones stop transmitting voice during call
<a href="#">CSCve44977</a>	WLC 8.5.1.138 Dual Band radios showing incorrect suggested mode
<a href="#">CSCve47928</a>	Cisco 8.5 release: AP is not joining the Cisco WLC after image upgrade
<a href="#">CSCve49567</a>	Not able to add TACACS+ server from GUI

Caveat ID Number	Description
<a href="#">CSCve50022</a>	CTS SXP connection flap seen between CAT6K and WLC
<a href="#">CSCve55360</a>	Korean/ Japanese character support in LocalEapProfiles
<a href="#">CSCve56404</a>	Cisco 8.5 release: Cisco XOR radio configured to Sensor mode using GUI has operational state down
<a href="#">CSCve59671</a>	Cisco WLC and ME: RADIUS fail-over does not work when retransmit timeout is not set to default value
<a href="#">CSCve60014</a>	Sleeping client entry not getting created after idle timeout
<a href="#">CSCve64066</a>	AP is not joining the controller when for first time IP is changed from DHCP to static
<a href="#">CSCve65242</a>	Cisco 702w AP radio resets with reason code 71
<a href="#">CSCve72187</a>	Micro-Macro transition configuration should be limited to within the defined range
<a href="#">CSCve73743</a>	Unable to change "Back-up Primary Controller name" from GUI
<a href="#">CSCve75339</a>	Macro to micro transition threshold is not configurable on Mobility Express
<a href="#">CSCve75515</a>	Configuration backup shows the time instead of the NAT IP
<a href="#">CSCve75791</a>	After config upload/download event, netuser start time resets to invalid value.
<a href="#">CSCve78449</a>	Cisco 3700 AP: radio d1 reset: Tx jammed
<a href="#">CSCve80917</a>	IPsec profile should be none on disabling IPsec under SNMP communities and Trap Receiver
<a href="#">CSCve81269</a>	Clients failed to get connected to the Cisco AP in Flex mode with message as AID already in use
<a href="#">CSCve81314</a>	Clients fails to connect to AID with message as All AID are in use when the AP is in Local mode
<a href="#">CSCve82483</a>	Adding Flex + Bridge mode into AP 1562, 1542
<a href="#">CSCve83024</a>	WLC power supply issues not showing up on 360 page
<a href="#">CSCve84257</a>	[8.5] show inventory displaying incorrect output for AP802
<a href="#">CSCve84906</a>	Traceback observed in Cisco WLC while something is fetched for Flex ACL with AVC
<a href="#">CSCve85321</a>	WGB traffic disruption on missed beacons and no scan or roam
<a href="#">CSCve86627</a>	Bridging interface mode get reset to 'access' when configure MeshAP from GUI

Caveat ID Number	Description
<a href="#">CSCve87353</a>	Find button goes disable in successive search for AP filter page
<a href="#">CSCve87947</a>	<b>Show run-config no-ap</b> is missing AP Group and RF profile configuration
<a href="#">CSCve88358</a>	Cisco Wave 2 APs: Flex standalone mode: EoGRE clients are dropped in Local AP VLAN
<a href="#">CSCve89376</a>	Cisco Wave1 APs sends RA periodically when EoGRE tunnel profile is added to the AP
<a href="#">CSCve90032</a>	WLC FEW: flooding logs with "Updating MS IPv6[1] Addr" logs
<a href="#">CSCve90626</a>	Virtual IP address changes to 0.0.0.0 after rebooting
<a href="#">CSCve95309</a>	'WL_IOCTL_SET_MGMT_SEND failed for apr1v0 error Bad address' messages on AP followed by Radio reset
<a href="#">CSCve97039</a>	Cisco 3800 AP drops P2P information element after adding 802.11u or HotSpot support on a WLAN.
<a href="#">CSCve98440</a>	CONFIG WIZARD: after ap group & rf profile mapping add/del command, not able to execute any command
<a href="#">CSCve98689</a>	Repeated CDP-4-DUPLEX_MISMATCH is observed when 1852 and 3802 APs are connected to Cisco 3850 switch.
<a href="#">CSCvf00877</a>	8.5: cmdtimeout when xor in sensor mode, band mismatch errors
<a href="#">CSCvf01576</a>	Cisco 3504 WLC is not generating a crash file.
<a href="#">CSCvf03702</a>	The Mobility Group Members is not able to modified
<a href="#">CSCvf05391</a>	Cisco WLC not sending delete payload to AP on exclusion client manual death
<a href="#">CSCvf05427</a>	Cisco 2800/3800 AP cannot use the RX-SOP
<a href="#">CSCvf05741</a>	Reason for channel change is shown as none and noise/energy/interfere as 0 for the dual band radio
<a href="#">CSCvf05776</a>	Target assert XXXXXXXX WAITING FOR STOP EVENT on Cisco 1810 AP
<a href="#">CSCvf07062</a>	Channel assignment leader shows junk value on standby WLC
<a href="#">CSCvf07189</a>	8.5 Incorrect prompt after executing any CLI with (y/n) option
<a href="#">CSCvf07640</a>	[5520] Setting an IPv6 address for primary-base on an AP from WLC cuts off last characters after ::

Caveat ID Number	Description
<a href="#">CSCvf07968</a>	Cisco Wave 2 AP specific backup RADIUS server configuration lost post CAPWAP reset or AP reload
<a href="#">CSCvf08009</a>	Cisco Wave2 AP reboots with watchdogd-reason CAPWAP on associating avc profile under FlexConnect grp
<a href="#">CSCvf08272</a>	Black-list timer is showing as "blacklist due to be cleared" but still black-list timer remaining
<a href="#">CSCvf08351</a>	cLApEthernetIfMacAddress is not showing AP MAC address
<a href="#">CSCvf08808</a>	dca min-metric not getting logged on TACACS+
<a href="#">CSCvf09040</a>	"Missing 802.1X or client control block" Errors in WLC Message Logs
<a href="#">CSCvf10157</a>	Cisco WiSM2 stopped working with emWeb in 8.5.1.183 build
<a href="#">CSCvf10486</a>	Dual band radio on AP2800 does not go down after changing the country code from IN to US on AP
<a href="#">CSCvf10509</a>	GUI does not show the 5-Ghz radio after changing the country code on CAP 2800, 3800 from IN to US
<a href="#">CSCvf10535</a>	"show wlan" command is not working properly
<a href="#">CSCvf10786</a>	CAP 2800, 3800 sniffer mode logs wrong PHY and data rates for 802.11ac
<a href="#">CSCvf11072</a>	ME: SUBNET_MISMATCH_IP_ADD_ON_MSCB mismatches while registering IP address x.x.x.x
<a href="#">CSCvf11782</a>	Invalid domain name after ap reset
<a href="#">CSCvf11909</a>	External Server IP address accepts broadcast and Loopback address
<a href="#">CSCvf12068</a>	Wrong values of coverage exception & coverage level in RF Profile in uploaded config and tech support
<a href="#">CSCvf13943</a>	RF grouping off in WLC respond join command with incorrect reason code: 1
<a href="#">CSCvf16302</a>	Flash on lightweight IOS APs gets corrupted
<a href="#">CSCvf16842</a>	Tunnel Gateway (TGW) in Cisco 3802 AP comes up only after the Heartbeat interval expires
<a href="#">CSCvf16869</a>	AP continuously reboots with "Process sync_log gone"
<a href="#">CSCvf16958</a>	Cisco Wave 2 AP unable to process VLAN NAME ID mapping TLV payload
<a href="#">CSCvf17088</a>	Cisco WLC fails to respond neighbor request for WLAN id greater than 255

Caveat ID Number	Description
<a href="#">CSCvf17133</a>	8.3.133.0:"config dhcp address-pool test 178.1.0.1 178.1.0.100" hits "Invalid scope specified."
<a href="#">CSCvf17294</a>	Cisco 2800, 3800 APs running 8.2.154.61 release: wifi0 resets multiple times
<a href="#">CSCvf17647</a>	Mismatch in enabling IPv6 multicast address in WLC UI and CLI
<a href="#">CSCvf17664</a>	AVC in disabled state under WLAN AVC mapping on enabling from console
<a href="#">CSCvf18363</a>	Kernel panic stopped working in Cisco 1542 AP
<a href="#">CSCvf18505</a>	When WLC adaptive/fastlane is disabled, the CCX IE is missing in probe response Wave 2 APs
<a href="#">CSCvf19306</a>	AP Name is truncated in client detail for Nearby AP statistics attribute
<a href="#">CSCvf19400</a>	Mobility statistics is getting updated wrongly for L3 roam
<a href="#">CSCvf19452</a>	cLApEthernetIfType is shown as other instead of a correct value
<a href="#">CSCvf19557</a>	cLApEthernetIfCdpEnabled shows true when cdp is disabled on the ap interface
<a href="#">CSCvf19677</a>	Member active WLC showing wrong allowed channel list after switchover
<a href="#">CSCvf20006</a>	Duplicate entries allowed as SNMP community entries with read only and read write - HA synch failing
<a href="#">CSCvf20089</a>	AP adder license is taking effect only after a reboot on the Cisco 3504 WLC.
<a href="#">CSCvf20107</a>	WLC shows radio role as NA and channel and power as blank for slot 2 installed modules
<a href="#">CSCvf20148</a>	Error reason is not provided when user try to delete Out of Box AP group
<a href="#">CSCvf20997</a>	Hotspot getting enabled with open security in WLC
<a href="#">CSCvf21657</a>	AP 1850 radar detection in high density client environment
<a href="#">CSCvf21763</a>	Limit stations in CAPWAP discovery response is giving wrong data
<a href="#">CSCvf22104</a>	Identity PSK does not work when order of PSK mode and PSK key are interchanged
<a href="#">CSCvf22185</a>	In Cisco 2800/3800 and Cisco 1562 APs, the Watchdog reset is observed (capwapd stopped working)
<a href="#">CSCvf22672</a>	WLC - exit is not working after 'advanced fra revert all auto' command execution in config mode
<a href="#">CSCvf22697</a>	Flooding "Invalid checkpoint client ID (0)" message on Standby WLC

Caveat ID Number	Description
<a href="#">CSCvf23079</a>	CAPWAP_HA-3-AP_TEMP_DB_ADD_ERR in standby WLC when changing CAPWAP mode continuously
<a href="#">CSCvf23817</a>	8.6: 5760 WLC Crash by SNMPTask
<a href="#">CSCvf24716</a>	Redundant MAC address is used by standby-wlc for GW and peer RMI
<a href="#">CSCvf24746</a>	Showing wrong AP model name in Popup message
<a href="#">CSCvf25062</a>	Cisco 3802AP on 8.3.124.17 release [cmd mismatch] wifi0: Host Cmd:0x9201 F/W Cmd:0x8001 Last:0x801d
<a href="#">CSCvf25083</a>	8.3MR3: is valid for netflow monitor but not for GUI and error message is incorrectly showing on UI
<a href="#">CSCvf25436</a>	DCA assigns channels out of DCA channel list
<a href="#">CSCvf26013</a>	WLC- Previous AP field is set by the last disassoc frame sent up from the STA not the last roam
<a href="#">CSCvf26065</a>	32 Split Tunnel--char chopped to 31;Edit serves as Add;Error incorrect;Gateway can be removed
<a href="#">CSCvf26207</a>	Cisco 7510 WLC running 8.0.120.36 reloads unexpectedly while running airewave director debug
<a href="#">CSCvf27533</a>	Cisco 3800 AP in a constant reboot loop
<a href="#">CSCvf28003</a>	"FRA Enabled Learn More" navigation link is not working under Best practices
<a href="#">CSCvf29208</a>	Cisco 1560-Mesh: Fixed backhaul rate issues.
<a href="#">CSCvf29426</a>	Implement CCA, RX-SOP thresholds for Marvell autonomous IOS
<a href="#">CSCvf30698</a>	WLC shows COF and Suggested mode as none with FRA enable after HA Failover
<a href="#">CSCvf31054</a>	Continuous FIQ/NMI reloads unexpectedly for 3802 AP when XOR is in sensor mode
<a href="#">CSCvf31090</a>	WLC GUI displays incorrect number of fastlane clients
<a href="#">CSCvf32958</a>	capwapd no heartbeat during waiting for uplink IP address
<a href="#">CSCvf33154</a>	Wireless to Wireless multicast failure on Cisco 2800, 3800 APs with WPA-PSK-TKIP
<a href="#">CSCvf34480</a>	Cisco Wave 2 APs: losing flex-avc-profile config if one out of 2 WLAN disabled
<a href="#">CSCvf34483</a>	CAP 1810 reported timeout communicating to controller on data plane
<a href="#">CSCvf35683</a>	Text view of Dual band radio does not display Rx neighbors

Caveat ID Number	Description
Q	
<a href="#">CSCvf37633</a>	Error in mapping QoS role during the creation of local net users
<a href="#">CSCvf37785</a>	On an 1810W AP, multicast fails to pass on the LAN port when switchport configured for 1000M speed
<a href="#">CSCvf38393</a>	NDP on 2800/3800 not transmitting at Correct Power on 802.11b/g/n Channels
<a href="#">CSCvf38544</a>	WLC: Jamaica Country does not add -E Regulatory Domain support for Outdoor APs
<a href="#">CSCvf40071</a>	WIPS engine gets disabled on 2800 after AP reboot
<a href="#">CSCvf41057</a>	Clients QoS level changes automatically to silver from gold during local authentication
<a href="#">CSCvf41342</a>	HA SSO - Apply Config failed on Standby, Reason:5
<a href="#">CSCvf41587</a>	CAP 3800 rebooted after rejoining WLC (upgrade) due to watchdog reset with "wcpd" as reason.
<a href="#">CSCvf42460</a>	WLC pushing truncated wIPS profile to APs
<a href="#">CSCvf43759</a>	Issue 'no bvi-vlanid' on WGB does not cast IAPP message to refresh BVI VLAN id on AP
<a href="#">CSCvf44042</a>	WLC returns extension channels for XOR in 2.4GHz or Monitor Mode
<a href="#">CSCvf44061</a>	SNMP get or walk on device for bsnAPBridgingSupport returns ENABLE for Cisco 2800, 3800 APs
<a href="#">CSCvf45017</a>	Remote LAN with 1810w in FlexConnect mode not showing client IP
<a href="#">CSCvf45989</a>	WLC DP core 0 hung due to RML interrupt handler
<a href="#">CSCvf46178</a>	Cisco 1262 autonomous AP drops ARP requests
<a href="#">CSCvf47198</a>	1542-Mesh: Fixed backhaul rate configuration does not work
<a href="#">CSCvf49632</a>	CAPWAPd reloads unexpectedly after enabling CAPWAP payload debug
<a href="#">CSCvf50387</a>	new Cisco 1562 AP reloads unexpectedly due to: FIQ/NMI reset
<a href="#">CSCvf50487</a>	Enabling DHCP option 82 on EoGRE profile is not updated in GUI
<a href="#">CSCvf51780</a>	Cisco 3504 WLC reloads unexpectedly during external webauth redirection with MAX length URL
<a href="#">CSCvf51951</a>	Hexdump of packet observed in apf task

Caveat ID Number	Description
<a href="#">CSCvf52875</a>	SNMP:Junk characters instead of server IP when image download is initiated from Prime Infrastructure
<a href="#">CSCvf55570</a>	Clients unable to connect when CCKM and FT802.1X are enabled together
<a href="#">CSCvf55741</a>	Cisco 1532 AP cannot use static IP address when configured as mesh AP (MAP)
<a href="#">CSCvf56556</a>	Guest User role cannot be called properly on the Cisco 2504 WLC platform
<a href="#">CSCvf57305</a>	Issues with 1562s MAP taking a long time to join RAP
<a href="#">CSCvf57588</a>	Cisco Wireless LAN Controller - standby WLC reloads unexpectedly at HA Config Sync Task
<a href="#">CSCvf57743</a>	Certain sequence causes Unexpected displays, 32 char name chopped to 31 Interface Group
<a href="#">CSCvf57859</a>	Ceiling not working if DSCP sent is higher than metal policy of WLAN
<a href="#">CSCvf58977</a>	RTU license count taking over Smart Account count
<a href="#">CSCvf59630</a>	XOR radio does not move to 5GHz/Monitor bands after being marked redundant
<a href="#">CSCvf59970</a>	Crete-Mesh: Client not always authorized after reset
<a href="#">CSCvf60009</a>	Ethernet daisy chain IW3702 GE1 1Gbps reload same time when configured speed 100 & duplex full
<a href="#">CSCvf60045</a>	Cisco Controller reloads unexpectedly on "config bleBeaconwhiteList add"
<a href="#">CSCvf60057</a>	8.3MR3:2800/3800 AP cannot handle Probe Limit Interval up to 64000ms required from CSCvb91652
<a href="#">CSCvf61345</a>	SNMPv3 same user adding accepted silently but actually not able in CLI but ok for UI
<a href="#">CSCvf61646</a>	802.11v BSS Transition Preferred Candidate List Not Included with Radio Policy Set to 802.11a Only
<a href="#">CSCvf61962</a>	Cisco WLC reloads unexpectedly due high CPU usage by SNMP task
<a href="#">CSCvf61975</a>	WLC reaper not creating proper crash file
<a href="#">CSCvf62929</a>	WLC randomly marks wireless management frames with DSCP CS0 instead of CS6
<a href="#">CSCvf63464</a>	AP show CLIs seen having previously joined controller CAPWAP tunneled WLAN entries



Caveat ID Number	Description
<a href="#">CSCvf63534</a>	CONTROLLER->PMIPv6->LMA with 128 char shown incorrectly in GUI/CLI, out of range ERROR issue
<a href="#">CSCvf64199</a>	On 1810 APs warning msg throwing while configuring Tx Power for Radio "B"
<a href="#">CSCvf64931</a>	Summary is showing 7500 Interferers on 2.4GHz but Interferers is showing nothing
<a href="#">CSCvf65362</a>	Buff Leak on ap console when in FlexConnect mode
<a href="#">CSCvf65577</a>	"AP 1388 doe not exist anymore on the system" pops when back on Dual band page
<a href="#">CSCvf65687</a>	EoGRE AP bytes and packets stats are vice-versa in AP and WLC with Wave 1 AP on both CLI and GUI
<a href="#">CSCvf66887</a>	CLI can provision up to 394 characters while GUI/error help message showing max 63 characters
<a href="#">CSCvf67467</a>	System reloads unexpectedly as Reaper Reset:Task wipsTask taking too much CPU
<a href="#">CSCvf67691</a>	EoGRE DHCP82 "show flexconnect dhcp option82" issues
<a href="#">CSCvf68049</a>	IOS AP should send Flex client del instead of MN delete for Flex local auth clients delete
<a href="#">CSCvf68619</a>	3702 NOS Dual-Band setting for CleanAir back silently, many 1601336064s shown in Detail page
<a href="#">CSCvf68648</a>	Dataplane reloads unexpectedly when using EoGRE tunnel
<a href="#">CSCvf68674</a>	Node ptr_meshFileCfg.convMethod value = 3 is out of range for min = 0 and max = 2 upgrade
<a href="#">CSCvf69070</a>	Aironet2802 marking upstream client traffic with incorrect DSCP values when WMM is disabled
<a href="#">CSCvf69071</a>	Cisco 3504 WLC factory default license issue
<a href="#">CSCvf69955</a>	Kernel Panic seen on 1542 Mesh APs
<a href="#">CSCvf71136</a>	Infra IPv6 AP drops off from the WLC every 4 to 12 hours
<a href="#">CSCvf71893</a>	AP not blocking all channels in set to WLC when radar is detected on one of the channels in 80MHz
<a href="#">CSCvf72352</a>	Rogue APs getting contained or containment pending automatically on the WLC
<a href="#">CSCvf72497</a>	CAP 3600 dropping over DTLS tunnel with Cisco 8540 WLC
<a href="#">CSCvf72997</a>	CAP 1832 kernel panic

Caveat ID Number	Description
<a href="#">CSCvf75869</a>	Cisco 2800, 3800 APs: radio0 reloads unexpectedly in longevity due to 3rd party FW issue(s)
<a href="#">CSCvf76245</a>	"debug client" sometimes reports wrong BSSID in (Re)association message
<a href="#">CSCvf76274</a>	APs can no longer join the WLC; CAPWAP-3-DTLS_DB_ERR
<a href="#">CSCvf76429</a>	INTERFERERS Table loading issue for 2.4 GHz,5 GHz
<a href="#">CSCvf76739</a>	Cisco 2800/3800 AAA override VLAN does not work for native VLAN.
<a href="#">CSCvf77787</a>	AP LAG fails using LACP with non-Cisco switches
<a href="#">CSCvf77798</a>	Trapflags do not sync for HA SSO
<a href="#">CSCvf81919</a>	CAP 3800 stops working: selipc causing double free
<a href="#">CSCvf82065</a>	CAP 1562 unable to pass multicast joins from RAP to MAPs
<a href="#">CSCvf82117</a>	WLC fails to send complete IPv6 client information to Prime Infrastructure
<a href="#">CSCvf83251</a>	WLC debug client, flooding logs with " iapp ipv6" logs
<a href="#">CSCvf83404</a>	VLAN override on RLAN with FlexConnect Local Switching does not work
<a href="#">CSCvf83594</a>	Client moving to RUN state from webauth reqd after reassoc request
<a href="#">CSCvf83733</a>	WLC detects IDS Signature attack even if Signature Processing is disabled
<a href="#">CSCvf84540</a>	Cisco 3700 AP: radio d1 reset: Tx jammed, probably beacon was not really sent by Hw
<a href="#">CSCvf84715</a>	AP loses config and NAND disk error messages are seen on console
<a href="#">CSCvf84816</a>	Cisco 1810WAP: Kernel Panic- crash files shows PC is at 0x4 LR is at ieee80211_free_node+0x264/0x4b4
<a href="#">CSCvf85960</a>	Primary Secondary Tertiary controller IPV6 address not retain post reload
<a href="#">CSCvf86007</a>	Buff Leak on AP when AP changes channel
<a href="#">CSCvf86035</a>	1815w Kernel Panic PC wlan_channel_frequency+0x10/0x18 LR acfg_get_client_info+0x84/0x264
<a href="#">CSCvf86148</a>	Cisco 3800 AP reloads unexpectedly while running 8.3.124.40 code
<a href="#">CSCvf87646</a>	Cisco 2800,3800 APs in Sniffer mode - frequent kernel panics observed
<a href="#">CSCvf87731</a>	Cisco 5508 WLC reloads unexpectedly during AP join failure

Caveat ID Number	Description
<a href="#">CSCvf88091</a>	Clients behind 3rd Party WGB fail DHCP post upgrade to 8.0.150.0
<a href="#">CSCvf88518</a>	CAP 1832 reloads unexpectedly due to kernel panic
<a href="#">CSCvf89222</a>	8.5.107.30:standby 8510WLC-reloads unexpectedly with rmgrMain due to IPC timeout occurs repeatedly
<a href="#">CSCvf89334</a>	OpenDNS information is lost when Master AP fails over to the new one
<a href="#">CSCvf92627</a>	AP3802E- on 8.5.107.34 reloads unexpectedly due to watchdog reset(with reason: out to reboot with r)
<a href="#">CSCvf95036</a>	Cisco 1850 radio firmware reloads unexpectedly at 0x009A4859
<a href="#">CSCvf95264</a>	CAP 1800 kernel panic pc @Kfree
<a href="#">CSCvf98138</a>	AP1532 stops working on client connection to WLAN profile with EoGRE tunnel
<a href="#">CSCvf99003</a>	3802 chatter: IOCTL_SET_MGMT_SEND failed for apr0v0 error Operat
<a href="#">CSCvg01352</a>	IPv4 traffic drops with "Packet needs to be fragmented but DF bit is set" and MTU mismatch
<a href="#">CSCvg01740</a>	Deauth reason pulled from association response code wrongly
<a href="#">CSCvg01874</a>	Unable to add LSC CA Certificate on Cisco WLC GUI
<a href="#">CSCvg07115</a>	Debug fastpath command cause the 8540/8510 WLCs to stop working
<a href="#">CSCvg07438</a>	AP3800: Low throughput due to packet drops in AP in both fragmented and non-fragmented packets
<a href="#">CSCvg08398</a>	Observed "buf leak" message on corsica FlexConnect mode APs
<a href="#">CSCvg14346</a>	WLC- is flagging Misc_Reason 0x9 as an Invalid Apple Reason Code but displays proprietary failure
<a href="#">CSCvg15820</a>	AP MAC:SSID:AP Group attribute is not present in Accounting called station ID GUI list
<a href="#">CSCvg20439</a>	CAP 1562 is dropping downlink unicast messages, making connectivity difficult across mesh link
<a href="#">CSCvg20743</a>	The client RSSI/SNR is shown as unavailable when connected to 2800/3800 APs.
<a href="#">CSCvg21263</a>	CIAM Alert: GNU dnsmasq DNS Reply Heap Buffer Overflow Vulnerability
<a href="#">CSCvg21614</a>	"show ap network-diagnostics" does not work for 1815 AP when in FlexConnect OEAP mode

Caveat ID Number	Description
<a href="#">CSCvg22483</a>	Rogue client on friendly rogue contained with 'valid client on rogue AP' auto contain enabled
<a href="#">CSCvg24597</a>	WLC management VLAN zero in kernel causing reachability issues
<a href="#">CSCvg31499</a>	AP 3800,2800 8.5.107.57 and .61 when AP is in flex mode, AP reloads unexpectedly due hostapd process
<a href="#">CSCvg35226</a>	Unable to change Antenna Band Mode to 1562E AP
<a href="#">CSCvg41678</a>	8.6: 2802 Kernel panic PC@AccumulateScanResults
<a href="#">CSCvg46620</a>	Dataplane watchdog timeout due to NBAR max flows exceeded
<a href="#">CSCvg48786</a>	Cisco 1815T AP LAN3 not coming up when a client is directly connected
<a href="#">CSCvg62163</a>	Cisco 3504 WLC not communicating to Smart Licensing Cloud Server
<a href="#">CSCvg87547</a>	AP: Client disconnected due to idle timeout wrongly kicking in when client is going to power save

## Service and Support

### Related Documentation

#### Wireless Products Comparison

- Use this tool to compare the specifications of Cisco wireless access points and controllers:  
<https://www.cisco.com/c/en/us/products/wireless/wireless-lan-controller/product-comparison.html>
- Product Approval Status:  
[https://prdapp.cloudapps.cisco.com/cse/prdapp/jsp/externalsearch.do?action=externalsearch&page=EXTERNAL\\_SEARCH](https://prdapp.cloudapps.cisco.com/cse/prdapp/jsp/externalsearch.do?action=externalsearch&page=EXTERNAL_SEARCH)
- Wireless LAN Compliance Lookup:  
<https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html>

#### Cisco Wireless Controller

For more information about the Cisco WLCs, lightweight APs, and mesh APs, see these documents:

- The quick start guide or installation guide for your particular Cisco WLC or access point
- [Cisco Wireless Solutions Software Compatibility Matrix](#)
- [Cisco Wireless Controller Configuration Guide](#)

- [Cisco Wireless Controller Command Reference](#)
- [Cisco Wireless Controller System Message Guide](#)

For all Cisco WLC software related documentation, see

<http://www.cisco.com/c/en/us/support/wireless/wireless-lan-controller-software/tsd-products-support-series-home.html>

#### **Cisco Mobility Express**

- [Cisco Mobility Express Release Notes](#)
- [Cisco Mobility Express User Guide](#)
- [Cisco Aironet Universal AP Priming and Cisco AirProvision User Guide](#)

#### **Cisco Aironet Access Points for Cisco IOS Releases**

- [Release Notes for Cisco Aironet Access Points for Cisco IOS Releases](#)
- [Cisco IOS Configuration Guides for Autonomous Aironet Access Points](#)
- [Cisco IOS Command References for Autonomous Aironet Access Points](#)

#### **Cisco Prime Infrastructure**

[Cisco Prime Infrastructure Documentation](#)

#### **Cisco Connected Mobile Experiences**

[Cisco Connected Mobile Experiences Documentation](#)

## **Obtaining Documentation and Submitting a Service Request**

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). RSS feeds are a free service.



---

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: <http://www.cisco.com/go/trademarks>. Third-party trademarks mentioned 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. (1110R)

© 2017 Cisco Systems, Inc. All rights reserved.