

# Release Notes for Cisco Wireless Controllers and Lightweight Access Points, Cisco Wireless Release 8.10.181.0, 8.10.182.0, and 8.10.183.0

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## About the Release Notes

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

## Supported Cisco Wireless Controller Platforms

The following controller platforms are supported in this release:

- Cisco 3504 Wireless Controller
- Cisco 5520 Wireless Controller
- Cisco 8540 Wireless Controller
- Cisco Virtual Wireless Controller (vWLC) on the following platforms:
  - VMware vSphere Hypervisor (ESXi) Version 5.x and 6.x
  - Hyper-V on Microsoft Server 2012 and later versions (support introduced in Release 8.4)
  - Kernel-based virtual machine (KVM) (support introduced in Release 8.1). After KVM is deployed, we recommend that you do not downgrade to a Cisco Wireless release that is earlier than Release 8.1).
- Cisco Wireless Controllers for High Availability for Cisco 3504 Wireless Controller, Cisco 5520 Wireless Controller, and Cisco 8540 Wireless Controller
- Cisco Mobility Express



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**Note** In a network that includes Cisco Catalyst Center (formerly Cisco DNA Center) and Cisco AireOS controller, and the controller fails provisioning with **Error NA serv CA certificate file transfer failed** error, as a workaround, we recommend you reboot the affected AireOS controller.

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## Supported Cisco Access Point Platforms

The following Cisco AP platforms are supported in this release:

- Cisco Catalyst 9105 Access Points
  - C9105AXI: VID 04 and earlier
  - C9105AXW: VID 04 and earlier
- Cisco Catalyst 9130 Access Points
  - C9130AXE: VID 03 and earlier
  - C9130AXI: VID 03 and earlier
- Cisco Catalyst 9120 Access Points
  - C9120AXI: VID 07 and earlier
  - C9120AXE: VID 07 and earlier
  - C9120AXP: All VIDs
- Cisco Catalyst 9117 Access Points
- Cisco Catalyst 9115 Access Points
- Cisco Aironet 700 Series Access Points
- Cisco Aironet 700W Series Access Points
- Cisco AP803 Integrated Access Point
- Integrated Access Point on Cisco 1100, 1101, and 1109 Integrated Services Routers
- 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 1840 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 Aironet 4800 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
- Cisco Catalyst IW6300 Heavy Duty Series Access Points
- Cisco 6300 Series Embedded Services Access Points

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 AP803 Cisco ISRs, see:

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

For more information about the integrated access point on Cisco 1100 ISR, see the product data sheet:

<https://www.cisco.com/c/en/us/products/collateral/routers/1000-series-integrated-services-routers-isr/datasheet-c78-739512.html>.

For information about the 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 8.10.183.0

There are no new features that are introduced in this release. For more information about updates in this release, see the [Unfixed and Fixed Issues in Release 8.10.190.0](#) section in this document.



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**Note** For a complete list of all the documentation published for Cisco Wireless Release 8.10, see the Documentation Roadmap at: <https://www.cisco.com/c/en/us/td/docs/wireless/doc-roadmap/doc-roadmap-release-810.html>

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## What's New in Release 8.10.182.0

There are no new features that are introduced in this release. For more information about updates in this release, see the [Unfixed and Fixed Issues in Release 8.10.190.0](#) section in this document.



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**Note** For a complete list of all the documentation published for Cisco Wireless Release 8.10, see the Documentation Roadmap at: <https://www.cisco.com/c/en/us/td/docs/wireless/doc-roadmap/doc-roadmap-release-810.html>

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## What's New in Release 8.10.181.0

There are no new features that are introduced in this release. For more information about updates in this release, see the [Unfixed and Fixed Issues in Release 8.10.190.0](#) section in this document.



**Note** For a complete list of all the documentation published for Cisco Wireless Release 8.10, see the Documentation Roadmap at: <https://www.cisco.com/c/en/us/td/docs/wireless/doc-roadmap/doc-roadmap-release-810.html>

### Prerequisite to Upgrading to Release 8.10.181.0

To avoid stability issues with Cisco Wave 2 APs (due to [CSCwd37092](#) on Release 8.10.181.0, we recommend that you upgrade to the public release 8.10.182.0.

## 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 releases 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 releases 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>.

*Table 2: Upgrade Path to Cisco Wireless Release 8.10.183.0*

Current Software Release	Upgrade Path to Release 8.10.183.0
8.5.x	You can upgrade directly to Release 8.10.183.0.
8.6.x	You can upgrade directly to Release 8.10.183.0.
8.7.x	You can upgrade directly to Release 8.10.183.0.

Current Software Release	Upgrade Path to Release 8.10.183.0
8.8.x	You can upgrade directly to Release 8.10.183.0.
8.9.x	You can upgrade directly to Release 8.10.183.0.
8.10.x	You can upgrade directly to Release 8.10.183.0.

## Upgrading a Cisco Wireless Release

This section describes the guidelines and limitations that you must be aware of when you are upgrading the Cisco Wireless release and the procedure to upgrade.

### Guidelines and Limitations

- An existing WLAN with ? in its name continues to be supported with this upgrade. However, you cannot include ? in the name when creating a new WLAN.
- If an AP locks out the console due to default management user credentials, you must configure the controller AP global credential with non-default username and password to get access to the AP console.
- WPA3 upgrade and downgrade guidelines:
  - If you want to upgrade from Release 8.5 to 8.10 and have WPA1 configured with none of the WPA1 AKM valid for Release 8.10, the WPA1 configuration is disabled after the upgrade.
  - If you downgrade from Release 8.10 to Release 8.5, if any AKM for SAE is configured, the AKM validation fails after the downgrade. The security is set to WPA2 and AKM to 802.1X. However, PMF configuration is retained, which results in an error.
  - FT set to enabled state and PMF set to Required state is allowed in Release 8.10 because PMF and FT configurations are decoupled. However, in Release 8.5, this configuration is invalid. Therefore, upon downgrading to Release 8.5, the WLAN might be disabled.
- Software downgrade guidelines for Release 8.10:
  - If you plan to downgrade the Cisco controller from Release 8.10 software, we recommend you to downgrade to Release 8.5.151.0 or later release to prevent the controller configuration files from being corrupted.
  - If you have configured new country codes in Release 8.10 and if you plan to downgrade to an earlier release, then we recommend that you remove the new country code configurations prior to the downgrade. For more information, see [CSCvq91895](#).
- Before downgrading or upgrading the Cisco Controller to another release check for APs or AP modes support. Ensure that only supported APs are connected and also the APs are moved to supported modes on the release that the controller is upgraded or downgraded to.
- Legacy clients that require RC4 or 3DES encryption type are not supported in Local EAP authentication.
- If you downgrade to Release 8.0.140.0 or 8.0.15x.0, and later upgrade to a later release and also have the multiple country code feature configured, then the configuration file could get corrupted. When you try to upgrade to a later release, special characters are added in the country list causing issues when loading the configuration. For more information, see [CSCve41740](#).




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**Note** Upgrade and downgrade between other releases does not result in this issue.

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- 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 the controller to download a new controller software image or to reboot the controller after the download of the new controller software image. You can forcefully reboot the controller by entering the **reset system forced** command.
- It is not possible to download some of the older configurations from the controller 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.
- When a client sends an HTTP request, the controller intercepts it for redirection to the login page. If the HTTP GET request that is intercepted by the controller is longer than 2000 bytes, the controller drops the packet. Track the Caveat ID [CSCuy81133](#) for a possible enhancement to address this restriction.
- When downgrading from one release to an earlier release, you might lose the configuration from your current release. The workaround is to reload the previous controller configuration files that are saved in the backup server, or to reconfigure the controller.
- When you upgrade a controller to an intermediate release, wait until all the APs that are associated with the controller are upgraded to the intermediate release before you install the latest controller 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 controller 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 the controller is also automatically upgraded. When an AP is loading software, each of its LEDs blinks in succession.
- Controllers support standard SNMP MIB files. MIBs can be downloaded from the software download page on Cisco.com.
- The controller software that is factory-installed on your controller and is automatically downloaded to the APs after a release upgrade and whenever an AP joins a controller. 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 controller 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 controller 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 controller 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, from the **Boot Options** menu, choose **Option 2: Run Backup Image** to boot from the backup image. Then, upgrade with a known working image and reboot controller.

- 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 controller.




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**Note** To avoid stranding of APs, you must disable the 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.

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- Do not power down the controller or any AP during the upgrade process. If you do this, the software image might get corrupted. Upgrading the controller 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 controller must not be reset during this time.
- After you perform the following functions on the controller, 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.




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

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- 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.

## Upgrading Cisco Wireless Software (GUI)

### Procedure

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- Step 1** Upload your controller configuration files to a server to back up the configuration files.
- Note** We highly recommend that you back up your controller configuration files prior to upgrading the controller software.
- Step 2** Follow these steps to obtain controller software:
- Browse to the Software Download portal at: <https://software.cisco.com/download/home>.
  - Search for the controller model.
  - Click **Wireless LAN Controller Software**.
  - The software releases are labeled as described here to help you determine which release to download. Click a controller 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 *h* to download the remaining file.
- Step 3** Copy the controller software file *<filename.aes>* to the default directory on your TFTP, FTP, SFTP, or USB server.
- Step 4** (Optional) Disable the controller 802.11 networks.
- Note** For busy networks, controllers on high utilization, and small controller 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, SFTP, HTTP, or USB**.
- Step 8** Enter the corresponding server details as prompted.
- Note** Server details are not required if you choose HTTP as the transfer mode.



- Step 9** Click **Download** to download the software to the controller.  
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 10** After the download is complete, click **Reboot**.
- Step 11** If you are prompted to save your changes, click **Save and Reboot**.
- Step 12** Click **OK** to confirm your decision to reboot the controller.
- Step 13** If you have disabled the 802.11 networks, reenable them.
- Step 14** (Optional) To verify that the controller software is installed on your controller, on the controller GUI, click **Monitor** and view the **Software Version** field under **Controller Summary**.

## CIMC Utility Upgrade for 5520 and 8540 Controllers

The AIR-CT5520-K9 and AIR-CT8540-K9 controller models are based on Cisco UCS server C series, C220 and C240 M4 respectively. These controller models have CIMC utility that can edit or monitor low-level physical parts such as power, memory, disks, fan, temperature, and provide remote console access to the controllers.

We recommend that you upgrade the CIMC utility to a version that has been certified to be used with these controllers. Controllers that have older versions of CIMC installed are susceptible to rebooting without being able to access FlexFlash, with the result that the manufacturing certificates are unavailable, and thus SSH and HTTPS connections will fail, and access points will be unable to join. See: [CSCvo33873](#). The recommended versions addresses the vulnerability tracked in [CSCvo01180](#) caveat.

The certified CIMC images are available at the following locations:

**Table 3: CIMC Utility Software Image Information**

Controller	Current CIMC Version	Recommended CIMC Version	Link to Download the CIMC Utility Software Image
Cisco 5520 Wireless Controller Cisco 8540 Wireless Controller	2.x	3.0(4r)	<a href="https://software.cisco.com/download/home/286281345/type/283850974/release/3.0(4r)">https://software.cisco.com/download/home/286281345/type/283850974/release/3.0(4r)</a> <b>Note</b> We recommend you to upgrade the firmware from 2.0(13i) to 3.0(4r) using TFTP, SCP protocols only.
Cisco 5520 Wireless Controller Cisco 8540 Wireless Controller	3.0(4d)	3.0(4r)	<a href="https://software.cisco.com/download/home/286281345/type/283850974/release/3.0(4r)">https://software.cisco.com/download/home/286281345/type/283850974/release/3.0(4r)</a>
Cisco 5520 Wireless Controller Cisco 8540 Wireless Controller	4.0(1a)	4.0(2n)	<a href="https://software.cisco.com/download/home/286281345/type/283850974/release/4.0(2n)">https://software.cisco.com/download/home/286281345/type/283850974/release/4.0(2n)</a>

Table 4: Firmware Upgrade Path to 4.x version

Current Firmware Version	Upgrade Path to 4.x version
2.x	You must upgrade to a 3.x version and then upgrade to the recommended 4.x version.
3.x	You can upgrade directly to the recommended 4.x version.

- For information about upgrading the CIMC utility version 2.x, see the *Introduction to Cisco IMC Secure Boot* section in the *Cisco UCS C-Series Servers Integrated Management Controller CLI Configuration Guide, Release 3.0*:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c/sw/cli/config/guide/3\\_0/b\\_Cisco\\_UCS\\_C-Series\\_CLI\\_Configuration\\_Guide\\_301/b\\_Cisco\\_UCS\\_C-Series\\_CLI\\_Configuration\\_Guide\\_201\\_chapter\\_01101.html#d92865e458a1635](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/sw/cli/config/guide/3_0/b_Cisco_UCS_C-Series_CLI_Configuration_Guide_301/b_Cisco_UCS_C-Series_CLI_Configuration_Guide_201_chapter_01101.html#d92865e458a1635)

For information about upgrading the CIMC utility version 2.x using webUI, see the *Updating the Firmware* section [https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c/sw/gui/config/guide/3\\_0/b\\_Cisco\\_UCS\\_C-Series\\_GUI\\_Configuration\\_Guide\\_for\\_HTML5\\_Based\\_Servers\\_301/b\\_Cisco\\_UCS\\_C-Series\\_GUI\\_Configuration\\_Guide\\_207\\_chapter\\_01101.html#task\\_C137961E9E8A4927A1F08740184594CA](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/sw/gui/config/guide/3_0/b_Cisco_UCS_C-Series_GUI_Configuration_Guide_for_HTML5_Based_Servers_301/b_Cisco_UCS_C-Series_GUI_Configuration_Guide_207_chapter_01101.html#task_C137961E9E8A4927A1F08740184594CA).



**Note** When upgrading the firmware using the webUI method, you must select **Install Firmware through Remote Server** option when prompted in the webUI.

- For information about upgrading the CIMC utility, see the *Updating the Firmware on Cisco UCS C-Series Servers* chapter in the *Cisco Host Upgrade Utility 3.0 User Guide*:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/c/sw/lomug/2-0-x/3\\_0/b\\_huu\\_3\\_0\\_1/b\\_huu\\_2\\_0\\_13\\_chapter\\_011.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/c/sw/lomug/2-0-x/3_0/b_huu_3_0_1/b_huu_2_0_13_chapter_011.html)

#### • Updating Firmware Using the Update All Option

This section mentions specific details when using CIMC utility with Cisco 5520 or 8540 controllers. For general information about the software and UCS chassis, see *Release Notes for Cisco UCS C-Series Software, Release 3.0(4)* at:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/release/notes/b\\_UCS\\_C-Series\\_Release\\_Notes\\_3\\_0\\_4.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/release/notes/b_UCS_C-Series_Release_Notes_3_0_4.html)

*Release Notes for Cisco UCS C-Series Software, Release 4.0(2)* at:

[https://www.cisco.com/c/en/us/td/docs/unified\\_computing/ucs/release/notes/b\\_UCS\\_C-Series\\_RN\\_4\\_0\\_2.html](https://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/release/notes/b_UCS_C-Series_RN_4_0_2.html)

Table 5: Resolved Caveats for Release 4.0(2f)

Caveat ID	Description
CSCvn80088	NI-HUU fails to handle the special characters in the password of CIFS remote share

**Table 6: Resolved Caveats for Release 3.0(4I)**

Caveat ID	Description
<a href="#">CSCvp41543</a>	SSH weak KeyExchange algorithm [diffie-hellman-group14-sha1] has to be removed

## Interoperability with Other Clients

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

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

**Table 7: Test Bed Configuration for Interoperability**

Hardware or Software Parameter	Hardware or Software Configuration Type
Release	8.10.x
Cisco Wireless Controller	Cisco 3504 Wireless Controller
Access Points	Cisco 9130, 9120 and 3800 APs
Radio	802.11ax (2.4 GHz or 5 GHz), 802.11ac, 802.11a, 802.11g, 802.11n (2.4 GHz or 5 GHz)
Security	Open, WPA3-SAE/OWE ( WPA3 Supported Clients), WPA2+WPA3 ( Mixed Mode) PSK (WPA2-AES), 802.1X (WPA2-AES)(EAP-PEAP)
RADIUS	Cisco ISE 2.5
Types of tests	Association, Traffic ( TCP/UDP/ICMP) and Roaming between APs

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

**Table 8: Client Types**

Client Type and Name	Driver / Software Version
<b>Wi-Fi 6 Devices (Mobile Phone and Laptop)</b>	
Apple iPhone 11	iOS 14.1
Apple iPhone SE 2020	iOS 14.1
Dell Intel AX1650w	Windows 10 ( 21.90.2.1)
DELL LATITUDE 5491 (Intel AX200)	Windows 10 Pro (21.40.2)
Samsung S20	Android 10
Samsung S10 (SM-G973U1)	Android 9.0 (One UI 1.1)
Samsung S10e (SM-G970U1)	Android 9.0 (One UI 1.1)

<b>Client Type and Name</b>	<b>Driver / Software Version</b>
Samsung Galaxy S10+	Android 9.0
Samsung Galaxy Fold 2	Android 10
Samsung Galaxy Flip Z	Android 10
Samsung Note 20	Android 10
<b>Laptops</b>	
Acer Aspire E 15 E5-573-3870 (Qualcomm Atheros QCA9377)	Windows 10 Pro (12.0.0.832)
Apple Macbook Air 11 inch	OS Sierra 10.12.6
Apple Macbook Air 13 inch	OS Catalina 10.15.4
Apple Macbook Air 13 inch	OS High Sierra 10.13.4
Macbook Pro Retina	OS Mojave 10.14.3
Macbook Pro Retina 13 inch early 2015	OS Mojave 10.14.3
Dell Inspiron 2020 Chromebook	Chrome OS 75.0.3770.129
Google Pixelbook Go	Chrome OS 84.0.4147.136
HP chromebook 11a	Chrome OS 76.0.3809.136
Samsung Chromebook 4+	Chrome OS 77.0.3865.105
DELL Latitude 3480 (Qualcomm DELL wireless 1820)	Win 10 Pro (12.0.0.242)
DELL Inspiron 15-7569 (Intel Dual Band Wireless-AC 3165)	Windows 10 Home (18.32.0.5)
DELL Latitude E5540 (Intel Dual Band Wireless AC7260)	Windows 7 Professional (21.10.1)
DELL XPS 12 v9250 (Intel Dual Band Wireless AC 8260 )	Windows 10 (19.50.1.6)
DELL Latitude 5491 (Intel AX200)	Windows 10 Pro (21.40.2)
DELL XPS Latitude12 9250 (Intel Dual Band Wireless AC 8260)	Windows 10 Home (21.40.0)
Lenovo Yoga C630 Snapdragon 850 (Qualcomm AC 2x2 Svc)	Windows 10(1.0.10440.0)
Lenovo Thinkpad Yoga 460 (Intel Dual Band Wireless-AC 9260)	Windows 10 Pro ( 21.40.0)
<b>Note</b>	For clients using Intel wireless cards, we recommend you to update to the latest Intel wireless drivers if advertised SSIDs are not visible.
<b>Tablets</b>	

<b>Client Type and Name</b>	<b>Driver / Software Version</b>
Apple iPad Pro	iOS 13.5
Apple iPad Air2 MGLW2LL/A	iOS 12.4.1
Apple iPad Mini 4 9.0.1 MK872LL/A	iOS 11.4.1
Apple iPad Mini 2 ME279LL/A	iOS 12.0
Microsoft Surface Pro 3 – 11ac	Qualcomm Atheros QCA61x4A
Microsoft Surface Pro 3 – 11ax	Intel AX201 chipset. Driver v21.40.1.3
Microsoft Surface Pro 7 – 11ax	Intel Wi-Fi chip (HarrisonPeak AX201) (11ax, WPA3)
Microsoft Surface Pro X – 11ac & WPA3	WCN3998 Wi-Fi Chip (11ac, WPA3)
<b>Mobile Phones</b>	
Apple iPhone 5	iOS 12.4.1
Apple iPhone 6s	iOS 13.5
Apple iPhone 8	iOS 13.5
Apple iPhone X MQA52LL/A	iOS 13.5
Apple iPhone 11	iOS 14.1
Apple iPhone SE MLY12LL/A	iOS 11.3
ASCOM SH1 Myco2	Build 2.1
ASCOM SH1 Myco2	Build 4.5
ASCOM Myco 3 v1.2.3	Android 8.1
Drager Delta	VG9.0.2
Drager M300.3	VG2.4
Drager M300.4	VG2.4
Drager M540	DG6.0.2 (1.2.6)
Google Pixel 2	Android 10
Google Pixel 3	Android 11
Google Pixel 3a	Android 11
Google Pixel 4	Android 11
Huawei Mate 20 pro	Android 9.0
Huawei P20 Pro	Android 9.0
Huawei P40	Android 10
LG v40 ThinQ	Android 9.0
One Plus 8	Android 10

<b>Client Type and Name</b>	<b>Driver / Software Version</b>
Oppo Find X2	Android 10
Redmi K20 Pro	Android 10
Samsung Galaxy S7	Android 6.0.1
Samsung Galaxy S7 SM - G930F	Android 8.0
Samsung Galaxy S8	Android 8.0
Samsung Galaxy S9+ - G965U1	Android 9.0
Samsung Galaxy SM - G950U	Android 7.0
Sony Xperia 1 ii	Android 10
Sony Xperia xz3	Android 9.0
Xiaomi Mi10	Android 10
Spectralink 8744	Android 5.1.1
Spectralink Versity Phones 9540	Android 8.1
Vocera Badges B3000n	4.3.2.5
Vocera Smart Badges V5000	5.0.4.30
Zebra MC40	Android 5.0
Zebra MC40N0	Android Ver: 4.1.1
Zebra MC92N0	Android Ver: 4.4.4
Zebra TC51	Android 7.1.2
Zebra TC52	Android 8.1.0
Zebra TC55	Android 8.1.0
Zebra TC57	Android 8.1.0
Zebra TC70	Android 6.1
Zebra TC75	Android 6.1.1
<b>Printers</b>	
Zebra QLn320 Printer	LINK OS 6.3
Zebra ZT230 Printer	LINK OS 6.3
Zebra ZQ310 Printer	LINK OS 6.3
Zebra ZD410 Printer	LINK OS 6.3
Zebra ZT410 Printer	LINK OS 6.3
Zebra ZQ610 Printer	LINK OS 6.3
Zebra ZQ620 Printer	LINK OS 6.3
<b>Wireless Module</b>	

Client Type and Name	Driver / Software Version
Intel I1ax 200	Driver v21.40.1.3, v21.20.1.1
Intel AC 9260	Driver v21.40.0
Intel Dual Band Wireless AC 8260	Driver v19.50.1.6

## Key Features Not Supported in Controller Platforms

This section lists the features that are not supported on various controller platforms:




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

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### Key Features Not Supported in Cisco 3504 Wireless Controller

- 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 Wireless Controllers

- Internal DHCP Server
- 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 Wireless Controller

- Cisco Umbrella
- Software-defined access
- Domain-based ACLs
- Internal DHCP server
- Cisco TrustSec
- Access points in local mode
- Mobility or Guest Anchor role
- Wired Guest
- Multicast




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**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.

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- FlexConnect central switching in large-scale deployments




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**Note**

- FlexConnect central switching is supported in only small-scale deployments, wherein the total traffic on controller ports is not more than 500 Mbps.
- FlexConnect local switching is supported.

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

## Key Features Not Supported in Access Point Platforms

This section lists the key features that are not supported on various Cisco Aironet AP platforms. For detailed information about feature support on Cisco Aironet Wave 2 and 802.11ax APs, see:

[https://www.cisco.com/c/en/us/td/docs/wireless/access\\_point/feature-matrix/ap-feature-matrix.html](https://www.cisco.com/c/en/us/td/docs/wireless/access_point/feature-matrix/ap-feature-matrix.html)



## Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP, 1810W, 1815, 1830, 1850, 2800, 3800, and 4800 Series APs

*Table 9: Key Features Not Supported in Cisco Aironet 1800i, 1810 OEAP, 1810W, 1815, 1830, 1850, 2800, 3800, and 4800 Series APs*

Operational Modes	<ul style="list-style-type: none"> <li>• Autonomous Bridge and Workgroup Bridge (WGB) mode           <p><b>Note</b> WGB is supported in Cisco Aironet 2800, 3800 Series APs.</p> </li> <li>• Mesh mode           <p><b>Note</b> Mesh mode is supported in Cisco Aironet 1815i, 1815m, 1830, 1850, 2800, 3800, and 4800 Series APs in Release 8.10.x.</p> </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> <li>• WPA2 + TKIP           <p><b>Note</b> WPA +TKIP and TKIP + AES protocols are supported.</p> </li> </ul>
Quality of Service	<p>Cisco Air Time Fairness (ATF)</p> <p><b>Note</b> ATF is supported in Cisco Aironet 2800, 3800, and 4800 Series APs in Release 8.10.</p>
FlexConnect Features	<ul style="list-style-type: none"> <li>• PPPoE</li> <li>• Multicast to Unicast (MC2UC)           <p><b>Note</b> VideoStream is supported</p> </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>• 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 10: 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 11: 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

## Key Features Not Supported on Cisco Aironet 1560 APs

- MAC Authentication FlexConnect Local Authentication
- Noise-tolerant fast convergence
- Static WEP

## Key Features Not Supported on Cisco Catalyst IW6300 Heavy Duty Series AP and 6300 Series Embedded Services AP

- MAC Authentication FlexConnect Local Authentication
- Noise-tolerant fast convergence
- Static WEP

## Unfixed and Fixed Issues in Release 8.10.190.0

### Open Caveats for Release 8.10.183.0

*Table 12: Open Caveats*

Identifier	Headline
<a href="#">CSCvw28085</a>	OEAP flooding syslog messages: "parse_tx_bcn: Bcn payload is NULL"
<a href="#">CSCvw70260</a>	Cisco Aironet 1572EAC Access Point does not respond to the Canadian EIRP regulation
<a href="#">CSCvy93234</a>	High Channel Utilization issue is seen in AP device 360 but not in ICAP RF Stats Channel Utilization
<a href="#">CSCvz59428</a>	Unclear reason for Radio reset due to role change sent from Controller to DNA Center
<a href="#">CSCvz90902</a>	Cisco 9130 AP: Probe suppression for Macro Micro cell client steering not working
<a href="#">CSCwa04589</a>	Cisco 9120AXP-E: AP max transmit power is low on Radio 1 -E domain
<a href="#">CSCwa25735</a>	AP1832 does not forward packets to radio (SF 05778975/05852147/06092559)
<a href="#">CSCwa30098</a>	AP9136 disconnects the clients during GTK rekeying interval (SF05549686)
<a href="#">CSCwa68709</a>	Cisco 9115 AP reports DFS on channels incorrectly: "blocked list due to be cleared"
<a href="#">CSCwa73818</a>	Cisco 9130AX AP radio firmware crash: ar_wal_peer.c:8149 Assertion !WAL_IS_TID_QOS_DATA[SF 05684825]
<a href="#">CSCwa76206</a>	Kernel panic : PC is at mv_pp3_dev_open+0xbfc/0x1014 on 17.3.5EFT
<a href="#">CSCwa76218</a>	Kernel panic : PC is at pci_common_init_dev+0xa4/0x2c0 on 17.3.5EFT
<a href="#">CSCwb23886</a>	Cisco 1810W: RLAN DHCP issues with certain client models

Identifier	Headline
<a href="#">CSCwb41815</a>	AP not copy DHCP ACK packets to WLC after enable "cts manual" on switch in 8.10
<a href="#">CSCwb45619</a>	Cisco AP reloads unexpectedly due to soft lockup - PC is at _raw_spin_unlock_irqrestore+0x10
<a href="#">CSCwb45628</a>	Cisco 9120 AP reloads unexpectedly on RHL with PC is at __rhb_send_cmd_shm+0xf8
<a href="#">CSCwb74334</a>	Unable to set QoS OID - 1.3.6.1.4.1.9.9.512.1.1.3.1.1 using CPI and snmpset command
<a href="#">CSCwb79809</a>	Upstream video traffic drops on Cisco 9124 AP
<a href="#">CSCwb80959</a>	Cisco 8540 Controller is dropping ARP packets upstream
<a href="#">CSCwc02477</a>	Cisco 9130 AP does not transmit EAP Identity Request [SF 05884552]
<a href="#">CSCwc06996</a>	Cisco 1852 AP: Reboot request event radio recovery failed; brain: safe_read_select failed
<a href="#">CSCwc12918</a>	Cisco controller reloads unexpectedly in SNMPTask due to Reaper Reset
<a href="#">CSCwc28757</a>	Cisco 3800 AP Radio reloads unexpectedly on Slot 0 ap-17.9.0.135
<a href="#">CSCwc29375</a>	Cisco 2800 AP detects it own BSSID as Rogue - No NDP MSG in debug
<a href="#">CSCwc32182</a>	AP 1852 Radio Firmware Crash (SF 06029787/06121536)
<a href="#">CSCwc38912</a>	LWA Client is immediately deleted when joining Flex WLAN after Site/Policy Tag change
<a href="#">CSCwc42728</a>	Cisco AP reloads unexpectedly due to WCPD process
<a href="#">CSCwc49464</a>	Cisco 9115 and 9120 stuck in boot loop due to signature verification failure
<a href="#">CSCwc49841</a>	WLC not sending OpenRoaming measurement information to DNAS Connector
<a href="#">CSCwc49970</a>	Cisco Aironet 2800, 3800, 4800 Channel 165 not allowed
<a href="#">CSCwc56767</a>	Cisco 5520 Controller reloads unexpectedly when executing the command "show tech"
<a href="#">CSCwc59814</a>	Disable Burst Beacon by default for 11ac Wave2 QCA APs
<a href="#">CSCwc61347</a>	Cisco 9136I AP Kernel crash on ap-17.9.1.7
<a href="#">CSCwc64201</a>	Cisco 9105 as WGB fails to forward packets OTA producing gaps in the communication
<a href="#">CSCwc67150</a>	DCA triggering multiple channel changes on 2.4G in clean env
<a href="#">CSCwc70979</a>	Cisco 9130 kernel panic due to DFS detection (PC is at 0xfffffbffd31da70)
<a href="#">CSCwc72194</a>	AP9120: Radio Core Dump: wl0: wlc_check_assert_type HAMMERING; CS00012258561
<a href="#">CSCwc73462</a>	For FlexConnect groups config,backslash \ in the end of the radius servers shared secret not allowed

Identifier	Headline
<a href="#">CSCwc73671</a>	Cisco Wave 2 AP sending too many client deauth frames with code 0x0007
<a href="#">CSCwc73906</a>	Wired LAN incorrect anchor export map
<a href="#">CSCwc75732</a>	Firmware Radio crash on Cisco 4800 Access point on 17.3.5b code
<a href="#">CSCwc81467</a>	RHL reset observed in 9120

## Resolved Caveats for 8.10.183.0, 8.10.182.0, 8.10.181.0

**Table 13: Resolved Caveats for Release 8.10.183.0**

Identifier	Headline
<a href="#">CSCwd80290</a>	IOS AP image validation certificate Failed/Expired; causing AP join issues

**Table 14: Resolved Caveats for Release 8.10.182.0**

Identifier	Headline
<a href="#">CSCvx32806</a>	Cisco 2800, 3800 series APs stuck in bootloop due to image checksum verification failed
<a href="#">CSCwc78435</a>	Cisco Catalyst 9130 sending incorrect channel list on out of band DFS event causing client connectivity issues
<a href="#">CSCwd11897</a>	Power parameter for AP803 under the radio interface shows ambiguous
<a href="#">CSCwd37092</a>	Cisco 2800,3800,4800,1562,6300 series AP:Slow TCP downloads, failing EAP-TLS in release 8.10.181.0/17.3.6

**Table 15: Resolved Caveats for Release 8.10.181.0**

Identifier	Headline
<a href="#">CSCvv11509</a>	Command "debug dot11 client rate" shows legacy Tx/Rx data rates for 11ax clients
<a href="#">CSCvv20610</a>	WGB does not support PSK with 63 characters
<a href="#">CSCvv30453</a>	Cisco 1800APs: add FW checksum and auto refresh to avoid FW assert radio crash by bitflip
<a href="#">CSCvw10013</a>	Cisco Aironet 1852 AP radio hangs causing packets drops
<a href="#">CSCvx48053</a>	Access point beacons incorrect rates; clients cannot associate
<a href="#">CSCvy50461</a>	Sometimes, after WGB reloads, WGB wired traffic never gets restored
<a href="#">CSCvy50461</a>	WGB wired traffic sometimes never gets restored after WGB reloads
<a href="#">CSCvy59547</a>	GUI displays incorrect tagged VLAN data

Identifier	Headline
<a href="#">CSCvz15425</a>	Cisco Aironet 1815w AP experiences kernel panic when upgraded to the latest 8.5.176.0
<a href="#">CSCvz35716</a>	Cisco 3802 AP: ME Controller reloads unexpectedly with OOM due to: process naconnector
<a href="#">CSCvz41113</a>	AP will reload unexpectedly if shutdown uplink switchport or w10/1/8
<a href="#">CSCvz59191</a>	APs do not send NDP packets on slot 1
<a href="#">CSCvz66623</a>	EAP-TLS is failing for the wired clients behind MAP. MVL Case #00259413
<a href="#">CSCvz95502</a>	WGB Wired Clients MAC Flapping Between The Actual Port And the WGB Switch Port
<a href="#">CSCvz96924</a>	Cisco 9130 Access Point does not send M1 over the Air
<a href="#">CSCwa05828</a>	AP does not respond to controller's Discovery Response: Error connecting TLS context
<a href="#">CSCwa08478</a>	AP4800 core-radio0FW [cmd timeout] wifi0: 0x9201=GetRadioStatus after 4 days up running
<a href="#">CSCwa19345</a>	Cisco 9115AX AP: assert:"SCB_DEL_IN_PROGRESS(scbb)" failed: "wlc_assoc.c:11911" wl: Bad Address
<a href="#">CSCwa26370</a>	grpc_server Process crash seen and Core generated due to panic: send on closed channel
<a href="#">CSCwa26814</a>	3800 AP not passing ARP requests on central WLAN when configured on Custom Flex Group
<a href="#">CSCwa31596</a>	Cisco 9130AX AP: high channel utilization and client lags with 9 or more clients using MS TEAMS
<a href="#">CSCwa33537</a>	Cisco 9117AX AP radio reloads unexpectedly due to partial command issues (SF 05580128)
<a href="#">CSCwa36216</a>	C9120AXI sends weaker beacons than AP2802I CS00012215351/CS00012224614
<a href="#">CSCwa42620</a>	9130 - AP dropping packets On-Air for Phoenix WinNonlin Application (SF 05979576)
<a href="#">CSCwa47154</a>	Controller Details Are Not Refreshed in Umbrella After a failover
<a href="#">CSCwa48648</a>	Wireless devices getting Invalid FT IE when using FT over the DS to roam
<a href="#">CSCwa49086</a>	Cisco 3802 FQI/NMI reset: LocateAddr & extStaDb_GetStaInfo
<a href="#">CSCwa49112</a>	Cisco 3802 FQI/NMI reset: loop_delay & wRecv
<a href="#">CSCwa49124</a>	Cisco 3802 kernel panic - _ZN19ProbeRequestTracker13simple_actionEP6Packet
<a href="#">CSCwa49135</a>	Cisco 3802 kernel panic - sys_sigreturn & recal_sigpending
<a href="#">CSCwa53592</a>	Cisco 9120AX APs show as Flexible Radio Assignment (FRA) not capable on 17.3.4c release

Identifier	Headline
<a href="#">CSCwa53727</a>	Cisco 9117AX AP reloads unexpectedly at cmnos_thread.c:3493
<a href="#">CSCwa54943</a>	Cisco Wave 2 APs with RLAN port connecting to device running LLDP would reboot due to Out of Memory
<a href="#">CSCwa57078</a>	The flap between DHCP and static IP address when Ethernet VLAN tagging on access point is enabled
<a href="#">CSCwa59673</a>	Cisco 3802 FQI/NMI reset at rb_next+0xc
<a href="#">CSCwa61087</a>	Cisco 1562 AP acting as WGB is unable to pass multicast traffic to passive client behind it
<a href="#">CSCwa61885</a>	Cisco controller reloads unexpectedly due to timer leak on apfMsConnTask
<a href="#">CSCwa65318</a>	Cisco 9130 AP: Tx power for Microcell created by the AP for slot2
<a href="#">CSCwa68439</a>	3800 AP sends a burst of deauth frames after each session timeout for each AP in PSK WLAN
<a href="#">CSCwa70278</a>	Cisco Wave 2 APs: MAP is failed to form 5 hop stable mesh tree
<a href="#">CSCwa73535</a>	1830/1850 AP (EGYPT) won't advertise HT/VHT IE in beacons/probes without custom channel width change
<a href="#">CSCwa73820</a>	Cisco 4800 AP would not negotiate full power via LLDP
<a href="#">CSCwa75901</a>	Cisco 9117 Beacon stuck-reloads unexpectedly due to radio failure (radio recovery failed)
<a href="#">CSCwa76008</a>	The value of "Channel Center Segment 0" in " VHT Operation Info"
<a href="#">CSCwa77205</a>	AP1832/1852/1815 : Kernel Panic @wlan_handle_napi
<a href="#">CSCwa77633</a>	Cisco 1832 AP reloads unexpectedly due to kernel panic
<a href="#">CSCwa79564</a>	Cisco 2800,3800 APs on 8.10.162: Power Type displayed is incorrect when static power is set to 15.4W
<a href="#">CSCwa81190</a>	Null pointer de-reference in wlc_wnm_is_wnmsleeping
<a href="#">CSCwa82660</a>	AP2800/AP3800 with CAC configured only updating QBSS_AAC sent by WLC after radio reset
<a href="#">CSCwa85088</a>	Wired client behind Cisco WGB is not taking DHCP IP address
<a href="#">CSCwa86015</a>	C9120 Kernel panic crash - PC is at __kmallocc+0x5c/0x140
<a href="#">CSCwa86610</a>	Cisco 2802 and 3802: Kernel panic crash running 8.10.151.0 image
<a href="#">CSCwa88621</a>	C9120AXI - capwapd.service failed
<a href="#">CSCwa90871</a>	9120AP:wcpd.service failed SW crashed on Process wcpd on 9120AP running 17.7.1.11

Identifier	Headline
<a href="#">CSCwa95705</a>	Cisco 2802 AP reloads unexpectedly due to FIQ/NMI reset
<a href="#">CSCwa96198</a>	CWA clients with Run state cannot go online even though it is run state
<a href="#">CSCwa96429</a>	Cisco Wave 2 AP disconnects from the WLC after cts switchport config
<a href="#">CSCwa97033</a>	Cisco 9120 AP: Kernel crash seen while bringing up the slot1 radio
<a href="#">CSCwb02488</a>	9120 Kernel Crash PC is at number.isra & LR is at vsnprintf
<a href="#">CSCwb05556</a>	AP does not send multicast data till it snoops IGMPv2
<a href="#">CSCwb05569</a>	AP 9130 is randomly not transmitting beacons (SF 05737407)
<a href="#">CSCwb07125</a>	APs own MAC is detected as rogue on slot1/slot3 intermittently with empty SSID
<a href="#">CSCwb08755</a>	Cisco 9130, 9120 AP in FlexConnect mode is not sending SA query
<a href="#">CSCwb08956</a>	2800 APs changing the TID for eapol packets from 6 to 0 after changing rf profile in 9800
<a href="#">CSCwb09248</a>	High latency and drops when associated to Cisco 9130 AP
<a href="#">CSCwb11711</a>	Cisco 9120, 9130 APs in FlexConnect mode, send Assoc reject after the 1st successful connection
<a href="#">CSCwb11854</a>	Low Throughput with WLC8540 and AP1852
<a href="#">CSCwb16632</a>	AireOS SMART Licensing registration/renewal due to SSL certificate problem
<a href="#">CSCwb19448</a>	Cisco 9117 running 8.10mr6 reloads unexpectedly due to kernel panic in cisco_wlan_crypto_decap
<a href="#">CSCwb19680</a>	Incorrect kernel assertion in checking invalid timer objects
<a href="#">CSCwb19993</a>	After a software upgrade, the Cisco Wave 2 AP might lose its configuration.
<a href="#">CSCwb23976</a>	Cisco 9117 reloads unexpectedly due to Kernel panic dp_print_host_stats with fix for CSCwa52449
<a href="#">CSCwb28006</a>	AP3800 plumbing client to VLAN 1 instead of native VLAN 0 causing ARP drops OUTER_UCAST_VLAN_BLOCK
<a href="#">CSCwb30993</a>	Kernel panic crashes on Cisco 9117AXI-E
<a href="#">CSCwb32121</a>	Cisco 1832 reloads due to radio failure - Beacon Stuck- reset radio for recovery
<a href="#">CSCwb34215</a>	AP assert:"0" failed: file "wlc_pcb.c:384" (CS00012237864)
<a href="#">CSCwb34231</a>	Cisco 9115 AP: Power Saving Client State on radio
<a href="#">CSCwb36531</a>	AP 9130 not able to process fragmented EAP frames from client when doing EAP-TLS
<a href="#">CSCwb37452</a>	Anchor Passthrough webauth presents PEM timeout after hitting RUN



Identifier	Headline
<a href="#">CSCwb45599</a>	Cisco AP reloads unexpectedly with ppr_create_prealloc+0xbc
<a href="#">CSCwb51769</a>	8.10.171.0 showing Junk character with command Show ap join stats summary all
<a href="#">CSCwb53348</a>	Cisco 9130 APs generating radio core dumps
<a href="#">CSCwb62329</a>	Cisco 9120 not sending A-MPDUs for WPA1 AES clients in WPA1 and WPA2 mixed mode
<a href="#">CSCwb68720</a>	AP sending ARP packet without VXLAN encapsulation
<a href="#">CSCwb69256</a>	AireOS system reloads unexpectedly due to Task Name emWeb Due to NTP
<a href="#">CSCwb70757</a>	Cisco 9130 AP reloads unexpectedly due kernel panic
<a href="#">CSCwb71679</a>	Cisco 4800 Series AP on 8.10.171.0 crash due to FIQ/NMI reset
<a href="#">CSCwb73294</a>	C9105 AP has low throughput on 2.4GHz with AX clients with adjacent channel interference
<a href="#">CSCwb76882</a>	Rogue: Cisco Catalyst 9130 AP detects its own BSSID as Rogue in 5-Ghz channel
<a href="#">CSCwb76935</a>	Cisco 1815-T OEAP Kernel Panic Crash on 17.8.1CCO
<a href="#">CSCwb94209</a>	Cisco 9115 AP: Mode reset button does not clear CC mode and console blocking config
<a href="#">CSCwb95196</a>	non-GA - webauth presents PEM timeout after hitting RUN
<a href="#">CSCwb95980</a>	C9130 Kernal crash - PC is at _ZN10CACMetrics25accumulate
<a href="#">CSCwb98247</a>	Cisco AP reloads unexpectedly in wlan_objmgr_peer_release_ref running 17.3.5
<a href="#">CSCwc04079</a>	8.10.171.4    WGB mode - Unable to assign static IP with subnet mask other than /24
<a href="#">CSCwc05350</a>	Cisco Wave 2 APs: CAPWAP MTU flapping due to asymmetric MTU between AP to WLC and WLC to AP
<a href="#">CSCwc06293</a>	Cisco 9120 AP stops beaconing
<a href="#">CSCwc07421</a>	Cisco 4800-NDP: APs own MAC address added in NDP neighbor list
<a href="#">CSCwc09461</a>	Cisco 9120 AP's delaying Authentication response frame
<a href="#">CSCwc14934</a>	Outlook access not work on OEAP split tunnel but intranet/internet works fine
<a href="#">CSCwc15152</a>	WLC does not show TSM Reports
<a href="#">CSCwc15229</a>	Cisco 1832 reloads due to radio failure - Beacons stuck on Radio
<a href="#">CSCwc17045</a>	AP console locks out after FIPS enable and AP full factory reset from eWLC, before CAPWAP rejoin

Identifier	Headline
<a href="#">CSCwc20929</a>	APP hosting segmentation does not work on Cisco 9100 AP and C9800 controller running 17.6.3
<a href="#">CSCwc22254</a>	[AireOS]: With FIPS enabled on 3504 and 5520, Mobility Tunnel does not comes up
<a href="#">CSCwc23892</a>	GUI-AP Join statistics page ap names are not showing in GUI mode
<a href="#">CSCwc35321</a>	Wave 2 APs in local mode sending ARP requests to wireless clients from 10.128.128.128 IP address
<a href="#">CSCwc51428</a>	Cisco 9130 AP: Kernel panic. __dma_inv_range+0x20/0x50
<a href="#">CSCwc51894</a>	Cisco 9117 AP reloads unexpectedly due to Kernel panic, dp_print_host_stats
<a href="#">CSCwc54470</a>	Cisco Wave 2 AP command "config boot crashkernel enable" does not generate kernel core to USB
<a href="#">CSCwc56774</a>	WGB with Static IP loses IP address after multiple roams
<a href="#">CSCwc71198</a>	CAPWAP flapping when VRRPv3 is present in network
<a href="#">CSCwc75102</a>	Mobility Express AP Conversion to CAPWAP via DHCP Option 43 not working

## 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 controllers, lightweight APs, and mesh APs, see these documents:

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

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

For all controller 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](#)

### **Open Source Used in Controller and Access Point Software**

Click this link to access the documents that describe the open source used in controller and access point software:

<https://www.cisco.com/c/en/us/about/legal/open-source-documentation-responsive.html>

### **Cisco Prime Infrastructure**

[Cisco Prime Infrastructure Documentation](#)

### **Cisco Connected Mobile Experiences**

[Cisco Connected Mobile Experiences Documentation](#)

### **Cisco Digital Network Architecture**

<https://www.cisco.com/c/en/us/support/wireless/dna-spaces/series.html>

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