

Release Notes for Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.x

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Introduction to Cisco Embedded Wireless Controller on Catalyst Access Points



Problem Description: Authentication fails when attempting to upgrade software using the "CCO mode" in Cisco Embedded Wireless Controller (EWC) on a Cisco Catalyst Access Point (EWC-AP). This issue occurs when attempting to upgrade from a software release prior to one of the following releases: 17.3.x, 17.6.x, 17.9.5, 17.12.3, and 17.14.1.

Background: From May 1, 2024, onwards, Cisco Connection Online (CCO, known as cisco.com) will use a new authentication system for EWC-AP. This system is not backward compatible with the earlier EWC-AP software releases. EWC-AP software developed after January 31, 2024, will be able to authenticate with Cisco.com, before and after May 1, 2024. The releases include: 17.9.5 and later, 17.12.3 and later, and 17.14.1 and later.

Workaround: Download the desired EWC-AP image and load it into the EWC-AP over TFTP, SFTP, or (Desktop) HTTP.

Upgrade to one of the following releases:

- 1. 17.9.5 or later
- 2. 17.12.3 or later
- 3. 17.14.1 or later

After the upgrade, the CCO method for upgrades will work.

For more information, see Field Notice: FN74124.

The Cisco Embedded Wireless Controller on Catalyst Access Points is a version of the Cisco IOS XE-based controller software on Catalyst access points (AP). In this solution, a Catalyst AP that is running the Cisco

Embedded Wireless Controller on Catalyst Access Points software, is designated as the primary AP. Other APs, referred to as subordinate APs, associate to this primary AP.

The Cisco Embedded Wireless Controller on Catalyst Access Points provides enterprise-level WLAN features while maintaining operational simplicity and affordability. This solution is targeted at small and medium-sized business (SMB) customers or distributed enterprises, and can be run at single site deployments.

- The controllers come with high availability (HA) and seamless software updates. This keeps your services on always, both during planned and unplanned events.
- The deployment can be managed using a mobile application, Cisco Catalyst Center, Netconf/Restconf, web-based GUI, or CLI.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.5

There are no new features in this release.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.4a

There are no new features in this release. This release provides a fix for CSCwh87343: Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: cisco-sa-iosxe-webui-privesc-j22SaA4z.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.4

There are no new features in this release.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.3

There are no new features in this release.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.2

There are no new features in this release.

What's New in Cisco Embedded Wireless Controller on Catalyst Access Points, Cisco IOS XE Cupertino 17.9.1

Table 1: New and Modified Software Features

| Feature Name | Description and Documentation Link | | | |
|--|--|--|--|--|
| Zero Wait Dynamic Frequency Selection | When an access point (AP) moves to Dynamic Frequency Selection (DFS) channel, a service outage can occur. This feature helps to avoid service outages in regulatory domains. As of now, the US and Europe are the only supported domains. | | | |
| | For more information, see the chapter Zero Wait Dynamic Frequency Selection. | | | |
| Mesh Backhaul RRM Support | From this release onwards, RRM DCA runs on mesh backhaul, in the auto mode, when you configure the wireless mesh backhaul rrm auto-dca command. For APs that do no have dedicated (RHL) radios, DCA is triggered by running commands in the privilege EXEC mode. Mesh RRM DCA runs in the background for RHL radio enabled APs. | | | |
| | The following commands are introduced: | | | |
| | • ap dot11 {24ghz 5ghz 6ghz} rrm channel-update mesh | | | |
| | • ap dot11 {24ghz 5ghz 6ghz} rrm channel-update mesh bridge-group | | | |
| | • ap name Cisco-ap-name dot11 {24ghz 5ghz 6ghz} rrm channel update mesh | | | |
| | • show wireless mesh rrm dca status | | | |
| | • wireless mesh backhaul rrm auto-dca | | | |
| | For more information, see the chapter Mesh Access Points. | | | |
| RUM Report Throttling | For all topologies where the product instance initiates communication, the minimum reporting frequency is throttled to one day. This means the product instance does not send more than one RUM report a day. | | | |
| | The affected topologies are: <i>Connected Directly to CSSM</i> , <i>Connected to CSSM Through CSLU</i> (product instance-initiated communication), <i>CSLU Disconnected from CSSM</i> (product instance-initiated communication), and <i>SSM On-Prem Deployment</i> (product instance-initiated communication). | | | |
| | This resolves the problem of too many RUM reports being generated and sent for certain licenses. It also resolves the memory-related issues and system slow-down that was caused by an excessive generation of RUM reports. | | | |
| | You can override the reporting frequency throttling, by entering the license smart sync command in privileged EXEC mode. This triggers an on-demand synchronization with CSSM or CSLU, or SSM On-Prem, to send and receive any pending data. | | | |
| | RUM report throttling also applies to the Cisco IOS XE Amsterdam 17.3.6 and later releases of the 17.3.x train, and Cisco IOS XE Bengaluru 17.6.4 and later releases of the 17.6.x train. From Cisco IOS XE Cupertino 17.9.1, RUM report throttling is applicable to <i>all</i> subsequent releases. | | | |

Behavior Change

• The EWC internal AP or EWC capable AP wired interface did not send packets to subnet 192.168.129.0/24. The AP did not send traffic to 192.168.129.0/24 from wired 0 interface as the static route for 192.168.129.0/24 was automatically configured. Only clients in the subnet 192.168.129.0/24 were affected.

From Cisco IOS XE Cupertino 17.9.3 onwards, the unusable address range has been changed from 192.168.129.0/24 to 192.168.255.252/30. Now, if the wired or wireless clients are on subnet 192.168.255.252/30, the AP does not send packets from the AP interface to the clients.

Interactive Help

The Cisco Catalyst 9800 Series Wireless Controller GUI features an interactive help that walks you through the GUI and guides you through complex configurations.

You can start the interactive help in the following ways:

- By hovering your cursor over the blue flap at the right-hand corner of a window in the GUI and clicking **Interactive Help**.
- By clicking Walk-me Thru in the left pane of a window in the GUI.
- By clicking **Show me How** displayed in the GUI. Clicking **Show me How** triggers a specific interactive help that is relevant to the context you are in.

For instance, **Show me How** in **Configure** > **AAA** walks you through the various steps for configuring a RADIUS server. Choose **Configuration**> **Wireless Setup** > **Advanced** and click **Show me How** to trigger the interactive help that walks you through the steps relating to various kinds of authentication.

The following features have an associated interactive help:

- Configuring AAA
- Configuring FlexConnect Authentication
- Configuring 802.1X Authentication
- Configuring Local Web Authentication
- Configuring OpenRoaming
- Configuring Mesh APs



Note

- If the WalkMe launcher is unavailable on Safari, modify the settings as follows:
 - 1. Choose **Preferences > Privacy**.
 - 2. In the Website tracking section, uncheck the Prevent cross-site tracking check box to disable this action.
 - 3. In the Cookies and website data section, uncheck the Block all cookies check box to disable this action.

Supported Cisco Access Point Platforms

The following Cisco access points are supported in the Cisco Embedded Wireless Controller on Catalyst Access Points network. Note that the APs listed as primary APs can also function as subordinate APs.

Table 2: Cisco APs Supported in Cisco Embedded Wireless Controller on Catalyst Access Points

| Primary AP | Subordinate AP |
|----------------------------|--|
| Cisco Catalyst 9115 Series | Cisco Aironet 1540 Series |
| Cisco Catalyst 9117 Series | Cisco Aironet 1560 Series |
| Cisco Catalyst 9120 Series | Cisco Aironet 1815i |
| Cisco Catalyst 9124AXE/I/D | Cisco Aironet 1815w |
| Cisco Catalyst 9130 | Cisco Aironet 1830 Series |
| Cisco Catalyst 9105AXI | Cisco Aironet 1840 Series |
| | Cisco Aironet 1850 Series |
| | Cisco Aironet 2800 Series |
| | Cisco Aironet 3800 Series |
| | Cisco Aironet 4800 Series |
| | Cisco Catalyst 9115 Series |
| | Cisco Catalyst 9117 Series |
| | Cisco Catalyst 9120 Series |
| | Cisco Catalyst 9124AXE/I/D |
| | Cisco Catalyst 9130 |
| | Cisco Catalyst 9105AXW |
| | Cisco Catalyst 9105AXI |
| | Cisco Catalyst Industrial Wireless 6300 Heavy Duty Series Access Points |
| | Cisco 6300 Series Embedded Services Access Points |

Note The following APs are not supported:

- Cisco Catalyst 9136 Access Points
- Cisco Catalyst 9166 Series Access Points
- Cisco Catalyst 9164 Series Access Points
- Cisco Catalyst 9162 Series Access Points

| Image Type | Supported APs |
|------------|--|
| ap1g4 | Cisco Aironet 1810 Series |
| | Cisco Aironet 1830 Series |
| | Cisco Aironet 1850 Series |
| ap1g5 | Cisco Aironet 1815i |
| | Cisco Aironet 1815w |
| | Cisco Aironet 1540 Series |
| | Cisco Aironet 1850 Series |
| ap1g6 | Cisco Catalyst 9117 Series |
| ap1g6a | Cisco Catalyst 9130 |
| | Cisco Catalyst 9124AXE/I/D |
| ap1g7 | Cisco Catalyst 9115 Series |
| | Cisco Catalyst 9120 Series |
| ap1g8 | Cisco Catalyst 9105 Series |
| ap3g3 | Cisco Aironet 2800 Series |
| | Cisco Aironet 3800 Series |
| | Cisco Aironet 4800 Series |
| | Cisco Aironet 1560 Series |
| | Cisco Catalyst Industrial Wireless 6300 Heavy Duty Series Access Points |
| | Cisco 6300 Series Embedded Services Access Points |

Maximum APs and Clients Supported

Table 4: Scale Supported in Cisco EWC Network

| Primary AP Model | Maximum APs Supported | Maximum Clients Supported |
|----------------------------|--------------------------|------------------------------|
| Cisco Catalyst 9105 AWI | 50 | 1000 |
| Cisco Catalyst 9115 Series | 50 | 1000 |
| Cisco Catalyst 9117 Series | 50 | 1000 |
| Cisco Catalyst 9120 Series | 100 | 2000 |

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| Primary AP Model | Maximum APs Supported | Maximum Clients Supported |
|-------------------------------|--------------------------|------------------------------|
| Cisco Catalyst 9124AXE/I/D | 100 | 2000 |
| Cisco Catalyst 9130 | 100 | 2000 |

If 25 to 100 APs have joined the EWC network, the maximum clients on the EWC internal AP is limited to 20.

Compatibility Matrix

The following table provides software compatibility information:

Table 5: Compatibility Information

| Cisco Embedded Wireless Controller on Catalyst Access Points | Cisco ISE | Cisco CMX | Cisco Catalyst Center |
|---|-----------|-----------|-------------------------------------|
| Cupertino 17.9.x | 3.0 | 10.6.3 | See Cisco Catalyst |
| | 2.7 | 10.6.2 | Center Compatibility Information |
| | 2.6 | 10.6 | |
| | 2.4 | 10.5.1 | |

Supported Browsers and Operating Systems for Web UI

Note The following list of Supported Browsers and Operating Systems is not comprehensive at the time of writing this document and the behavior of various browser for accessing the GUI of the EWC is as listed below.

| Browser | Version | Operating System | Status | Workaround |
|--------------------|----------------------------|---------------------------------|---|--------------------------------------|
| Google Chrome | 77.0.3865.120 | macOS Mojave Version 10.14.6 | Works | Proceed through the browser warning. |
| Safari | 13.0.2 (14608.2.40.1.3) | macOS Mojave Version 10.14.6 | Works | Proceed through the browser warning. |
| Mozilla Firefox | 69.0.1 | macOS Mojave Version 10.14.6 | Works only if exception is added. | Set the exception. |

Note

| Browser | Version | Operating System | Status | Workaround |
|--------------------|----------------|---|---|--------------------------------------|
| Mozilla Firefox | 69.0.3 | macOS Mojave Version 10.14.6 | Works only if exception is added. | Set the exception. |
| Google Chrome | 77.0.3865.90 | Windows 10 Version 1903 (OS Build 18362.267) | Works | Proceed through the browser warning. |
| Microsoft Edge | 44.18362.267.0 | Windows 10 Version 1903 (OS Build 18362.267) | Works | Proceed through the browser warning. |
| Mozilla Firefox | 68.0.2 | Windows 10 Version 1903 (OS Build 18362.267) | Works | Proceed through the browser warning. |
| Mozilla Firefox | 69.0.3 | Windows 10 Version 1903 (OS Build 18362.267) | Works only if exception is added. | Set the exception. |
| Google Chrome | 78.0.3904.108 | macOS Catalina 10.15.1 | Does not work | NA |

Upgrading the Controller Software

This section covers the various aspects of upgrading the controller software.

Note

Before converting from CAPWAP to embedded wireless controller (EWC), ensure that you upgrade the corresponding AP with the CAPWAP image in Cisco AireOS Release 8.10.105.0. If this upgrade is not performed, the conversion will fail.

Finding the Software Version

The following table lists the Cisco IOS XE 17.9.x software for Cisco Embedded Wireless Controller on Catalyst Access Points.

Choose the appropriate AP software based on the following:

- Cisco Embedded Wireless Controller on Catalyst Access Points software to be used for converting the AP from an unified wireless network CAPWAP lightweight AP to a Cisco Embedded Wireless Controller on Catalyst Access Points-capable AP (primary AP)
- AP software image bundle to be used either for upgrading the Cisco Embedded Wireless Controller on Catalyst Access Points software on the primary AP or for updating the software on the subordinate APs or both

Prior to ordering Cisco APs, see the corresponding ordering guide for your Catalyst or Aironet access point.

| Primary AP | AP Software for Conversion from CAPWAP to Cisco EWC | AP Software Image Bundle for Upgrade | AP Software in the Bundle |
|-------------------------|--|--------------------------------------|------------------------------------|
| Cisco | C9800-AP-universalk9.17.09.05.zip | C9800-AP-universalk9.17.09.05.zip | ap1g7 |
| Catalyst 9115 Series | C9800-AP-universalk9.17.09.4a.zip | C9800-AP-universalk9.17.09.4a.zip | |
| | C9800-AP-universalk9.17.09.04.zip | C9800-AP-universalk9.17.09.04.zip | |
| | C9800-AP-universalk9.17.09.03.zip | C9800-AP-universalk9.17.09.03.zip | |
| | C9800-AP-universalk9.17.09.02.zip | C9800-AP-universalk9.17.09.02.zip | |
| | C9800-AP-universalk9.17.09.01.zip | C9800-AP-universalk9.17.09.01.zip | |
| Cisco | C9800-AP-universalk9.17.09.05.zip | C9800-AP-universalk9.17.09.05.zip | ap1g6 |
| Catalyst 9117 Series | C9800-AP-universalk9.17.09.4a.zip | C9800-AP-universalk9.17.09.4a.zip | |
| Series | C9800-AP-universalk9.17.09.04.zip | C9800-AP-universalk9.17.09.04.zip | |
| | C9800-AP-universalk9.17.09.03.zip | C9800-AP-universalk9.17.09.03.zip | |
| | C9800-AP-universalk9.17.09.02.zip | C9800-AP-universalk9.17.09.02.zip | |
| | C9800-AP-universalk9.17.09.01.zip | C9800-AP-universalk9.17.09.01.zip | |
| Cisco | C9800-AP-universalk9.17.09.05.zip | C9800-AP-universalk9.17.09.05.zip | ap1g7 |
| Catalyst 9120 Series | C9800-AP-universalk9.17.09.4a.zip | C9800-AP-universalk9.17.09.4a.zip | |
| Series | C9800-AP-universalk9.17.09.04.zip | C9800-AP-universalk9.17.09.04.zip | |
| | C9800-AP-universalk9.17.09.03.zip | C9800-AP-universalk9.17.09.03.zip | |
| | C9800-AP-universalk9.17.09.02.zip | C9800-AP-universalk9.17.09.02.zip | |
| | C9800-AP-universalk9.17.09.01.zip | C9800-AP-universalk9.17.09.01.zip | |
| Cisco | C9800-AP-universalk9.17.09.05.zip | C9800-AP-universalk9.17.09.05.zip | ap1g6a |
| Catalyst 9124AXE/I/D | C9800-AP-universalk9.17.09.4a.zip | C9800-AP-universalk9.17.09.4a.zip | |
| | C9800-AP-universalk9.17.09.04.zip | C9800-AP-universalk9.17.09.04.zip | |
| | C9800-AP-universalk9.17.09.03.zip | C9800-AP-universalk9.17.09.03.zip | |
| | C9800-AP-universalk9.17.09.02.zip | C9800-AP-universalk9.17.09.02.zip | |
| | C9800-AP-universalk9.17.09.01.zip | C9800-AP-universalk9.17.09.01.zip | |
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Table 7: Cisco Embedded Wireless Controller on Catalyst Access Points Software

| Primary AP | AP Software for Conversion from CAPWAP to Cisco EWC | AP Software Image Bundle for Upgrade | AP Software in the Bundle |
|---------------|--|--------------------------------------|------------------------------------|
| Cisco | C9800-AP-universalk9.17.09.05.zip | C9800-AP-universalk9.17.09.05.zip | ap1g6a |
| Catalyst 9130 | C9800-AP-universalk9.17.09.4a.zip | C9800-AP-universalk9.17.09.4a.zip | |
| | C9800-AP-universalk9.17.09.04.zip | C9800-AP-universalk9.17.09.04.zip | |
| | C9800-AP-universalk9.17.09.03.zip | C9800-AP-universalk9.17.09.03.zip | |
| | C9800-AP-universalk9.17.09.02.zip | C9800-AP-universalk9.17.09.02.zip | |
| | C9800-AP-universalk9.17.09.01.zip | C9800-AP-universalk9.17.09.01.zip | |
| | 1 | | 1 |

Supported Access Point Channels and Maximum Power Settings

Supported access point channels and maximum power settings on Cisco APs are compliant with the regulatory specifications of channels, maximum power levels, and antenna gains of every country in which the access points are sold. For more information about the supported access point transmission values in Cisco IOS XE software releases, see the *Detailed Channels and Maximum Power Settings* document at https://www.cisco.com/ c/en/us/support/ios-nx-os-software/ios-xe-17/products-technical-reference-list.html.

For information about Cisco Wireless software releases that support specific Cisco AP modules, see the "Software Release Support for Specific Access Point Modules" section in the *Cisco Wireless Solutions Software Compatibility Matrix* document.

Guidelines and Restrictions

Internet Group Management Protocol (IGMP)v3 is not supported on Cisco Aironet Wave 2 APs.

Embedded Wireless Controller SNMP configuration is supported in Cisco Catalyst Center.

High memory usage on AP running Embedded Wireless Controller. Enabling **crash kernel** on the AP consumes additional memory on the AP. Hence, if **crash kernel** is enabled, the overall memory usage of the device will increase and will impact the scale numbers. On Cisco Catalyst 9130 Access Points, the memory consumption is a high of 128 MB.

During the EWC HA pair selection, after a power outage, the standby AP fails to come up in the new EWC HA pair. Another EWC capable AP becomes the standby AP and fails to come up as well. To avoid this situation, ensure that the same IP address is enforced on the active or standby APs during HA pair selection.

Interoperability with Clients

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

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

| Hardware or Software Parameter | Hardware or Software Type |
|--------------------------------|--|
| Release | Cisco IOS XE Cupertino 17.9.x |
| Access Points | Cisco Aironet Series Access Points |
| | • 1540 |
| | • 1560 |
| | • 1815i |
| | • 1815w |
| | • 1830 |
| | • 1840 |
| | • 1850 |
| | • 2800 |
| | • 3800 |
| | • 4800 |
| | Cisco Catalyst 9105AX Access Points |
| | Cisco Catalyst 9115AX Access Points |
| | Cisco Catalyst 9117AX Access Points |
| | Cisco Catalyst 9120AX Access Points |
| | Cisco Catalyst 9124AXE/I/D Access Points |
| | Cisco Catalyst 9130AX Access Points |
| Radio | • 802.11ax |
| | • 802.11ac |
| | • 802.11a |
| | • 802.11g |
| | • 802.11n (2.4 GHz or 5 GHz) |
| Security | Open, PSK (WPA2-AES), 802.1X (WPA2-AES) (EAP-FAST, EAP-TLS) WPA3. |
| Cisco ISE | See Compatibility Matrix, on page 7. |
| Types of tests | Connectivity, traffic (ICMP), and roaming between two APs |
| | |

Table 8: Test Configuration for Interoperability

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

Table 9: Client Types

| Client Type and Name | Driver / Software Version |
|---|----------------------------------|
| Wi-Fi 6 Devices (Mobile Phone and Laptop) | |
| 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) |
| Samsung Galaxy S10+ | Android 9.0 |
| Samsung Galaxy Fold 2 | Android 10 |
| Samsung Galaxy Flip Z | Android 10 |
| Samsung Note 20 | Android 10 |
| Laptops | 1 |
| 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) |

| Client Type and Name | Driver / Software Version | |
|---|--|--|
| 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) | |
| Note For clients using Intel wireless cards, we recon if advertised SSIDs are not visible. | nmend you to update to the latest Intel wireless drivers | |
| Tablets | | |
| 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) | |
| Mobile Phones | | |
| 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 | |

| Client Type and Name | Driver / Software Version |
|---------------------------------|---------------------------|
| 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 |
| Oppo Find X2 | Android 10 |
| Redmi K20 Pro | Android 10 |
| Samsung Galaxy S7 | Andriod 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 Experia 1 ii | Android 10 |
| Sony Experia 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 |

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| Client Type and Name | Driver / Software Version | |
|----------------------------------|---------------------------|--|
| Zebra TC70 | Android 6.1 | |
| Zebra TC75 | Android 6.1.1 | |
| Printers | | |
| 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 | |
| Wireless Module | | |
| Intel 11ax 200 | Driver v22.20.0 | |
| Intel AC 9260 | Driver v21.40.0 | |
| Intel Dual Band Wireless AC 8260 | Driver v19.50.1.6 | |

Issues

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Issues describe unexpected behavior in Cisco IOS releases. Issues that are listed as Open in a prior release are carried forward to the next release as either Open or Resolved.



All incremental releases will cover fixes from the current release.

Cisco Bug Search Tool

The Cisco Bug Search Tool (BST) allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The BST is designed to improve the effectiveness in network risk management and device troubleshooting. The tool has a provision to filter bugs based on credentials to provide external and internal bug views for the search input.

To view the details of a caveat, click the corresponding identifier.

Open Caveats for Cisco IOS XE 17.9.5

| Identifier | Headline |
|------------|---|
| CSCwh18613 | The encrypted mesh pre-shared key changes when the password encryption aes command is applied. |

| Identifier | Headline |
|------------|---|
| CSCwh63050 | The controller sends Internet Group Management Protocol (IGMP) queries with an IP address not present in the controller and a controller MAC address. |
| CSCwi04855 | The Cisco Catalyst 9115 AP disjoins the controller repeatedly, with traceback. |
| CSCwi16509 | APs disjoin the contoller displaying the "Invalid radio slot id" error message. Few APs do not join back the controller. |
| CSCwi27380 | The media stream feature does not work. |
| CSCwi28382 | The controller experiences an unexpected reset. |
| CSCwi29636 | The controller crashes due to WNCD process fault. |
| CSCwi42112 | The MAC addresses of wired clients are being learnt from the Cisco Catalyst 9124 MAP port. |
| CSCwi51025 | Cisco Catalyst 9130 AP crashes due to kernel panic. |
| CSCwi53481 | Cisco Catalyst 9300 Series Switches running on the controller loses the SUDI MIC trustpoint during an upgrade. |
| CSCwi55714 | The controller reboots unexpectedly due to a Network Mobility Service Protocol (NMSP) process failure. |
| CSCwi56780 | MAC Authentication Bypass (MAB) is not initiated unless the device is deauthenticated. |
| CSCwi60173 | Security Group Tag (SGT) is not applied to the wireless client in the Software-Defined Access (SDA) fabric. |
| CSCwi62934 | Cisco Catalyst 9120 AP drops large packets towards clients, resulting in poor browsing experience. |
| CSCwi66133 | Cisco Catalyst 9130 AP crashes due to kernel panic. |

Open Caveats for Cisco IOS XE 17.9.4a

For the list of open caveats, click here.

Open Caveats for Cisco IOS XE 17.9.4

For the list of open caveats, click here.

Open Caveats for Cisco IOS XE 17.9.3

| Identif | ier | Headline |
|---------|--------|--|
| CSCw | d69780 | Controller crash is observed due to netflow watchdog and observed CPU HOG in wncmgrd due to scale netflow. |

| Identifier | Headline |
|------------|---|
| CSCwa67566 | Cisco Catalyst 9800 Series Controller/AireOS parity: Rejects clients with wrong PMKID when changing AKM from FT to dot1x to FT again. |
| CSCwd96484 | Controller reloads unexpectedly after generating "wncd" core files. |
| CSCwe16892 | Traceback and reload occurs after detecting a bad magic number in chunk header. |
| CSCwe18012 | Standby controller crashes while saving tbl QoS table. |
| CSCwe38431 | Controller is re-marking SIP packets from CS3 to CS0 in upstream/downstream when voice cac is configured. |
| CSCwe49267 | Controller is not sending GTK M5 packet to 8821 after FT roaming between wncds. |
| CSCwd56391 | Controller is not providing RSSI location data for some of the RFID tags in database. |
| CSCwd86288 | Load average warning is displayed even when Cisco Catalyst 9800-80 Series Controller is healthy. |
| CSCwd96376 | Unable to login to controller GUI/CLI with the user created by Day 0 Wizard. |
| CSCwd98332 | Controller reloads after failing to match the interface ID in the anchor message. |
| CSCwe12057 | QoS Page is not loading when ACL has double quote special character in the name. |
| CSCwe25610 | Client delete initiated. Reason: CO_CLIENT_DELETE_REASON_REMOTE_MOBILITY_DELETE - Mobility Local. |
| CSCwe31270 | Clients stop passing traffic when there is a missing bandwidth limit AAA attribute on the controller. |
| CSCwe39039 | Traceback is observed after provisioning controller from Cisco DNA Center. |
| CSCwe42211 | EWC time offset is not updated on GUI. |
| CSCwc72194 | Cisco Catalyst 9120 AP: Radio core dump: wl0: wlc_check_assert_type HAMMERING. |
| CSCwd46815 | EAP-TLS is failing for the wired clients behind MAP for Cisco 2800, 3800, 4800, 1562, 6300 series APs. |
| CSCwd79502 | Controller is tracking stale entry due to anchored client getting IPv4 and IPv6 in different VLANs. |
| CSCwd90742 | Cisco Catalyst 9120AX AP kernel crash - PC is at rhb_del_interface+0xc. |
| CSCwd90907 | Cisco Catalyst 9164 AP: Crash is observed on radio 1. |
| CSCwd91054 | COS-APs are not encrypting EAP_ID_REQ after M1-M4 and not updating PMKID for dot1x OKC. |
| CSCwe00248 | Poor reassociation behavior observed between Spectralink 84xx series phones and Cisco Catalyst 9136 APs. |

| Identifier | Headline |
|------------|--|
| CSCwe04602 | Cisco Catalyst 9120 AP fails to forward traffic to wireless client for about 60 seconds. |
| CSCwe07802 | Cisco APs such as 2800, 3800, 4800, and 1562 are dropping upstream EAP packets. |
| CSCwe11747 | Cisco Catalyst AX Series APs are decoding EAP request ID incorrectly. |
| CSCwe22861 | AID leak is observed in Flex Cisco Wave 2 APs. |
| CSCwe30473 | Radio firmware crash is observed due to a frozen rc queue. |
| CSCwe31030 | Cisco Catalyst 9105AXW AP is crashing. |
| CSCwe32005 | Cisco Catalyst 9130 AP: Packet loss is observed on Digital Signage device. |
| CSCwe42604 | Cisco Catalyst 9120 AP is dropping 2 bytes from EAP TLS packet causing clients not to join dot1x SSID. |
| CSCwe43294 | Cisco Catalyst 9105AXW AP and Cisco Aironet 1815W Flex RLAN AP does not apply VLAN in the ethernet port after AAA vlan override. |
| CSCwe44216 | AP crash is observed due to kernel panic (PC is at vfp_reload_hw+0x30/0x44). |
| CSCwe44991 | Cisco Catalyst 9105AX AP: Kernel panic crash is observed. |
| CSCwe45300 | Cisco Catalyst 9120 AP: Sending Msg:2 in mode:2 to hostapd failed. |
| CSCwe45894 | AP are not forwarding IGMPv3 query to wireless clients. |
| CSCwe45970 | APs are stuck in UBOOT. |
| CSCwe50033 | Cisco Catalyst 9120AX AP: Clients are continuously disconnecting if more than 10 clients are using MS TEAMS. |

Open Caveats for Cisco IOS XE 17.9.2

| Caveat ID | Description |
|------------|---|
| CSCwc49992 | Timeout during Direct Memory Access (DMA) transaction causes kernel panic in Access Point |
| CSCwd05213 | Kernel panic crash observed when gRPC server process is executed. |
| CSCwd05689 | Cisco Catalyst 9124 Access Point AXI RSSI is 7 dBm to 8 dBm weaker at a distance compared models. |
| CSCwd10570 | Cisco Catalyst 9130 Access Point displays different beacon data-rates for different Basic Servic (BSSIDs). |
| CSCwd22017 | Apple iOS devices are deleted due to IP Learn timeout. |
| CSCwd30828 | Cisco Catalyst 9120 Access Point crashes and reloads due to kernel panic. |
| CSCwd32215 | Clients are stuck in "S_CO_L2_AUTH_IN_PROGRESS" loop when completing authentication |

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| Caveat ID | Description |
|------------|--|
| CSCwd33981 | Kernel panic crash is observed when PC is at "cpuidle_not_available". |
| CSCwc64201 | Cisco Catalyst 9105 Access Point experiences communication gaps when working as a w |
| CSCwc87688 | Cisco Catalyst 9120 Access Point randomly displays high noise level in 5-GHz radio. |
| CSCwd21996 | Cisco Catalyst 9120 Access Point experiences CleanAir sensor crash. |
| CSCwd22430 | Access Points fail to view the backup image after running the "archive download-sw" com |
| CSCwd25931 | Wireless client does not receive IPv6 RA from wired FlexConnect local Dynamic Host Config |
| CSCwd28109 | Cisco Catalyst 9130 Access Point experiences high latency or packet drops during TFTP. |
| CSCwd34908 | Dynamic Channel Allocation (DCA) debug in the controller does not display Slot 2 when t uses channel 36. |

Open Caveats for Cisco IOS XE 17.9.1

There are no open caveats for this release.

Resolved Caveats for Cisco IOS XE 17.9.5

| Identifier | Headline |
|------------|--|
| CSCwf92148 | The Cisco Catalyst 9120 AP dual 5-GHz radio does not disable High Efficiency (HE) in slot 0, when 11AX and slot 1 HE are disabled in all the configured WLANs. |
| CSCwf13804 | Cisco Catalyst 9120 AP fails to onboard new client associations. |
| CSCwf52815 | Cisco Wave 2 APs do not reach the Maximum Transmission Unit (MTU) value of the Internet Control Message Protocol (ICMP). |
| CSCwf53520 | Cisco Aironet 1815 AP encounters a kernel panic crash. |
| CSCwf59348 | The maximum transmit power level for Cisco Catalyst 9105 AP, Cisco Catalyst 9115 AP, and Cisco Catalyst 9120 AP for Ireland (IE) is set at -128 dBm. |
| CSCwf62051 | Cisco Aironet 1815W AP in FlexConnect mode encounters kernel panic, even with mDNS enabled. |
| CSCwf63818 | Cisco Aironet 1832 AP encounters a kernel panic crash while in local mode. |
| CSCwf93992 | Cisco Aironet 2800 Flex AP do not process EAP-TLS fragmented packets if the delay is more than 50ms. |
| CSCwf99932 | Cisco Catalyst 9120 AP Radio1 crashes. |
| CSCwh08625 | Cisco Catalyst 9120 AP experiences a kernel panic crash with specific PC and LR stack trace. |

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| Identifier | Headline |
|------------|---|
| CSCwh09879 | Cisco Wave 2 APs in FlexConnect mode sends assoc-resp failure after changing country code. |
| CSCwh17592 | Cisco Catalyst 9130AXI AP slot 1 does not announce HT/VHT/HE capabilities when dual radio is enabled. |
| CSCwh20306 | When aWIPS is enabled in Cisco Wave 2 APs, hyperlocation breaks. |
| CSCwh20934 | Cisco Catalyst 9120 AP and Cisco Aironet 2800 AP crashes when joining the controller. |
| CSCwh33190 | Cisco Catalyst 9115 AP (Local Mode) crashes due to a kernel panic. |
| CSCwh54762 | Cisco Catalyst 9120 AP kernel panic does not synchronise. |
| CSCwh61011 | Cisco Catalyst 9120 AP and Cisco Catalyst 9115 AP unexpectedly disjoin the controller, not establishing DTLS. |
| CSCwh74663 | Cisco Aironet 2800, or 3800, or 4800, or 1560 AP, or Cisco Catalyst 6300 APs do not send QoS data frames downstream. |
| CSCwe24263 | Cisco Catalyst 9130 AP encounters client-side issues due to inconsistent Tx power levels. |
| CSCwf10839 | VRRP traffic causes the switch port to be down due to storm-control action config on Switch port side. |
| CSCwf13107 | Cisco Catalyst 9105 AP encounters radio crash during longevity test. |
| CSCwf22246 | Cisco Catalyst 9130 AP standardize calculation of mgmt frame count across AP chipsets. |
| CSCwf65794 | Cisco Aironet 1852 AP reloads unexpectedly due to radio failure. |
| CSCwf81866 | Radio 0 Workgroup Bridge (WGB) configuration is not backed up correctly during a Trivial File Transfer Protocol (TFTP) backup of the configuration. |
| CSCwf83292 | Cisco Catalyst 9130 AP does not send DHCP Offer and Acknowledgement (ACK) Over the Air (OTA) through the radio interface to the client. |
| CSCwf83515 | Inconsistent Tx power levels advertised in country information of 802.11 beacon frame. |
| CSCwh20944 | Cisco Catalyst 9120 AP crashed due to kernel panic. |
| CSCwh27425 | Cisco Catalyst 9115AX AP does not forward a part of CAPWAP data packets to the uplink direction. |
| CSCwh29924 | Cisco Catalyst 9105 AP, Cisco Catalyst 9115 AP, Cisco Catalyst 9120 AP WGB antenna-A does not function properly if the configuration is AB-antenna. |
| CSCwh35072 | Cisco Aironet 3800 AP reloads unexpectedly due to FIQ/NMI reset. |
| CSCwh45418 | Cisco Catalyst 9124 AP sends incorrect duplex information through Cisco Discovery Protocol (CDP). |
| CSCwh50681 | A newly created SSID is broadcasted after a wireless upgrade. |

| Identifier | Headline |
|------------|--|
| CSCwh87343 | Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. |
| CSCwf40430 | Cisco Catalyst 9130 AP and Cisco Catalyst 9800 AP encounter issues where mobile devices cannot prompt "incorrect password". |
| CSCwf76119 | Clients are denied wireless access after profiling through Access-Reject. After a Change of Authorization (CoA), clients get network access using PMK cache. |
| CSCwf83132 | The controller and later branches do not send 11r mobility payload. |
| CSCwf86242 | The controller encounters a crash under the Wireless Network Control Daemon (WNCD) process. |
| CSCwf87281 | The controller encounters a segmentation fault due to NULL timer. |
| CSCwh31966 | The controller crashes on the WNCD process during DB abort. |
| CSCwh44793 | Cisco Catalyst 9130 AP fails to join back after changing the AP site tag from the controller on 17.3.6. |
| CSCwh56836 | Cisco Catalyst 9120 AP running Cisco Embedded Wireless Controller (EWC) crashes causing a constant active failover. |
| CSCwh58099 | The controller disconnects a client from Identity Service Engine (ISE), causing a Change of Authorization (CoA) terminate and successful reconnect. |
| CSCwh59109 | The controller encounters an unexpected reload with the reload reason RIF. |
| CSCwh61007 | The controller crashes constantly whenever it provisions multiple APs. |
| CSCwh63050 | The Cisco Catalyst 9800-40 Wireless Controller sends Internet Group Management Protocol (IGMP) queries using client VLAN gateway IP address. |
| CSCwh82872 | The controller encounters an association request drop due to an AP issue with the Cisco Catalyst 9115 AP model in Flex mode SSIDs. |
| CSCwi04855 | The Cisco Catalyst 9115 AP repeatedly joins and disjoins using Catalyst 9800 traceback. |
| CSCwi16104 | The controller encounters an unexpected DBM reset during VLAN list retrieval. |
| CSCvx90714 | The show interface status function displays the maximum link speed (2500) on the auto-negotiation port. |
| CSCwd68141 | The commands show wireless wps rogue AP detail and show wireless wps rogue client detail do not display the containment details for AP types. |
| CSCwe81775 | Apple devices are not deleted properly after sending EAP logoff messages resulting in client elapsing more than 60 seconds for connectivity. |
| CSCwf04815 | The Tx power reduces on AP slots 0 and 1 by one level due to incorrect coverage hole detection. |
| CSCwf13879 | Cisco Catalyst 9800-CL Wireless Controller crashes unexpectedly when users are unable to connect to WiFi and access the controller's GUI. |

| Identifier | Headline |
|------------|---|
| CSCwf30516 | The attribute positions in the show wireless ewc-ap ap image predownload status output should remain fixed regardless of the string size. |
| CSCwf50558 | The controller still runs DCA Aggressive even after disabling the same with command. |
| CSCwf54827 | Controller sends and stops accounts with high session time on AVP Acct-Session-Time. |
| CSCwf60519 | Client struggles to connect to the controller's AP due to an invalid PMKID. |
| CSCwf84639 | Cisco Catalyst 9120 AP XOR mode status is not updated, with the radio mode status still being monitored on the Prime Infrastructure (PI). |
| CSCwf88890 | Cisco Catalyst 9800-L AP GUI encounters a display issue where it is stuck loading in Monitoring > Wireless > AP Statistics > General for a specific AP 3802. |
| CSCwf96138 | The customer (CU) encounters roaming failure in flex mode local switch central authentication case for the iPhone SE 3rd edition. |
| CSCwh08892 | The controller GUI displays a blank page after the user login page due to a malformed user pref json. |
| CSCwh12481 | Cisco Catalyst 9130AXI-E AP does not join the controller with the Tanzania (TZ) country code. |
| CSCwh14232 | The controller does not send Logical Link Control (LLC) or Exchange of Identification (XID) spoofed frames after a mobility event. |
| CSCwh20334 | The controller Change of Authorization (CoA) server key appears blank when entering a new AAA server configuration via Graphical User Interface (GUI). |
| CSCwh33056 | Policy tag description disappears after deleting Wireless Local Area Network (WLAN) location entries in the Cisco Catalyst C9800-80 wireless model. |
| CSCwh57076 | The controller does not forward broadcast ARP requests to the wireless client. |
| CSCwh70511 | The controller Redundancy Management Interface (RMI) flaps with "Closed transport communication channel" messages are observed. |
| CSCwh71608 | Cisco Catalyst 9800-L Mesh AP (MAP) is unable to join through the Root AP (RAP) using Extensible Authentication Protocol (EAP) and flex-bridge site tag. |
| CSCwh88246 | URL Filter not applied after invalid configuration. |
| CSCwh93462 | The controller displays a negative value for APs joined or discovered in the show wireless stats ap loadbalance summary feature. |
| CSCwi02479 | Cisco Catalyst C9800-80 AP unexpectedly reloads due to a corrupted value in a stack, leading to a stack overflow. |
| CSCwi04642 | Cisco Catalyst 9800-80 AP does not save the webauth portal IPV4 address. |
| CSCwi07401 | Cisco IOS-XE controller AP encounters an unexpected reboot while collecting wireless client stats using an EEM script. |

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| Identifier | Headline |
|------------|---|
| CSCwi08147 | The controller Graphical User Interface (GUI) does not allow modifying QoS policies without automatically setting the QoS SSID policy on the policy profile. |
| CSCwh30078 | Cisco Wave 2 APs have multiple processes that crashed while running throughput test. |
| CSCwh59543 | Cisco Catalyst 9120 APs experience a Radio FW_1 crash. |
| CSCwh63270 | Cisco Catalyst 9130AXI APs constantly crash on the Cisco Catalyst 9800-L due to radio failure. |
| CSCwh68360 | Cisco Catalyst 9120 AP encounters a kernel panic crash. |
| CSCwh81332 | Cisco Catalyst 9130 AP encounters kernel panic crash. |
| CSCwh87903 | Cisco Catalyst 9120 AP sends auth_resp failures for specific client mac addresses due to suppressed by MAC filter . |
| CSCwh88100 | Cisco Aironet 3800 AP encounters kernel panic crash. |
| CSCwh92425 | Cisco Catalyst 9130 AP and Cisco Catalyst 9136 AP are not respecting client Power Save mode. |
| CSCwi03442 | Cisco Catalyst 9130 AP do not forward RTP packets downstream to the client. |
| CSCwi07094 | Apple clients are unable to connect to Flex WPA2+WPA3 SSID with Secure Agile Exchange (SAE) enabled and Opportunistic Key Caching (OKC) disabled. |
| CSCwf79175 | Pairwise Master Key ID (PMKID) mismatch between flex central-auth Cisco Wave 2 APs and controller. |
| CSCwh49406 | Cisco Catalyst 9130 AP are spamming syslog controllers with thousands of logs per second. |
| CSCwh62342 | AP FlexConnect fails to respond to a client's mDNS query for airplay service. |
| CSCwh75431 | Cisco Aironet 1815 AP and Cisco Aironet 1830 AP report performance issues across the 5GHz band. |
| CSCwh93655 | Cisco Catalyst 9120 AP displays an unexpected antenna stream of 2x2 in radio at 2.4/5 GHz. |
| CSCwi08442 | The APs are unable to join when Controller-Based Application Recognition (CBAR) is enabled on the controller. |
| CSCwd63620 | The WNCD core encounters a controller crash while modifying rf tag mapping. |
| CSCwe42200 | The controller configured with the radius server address fqdn , does not add the second IP resolved by DNS if the addresses are updated. |
| CSCwh02698 | Cisco Catalyst 9800-40 controller sends incomplete Security Group Tag (SGT) to Identity Service Engine (ISE) 3.1 patch 3. |

| Identifier | Headline |
|------------|---|
| CSCwh59048 | The -A domain access point does not join or have radios down when connected to the controller configured for Guatemala (GT). |
| CSCwh68219 | Cisco Catalyst 91xx AP, connected to the controller, does not process the EAP-TLS server Hello. |
| CSCwh92459 | The controller switches experience frequent reloads and system reports. Despite removing redundancy, both switches still crash. |
| CSCwi10656 | The controller encounters high CPU usage due to a WNCD process running out of session IDs. |
| CSCwe81775 | The controller fails to completely delete Apple devices (macOS 13.2.1 and 12.6.0) after sending Extensible Authentication Protocol (EAP) logoff messages. |
| CSCwh09642 | Zone ID was not created or populated for some of the site tags, resulting in IP theft. |
| CSCwh89539 | The controller displays logging output indicating CAPWAP messages are queued. |
| CSCwi22895 | The controller encounters a crash within RRM service. |
| CSCwh37783 | The Lobby Admin page of the controller GUI does not load. |
| CSCwh22981 | WNCD process crashes. |
| CSCwf68612 | The controller reloads unexpectedly due to segmentation fault in the WNCD process. |
| CSCwf30701 | Cisco Aironet 2800 AP and Cisco Catalyst 9120 AP as supplicants do not initate the EAP process until the static IP address is assigned. |

Resolved Caveats for Cisco IOS XE 17.9.4a

| Identifier | Headline |
|------------|---|
| CSCwh87343 | Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. |
| | For more information, see Security Advisory: cisco-sa-iosxe-webui-privesc-j22SaA4z. |

Resolved Caveats for Cisco IOS XE 17.9.4

| CSCwe01579 | The WNCD process reloads unexpectedly while creating an RRM client coverage. |
|------------|---|
| CSCwd46815 | Cisco Aironet 2800/3800/4800, Cisco Aironet 1562 Series Outdoor APs, Cisco Catalyst IW6300 Series Heavy Duty APs: EAP-TLS fails for the wired clients behind mesh AP. |
| CSCwd60034 | Cisco Aironet 3800 AP radio reloads unexpectedly and displays the 'Beacon Stuck' message. |
| CSCwd79502 | The controller tracks stale entries due to the anchored client receiving IPv4 and IPv6 in different VLANs. |

| CSCwd91054 | Cisco Wave 2 APs do not encrypt EAP_ID_REQ after M1-M4 and do not update PMKID for dot1x OKC. |
|------------|---|
| CSCwe04602 | Cisco Wave 2 APs fail to forward traffic to wireless clients for about 60 seconds in the SDA Fabric WLANs. |
| CSCwe07802 | Cisco Aironet 2800/3800/4800, and Cisco Aironet 1562 Series Outdoor APs drop upstream EAP packets. |
| CSCwe11213 | Cisco Catalyst 9130 AP crashes due to radio failure. |
| CSCwe14729 | The controller reboots due to memory corruption when processing DHCP Reply Option82. |
| CSCwe17593 | Cisco Catalyst 9115 AP workgroup bridge (WGB) stops sending traffic to the root AP after about 60 seconds from its initial connection. |
| CSCwe18012 | The standby controller crashes while saving the QoS table. |
| CSCwe25446 | Unexpected reboot experienced due to the WNCD process. |
| CSCwe27839 | Kernel panic observed on Cisco Catalyst 9120 AP during longevity test. |
| CSCwe30473 | The Cisco Wave 2 APs radio firmware reloads unexpectedly because of the RC queue being stuck. |
| CSCwe38431 | The controller re-marks SIP packets from CS3 to CS0 during upstream or downstream when voice CAC is configured. |
| CSCwe39888 | The RRM process crashes while running the Dynamic Channel Assignment (DCA) algorithm. |
| CSCwe49267 | The controller does not send GTK M5 packet to Cisco Wireless IP Phone 8821 after FT roaming between WNCDs. |
| CSCwe55390 | Cisco Aironet 3802 AP experiences buffering when UP6 or voice traffic less than 500ms after Spectralink phone roam causes audio issues. |
| CSCwe56266 | RRM crash observed on the controller during bootup. |
| CSCwe62694 | The WNCD process goes into an infinite loop on customer network with 382 APs. |
| CSCwe66730 | DCA assigned wrong channels after Dynamic Frequency Selection (DFS) events. |
| CSCwe67580 | No CAPWAP data tunnel formed between OEAP and the controller after changing the public IP address. |
| CSCwe67810 | The Cisco Wave 2 APs in FlexConnect standalone mode disconnects clients on DHCP renewal every 18 minutes. |
| CSCwe70970 | Need an option to prioritize KeepAlives in the redundancy port for High Availability SSO deployment. |
| CSCwe73403 | DHCP Option 82 is not added in WLAN with EoGRE tunnel when SVI interface is down. |

| Resolved Caveats for Cisco IOS XE 17.9.4 | |
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| CSCwe73758 | Cisco Catalyst 9115AX AP unable to send beacons stuck on 5-GHz. |
|------------|---|
| CSCwe74653 | AP does not send the delete reasons to the controller resulting in stale entries. |
| CSCwe74874 | Cisco Catalyst 9120 AP randomly crashes due to kernel panic. |
| CSCwe76818 | Cisco Catalyst 9800-80 Wireless Controller: Syslog configuration does not reflect in the AP. |
| CSCwe81552 | Transmit Power Control (TPC) does not work as expected in the secondary radio operating in the 5-GHz band. |
| CSCwe82892 | Client connected to FlexConnect AP with profile policy is assigned to VLAN 1 instead of a native VLAN. |
| CSCwe85742 | The controller needs to clear PMKID when it fails to ressurect client entry upon N+1 AP failover. |
| CSCwe87973 | Cisco Aironet 3800 AP reloads unexpectedly due to FIQ or NMI reset. |
| CSCwe91394 | AeroScout T15e tags do not report the temperature data due to extra bytes. |
| CSCwe99957 | The controller does not respond to keepalive from AP after an AP disconnect. |
| CSCwf04748 | AP reloads unexpectedly due to CALLBACK FULL Reset Radio. |
| CSCwf07264 | The WNCD process crashes when accessing the Crimson database. |
| CSCwf07605 | Cisco Catalyst 9105AXW AP and Cisco Aironet 1815W AP: The MAC device cannot get an IP address in the Ethernet port after AAA VLAN override. |
| CSCwf15582 | AP radio reloads unexpectedly as the beacon is stuck. |
| CSCwf29742 | Cisco Catalyst 9120 AP: Firmware crashes when multicast and longevity is run with more than 80 clients. |
| CSCwf34100 | When Samsung device (Galaxy Tab S6 Lite - P610K) tries to associate with a Cisco AP, AP sends association rejected with status code 40. |
| CSCwf42824 | Cisco Catalyst 9105AXW APs do not recover after an upgrade. |
| CSCwf44027 | Usernames go missing randomly for wireless 802.1x clients on the controller GUI or console. |
| CSCwf44483 | The Cisco Catalyst 9120AXI AP: 5-GHz radio remains operationally down when -A domain AP joins the controller for country Panama (PA). |
| CSCwf50177 | Cisco Catalyst 9105AXW AP detects a large number of bad blocks. |
| CSCwf54714 | The controller reloads unexpectedly. |
| CSCwf55303 | Active controller reboots when RP link comes up. |
| CSCwf67316 | The Cisco Aironet 2800/3800/4800 Series APs, Cisco Aironet 1560 Series Outdoor APs, and Cisco Catalyst IW6300 Heavy Duty Series APs may not detect radar on the required levels after CAC time. |

| CSCwf71255 | Client traffic fails after AP N+1 failover and policy update. |
|------------|--|
| CSCwf71906 | The controller does not plumb the IPv4 address in IP Source Guard (IPSG) datapath on Central Web Authentication (CWA) SSIDs for clients having single IPv4 address. |
| CSCwb51757 | High channel utilization on 5-GHz radio when channel bonding is set to 40 MHz. |
| CSCwc49970 | Channel 165 on 5-GHz is not allowed on Cisco Aironet 2800, 3800, 4800 APs. |
| CSCwd08068 | Cisco Aironet 1815W AP crashes due to Out-of-Memory (OOM) issues when the WCPD process consumes memory. |
| CSCwd41463 | Cisco Wave 2 APs intermittently stop sending IGMP membership report. |
| CSCwd56391 | The controller does not provide RSSI location data for some of the RFID tags in the database. |
| CSCwd68141 | Rogue containment LRAD is not displayed in the show wireless wps rogue ap detail command output. |
| CSCwd72847 | Cisco Catalyst 9115 AP stops transmitting multicast traffic downstream. |
| CSCwd78416 | Cisco Embedded Wireless Controller sends bursts of Virtual Router Redundancy Protocol (VRRP) traffic. |
| CSCwd86288 | Load average warning is displayed even when Cisco Catalyst 9800-80 Series Wireless Controller is healthy. |
| CSCwd98332 | The controller reloads after failing to match the interface ID in the anchor message. |
| CSCwe00848 | Cisco Catalyst 9105 Series APs reload unexpectedly due to kernel panic. |
| CSCwe06561 | It is not possible to delete the EWC core system report files when AP is changed to CAPWAP mode. |
| CSCwe07297 | Cisco Catalyst 9120 AP reloads unexpectedly due to radio firmware crash. |
| CSCwe15338 | Cisco Catalyst 9120 AP: TX is stuck and AP does not respond to the client's probe or authentication. |
| CSCwe17920 | Cisco Catalyst 9124 AP does not forward traffic to workgroup bridge (WGB) after a session timeout. |
| CSCwe18185 | The day 0 factory image for the new out-of-the-box Cisco Catalyst 9130 AP (VID03) does not contain iox.tar.gz. |
| CSCwe19858 | Cisco Catalyst 9130 AP advertises incorrect local power constraint value in the management frames. |
| CSCwe30429 | Cisco Catalyst 9800-L Series Wireless Controllers display the last reload reason as 'reload' instead of 'Critical process wncd fault'. |
| CSCwe30572 | Cisco Wave 2 AP leaks Network Address Translation (NAT) IP from iOX app. |
| CSCwe32853 | Cisco Catalyst 9124AXI AP does not forward Remote LAN (RLAN) traffic to the upstream network. |

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| CSCwe35285 | The controller deletes client. This could be triggered by the CSCwd91054 fix. |
|------------|--|
| CSCwe42211 | EWC Time Offset is not updated on the GUI. |
| CSCwe42302 | The Inter-Release Controller Mobility (IRCM) client is deleted silently after a profile name mismatch. |
| CSCwe45553 | Reword the error message displayed during one-shot AP Service Pack (APSP) installation to enhance clarity. |
| CSCwe53639 | The controller sends high volume of messages matching 'brain: +(awk sed)'. |
| CSCwe63089 | The LEDs on the APs sporadically turn white. |
| CSCwe71081 | macOS Setup Assistant: Guest issue is observed. |
| CSCwe74895 | The controller crashes when running the AP packet capture. |
| CSCwe76817 | CAPWAP Maximum Transmission Unit (MTU) discovery issue is reported on the APs. |
| CSCwe80617 | Wireless clients are unable to connect to Cisco Aironet 1830 AP after input or output error messages are displayed. |
| CSCwe82287 | AP prevents a Protected Management Frame (PMF) Wi-Fi Protected Access Version 3 (WPA3) client from associating after the client initiates self-deauthentication. |
| CSCwe84267 | Cisco Wave 2 AP in flex N+1 failover mode does not transmit first CAPWAP data keepalive. |
| CSCwe88776 | EWC capable mesh AP waits three minutes in CAPWAP init. |
| CSCwe91264 | AP reloads unexpectedly when PC is at get_partial_node.isra |
| CSCwe92462 | Client Data Rate chart is skewed by management rate rather than data rate. |
| CSCwe95127 | The controller provides incorrect data for certain APs in response to the SNMP query bsnAPIfDot11BSSID. |
| CSCwf09008 | Cisco Catalyst 9800-CL Wireless Controller crashes sporadically due to WNCD process fault. |
| CSCwf09259 | The AP LED flash automatically switches on after reboot. |
| CSCwf11117 | Cisco Catalyst 9120 AP: Root AP deauthenticates workgroup bridge (WGB) continuously after a roam. |
| CSCwf14803 | The controller web UI menu displays cryptic feature names after upgrade. |
| CSCwf22225 | Cisco Catalyst 9120 APs: Standardize calculation of management frame count across AP chipsets. |
| CSCwf22788 | The show wireless client summary detail command output does not display all the IPv6 addresses. |

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| CSCwf42629 | VLAN group support for static IP clients when dot1x SSID have SGT through AAA override. |
|------------|---|
| CSCwf45495 | Cisco Catalyst 9130 APs fail to start CAPWAP due to interface reset every 52s during the DHCP process. |
| CSCwf57471 | The controller GUI does not respond when enabling Application Visibility and Control (AVC) on wireless policy profiles with special characters. |
| CSCwf88588 | The AP manager crashes during ISSU upgrade to 17.9.3 and causes the controller to go into boot loop. |

Resolved Caveats for Cisco IOS XE 17.9.3

| Identifier | Headline |
|------------|---|
| CSCwd40731 | AP reloads due to kernel panic - not syncing: softlockup: hung tasks. |
| CSCwd80290 | IOS AP image validation certificate failed/expired, causing AP join issues. |
| CSCvx32806 | COS-APs are stuck in bootloop due to image checksum verification failure. |
| CSCwc10696 | Regular ASR support field is disabled for supporting clients. |
| CSCwc24994 | Cisco Aironet 3800 series AP crashes due to kernel panic (PC is at vfp_reload_hw+0x30/0x44). |
| CSCwc32182 | Cisco Catalyst AP 1852: Radio firmware crash is observed. |
| CSCwc55632 | Cisco Catalyst 9124 MAP fails to connect to Cisco Aironet 1562 RAP after first reload of MAP. |
| CSCwc75732 | Cisco Aironet 4800 AP: Firmware radio crash is observed. |
| CSCwc89183 | Controller crash is observed on libewlc_client_dpath_svc.so. |
| CSCwd02898 | Cisco Catalyst 9300 Series Switch is not flushing remote MAC address after roaming to a local AP. |
| CSCwd04571 | Memory leak is observed in wncd process when under load. |
| CSCwd06122 | AP Join issues reported due to stale client entries. |
| CSCwd08678 | Timer is not running state client not deleted by controller. |
| CSCwd10570 | Cisco Catalyst 9130 AP: Beacon with incorrect datarates - different rates for same slot on different BSSIDs. |
| CSCwd12120 | Inject path crash is observed on controller switch on IPv6_qos. |
| CSCwd26693 | N+1 HA for FlexConnect is not working. |
| CSCwd30828 | Cisco Catalyst 9120 AP: Kernel panic crash is observed. |
| CSCwd35577 | Redundancy fails during double bit ECC error |

| Identifier | Headline |
|------------|--|
| CSCwd39605 | Cisco Catalyst 9117 AP reloads unexpectedly due to kernel panic at console_unlock+0x320/0x3ac. |
| CSCwd41108 | Cisco Catalyst 9130AXE AP with Dart connectors are stuck at channel 36. |
| CSCwd46721 | IP Theft occurs due to stale client entries in the ODM database. |
| CSCwd47741 | Controller is failing to update dynamic channel assignment (DCA) channels in radio resource management (RRM) are stuck. |
| CSCwd52745 | Cisco Aironet 3802 AP: Kernel crash is observed. |
| CSCwd55757 | Wave 2 APs: Systemd critical process crash - dnsmasq-host.service failed. |
| CSCwd56621 | Controller GUI logging buffer size display is incorrect. |
| CSCwd63516 | Cisco Catalyst 9120 AP fails EAP-TLS port authentication after Plug and Play (PnP) configuration is pushed. |
| CSCwd63665 | Cisco Catalyst 9800-80 Series Wireless Controller shows high CPU utilization in wncd with 200 APS due to WSA. |
| CSCwd63861 | SIGSEGV crash is observed when incrementing roaming statistics. |
| CSCwd69780 | Controller crashes due to netflow watchdog and observed CPU HOG in wncmgrd due to scale netflow. |
| CSCwd77823 | Cisco Catalyst 9130 AP: Radio firmware crash is observed. |
| CSCwd79178 | Cisco Aironet 1840 OEAP: Crash is observed due to radio failure. |
| CSCwd81523 | Cisco Catalyst 9130 AP is not sending EAP_ID_RESP next assoc-req after PMF client tx deauth in middle of EAP handshake. |
| CSCwd90472 | Adding static IP MAC binding to device tracking fails. |
| CSCwd90907 | Cisco Catalyst 9164 AP: Crash is observed on Radio 1. |
| CSCwd90909 | Cisco Catalyst 9115 AP: Crash is observed on Radio 1. |
| CSCwd93773 | Controller should not enable 2nd 5Ghz radio for 9124E with PoE+ (30W). |
| CSCwe00248 | Poor reassociation behavior is observed between Spectralink 84xx series phones and Cisco Catalyst 9136 APs. |
| CSCwe08688 | EWC: Mesh AP factory reset mode cannot be set to EWC after converting it to CAPWAP and factory-reset. |
| CSCwb72924 | FlexConnect client is intermittently unable to reconnect to an AP. |
| CSCwc35049 | Cisco Catalyst 9136 AP and Cisco Catalyst 9166 AP: AP CLI displays continuous logs printing 'Starting CAF Health check service'. |
| CSCwc58794 | The accounting start messages are not sent when the client username is changed. |
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| Identifier | Headline |
|------------|---|
| CSCwc59814 | Disable burst beacon by default, for 11AC Cisco Wave 2 QCA APs. |
| CSCwc81656 | Flash file system corruption is observed on AIR-CAP2702E-K-K9. |
| CSCwc87688 | Cisco Catalyst 9120 AP shows very high noise level on 5-GHz radio. |
| CSCwd00979 | The output of the show wlan all command has incorrect WLAN radio policy information. |
| CSCwd03803 | Cisco Aironet 1815I AP reboot: PC is at edma_poll / LR is at dma_cache_maint_page. |
| CSCwd04025 | PI 3.10.1: Associated APs with controller is showing interface "Half duplex". |
| CSCwd06018 | 802.11r re-auth failed due to invalid Pairwise Master Key ID (PMKID) while doing inter-WNCD roaming. |
| CSCwd12754 | CAPWAP wireless traffic is getting the same Security Group Tag (SGT) as the corresponding incoming wired traffic. |
| CSCwd19631 | Cisco Catalyst 9120 AP cannot operate in mGig when EEE is enabled on switchport. |
| CSCwd21996 | Cisco Catalyst 9120 AP: CleanAir sensor is crashing. |
| CSCwd23681 | Controller fails to update AP config with error "% Error: no ap_name exists". |
| CSCwd32107 | Cisco Aironet 2700 AP: Ignore CAPWAP_PAYLOAD: AP_LAN_CONFIG payload having invalid RLAN port enable value. |
| CSCwd34535 | Cisco Catalyst 9124 AP does not send dual DFS statistics to the controller. |
| CSCwd34890 | Clients are getting deauth immediately after getting IP address in LWA+LocalSW+CentralAuth. |
| CSCwd34908 | Controller is not following the Dynamic Channel Assignment (DCA) sensitivity threshold. |
| CSCwd35393 | Wireless load balancing affinity incorrectly shows AP site tag as default-site. |
| CSCwd46091 | Cisco Catalyst 9105AXI AP is requesting 30 watts instead of 15.4 watts. |
| CSCwd46770 | License: Remove reporting interval (fixed 8 hours) and change Sync report to a user action. |
| CSCwd49166 | Cisco Aironet 3800 AP is consistently reporting high QoS Basic Set Service (QBSS) load. |
| CSCwd49861 | AIRESPACE-WIRELESS-MIB: bsnAPIfType OID documentation incomplete. |
| CSCwd52385 | AP is not initiating gRPC connection to Cisco DNA Center correctly after token expiry. |
| CSCwd52938 | Wired clients behind workgroup bridge (WGB) are not getting IP address in anchor WLAN. |
| CSCwd59921 | Cisco Catalyst 9130 AP is dropping EAP-TLS frames. |

| Identifier | Headline |
|------------|---|
| CSCwd60376 | Cisco Catalyst 9120 AP: Kernel panic is observed with PC is at pci_generic_config_read+0x34/0xa8. |
| CSCwd74123 | Cisco Catalyst 9105 OEAP: Personal SSID is not advertising HE IE in beacon. |
| CSCwd74571 | Wcpd crashes after reusing freed packets. |
| CSCwd77188 | Profile mismatch counter is not increasing. |
| CSCwd77188 | Cisco Aironet 3802 AP: Broadcasts different power values in beacon country IE. |
| CSCwd79645 | Wireless client are unable to communicate after session timeout when AP dropped once during the session. |
| CSCwd83840 | Cisco Aironet 1830 AP: Wireless clients are unable to connect - "writing to fd 27 failed!". |
| CSCwd83841 | EWC: AP is not sending packets from wired interface to subnet 192.168.129.0/24. |
| CSCwd95618 | The reachability timer of the device-tracking binding reachable-lifetime command does not work properly. |
| CSCwd96376 | Unable to login to controller GUI or CLI with the user created by Day 0 Wizard. |
| CSCwd96489 | Tracebacks observed on Cisco Wave 1 AP while writing tags. |
| CSCwd99656 | The snmp-server host command is not filtering characters properly (Fails when name is e.g. TEST\). |
| CSCwe06752 | Controller GUI cannot configure HA/SSO if wireless mgmt interface is not configured. |
| CSCwe11547 | Crash is seen on "Critical process rrm fault on rp_0_0 (rc=139)". |
| CSCwe12057 | QoS Page is not loading when access control list (ACL) has double quote special character in the name. |
| CSCwe13286 | On reload, the EWC capable MAP blocklists RAP for CAPWAP timeout |
| CSCwe18524 | AP filter error in the controller GUI when add operation follows edit/view. |
| CSCwe26846 | Console Flood- check_dot1x_feature_status: config change or tams_init_not_done. |

Resolved Caveats for Cisco IOS XE 17.9.2

| Caveat ID | Description |
|------------|--|
| CSCwa42620 | Cisco Catalyst 9130 Access Point drops packets on-air for Phoenix WinNonlin application. |
| CSCwc09461 | Cisco Catalyst 9120 Access Points send Authentication response frames to clients after long de |
| CSCwc75102 | Conversion of Mobility Express Access Points from ME to CAPWAP mode using DHCP optic |

| Caveat ID | Description |
|------------|--|
| CSCwc78435 | Cisco Catalyst 9130 Access Point sends incorrect channel list in out-of-band DFS event catissues. |
| CSCwd08259 | Cisco Catalyst 9120, 9115, and 9105 Access Points experience radio firmware crash with C releases. |
| CSCvx80422 | An access point fails to forward packets when using 10.128.128.127 or 10.128.128.128 add |
| CSCvz66623 | EAP-TLS clients behind the Mesh Access Point (MAP) experience authentication failure. |
| CSCwb08291 | Cisco Catalyst 9105AXW Access Point introduces latency when clients use RLAN ports. |
| CSCwc05350 | Cisco Wave 2 Access Points: CAPWAP MTU flapping occurs due to asymmetric MTU bet controller and vice-versa. |
| CSCwc10621 | CleanAir statistics are not visible in Cisco Catalyst 9130 Access Points when joined to EW |
| CSCwc38912 | Changing an Access Point site or policy tag to a Flex local switching set intermittently caus failure to local web auth WLANs. |
| CSCwc51894 | Cisco Catalyst 9117 Access Point reloads unexpectedly due to kernel panic with "dp_print_ |
| CSCwc71198 | CAPWAP flapping is observed when VRRPv3 is present in the network. |
| CSCwc73462 | Backslash "\" in the end of the RADIUS servers' shared secret is not allowed for FlexConne |
| CSCwc81341 | Cisco Catalyst 9130 Access Point experiences kernel panic crash in Local mode when full enabled. |
| CSCwc05366 | Wireless clients cannot reach each other as ARP resolution fails when performing dynamic AAA with SSID. |
| CSCwc15533 | Continuous wncmgrd CPUHOG traceback with scale Flexible NetFlow (FNF) mapping to 100% wncd utilization. |
| CSCwc15944 | Multicast data is not sent to clients and few Access Points are unable to join the controller. |
| CSCwc22468 | Client traffic fails when client roams between access points with a transition between dot11 |
| CSCwc42784 | Client fails to connect when protocol based Quality of Service (QoS) is configured. |
| CSCwc57227 | Controller experiences an unexpected reset resulting in a system report containing a wncd o |
| CSCwc59518 | Cisco Catalyst 9800-80 Wireless Controller crashes when using WLAN profile with 32 chan Channel Availability Check (CAC). |
| CSCwb47040 | Controller does not update Radio Frequency Identification (RFID) location properly. |
| CSCwc26819 | Controller does not send LLC or XID spoofed frames after a mobility event. |
| CSCwc36125 | Radio Resource Management (RRM) startup mode gets triggered on every reboot as the cont of the last state. |
| CSCwc41358 | Controller MAC filtering: WLAN profile column displays the WLAN name and description |

| Caveat ID | Description |
|------------|---|
| CSCwc57836 | Restore configuration by HTTP mode does not work in EWC. |
| CSCwc62824 | Controller does not send LLC or XID spoofed frames after a mobility event. |
| CSCwc72047 | Access Points operate in disabled RF profile channels in Cisco IOS-XE 17.6.2 release version. |
| CSCwc76905 | Switch Integrated Security Features (SISF) crash is observed when handling the DHCP message |

Resolved Caveats for Cisco IOS XE 17.9.1

| Caveat ID | Description |
|------------|--|
| CSCwa38847 | Upgrade from CCO profile fails when a guest account (non-Cisco account) is used. |
| CSCwb22347 | Support for special characters in the Image Download profile in EWC. |

Troubleshooting

For the most up-to-date, detailed troubleshooting information, visit the Cisco TAC website at:

https://www.cisco.com/en/US/support/index.html

Go to **Product Support** and select your product from the list, or enter the name of your product. Look under **Troubleshoot and Alerts** to find information about the problem that you are experiencing.

Related Documentation

Information about Cisco IOS XE is available at:

https://www.cisco.com/c/en/us/products/ios-nx-os-software/ios-xe/index.html

All the support documentation for Cisco Catalyst 9100 Access Points are available at: https://www.cisco.com/ c/en/us/support/wireless/catalyst-9100ax-access-points/tsd-products-support-series-home.html

Cisco Validated Designs documents are available at:

https://www.cisco.com/go/designzone

Cisco Embedded Wireless Controller on Catalyst Access Points

For support information, see the following documents:

- Cisco Wireless Solutions Software Compatibility Matrix
- Cisco Embedded Wireless Controller on Catalyst Access Points Software Configuration Guide
- Cisco Embedded Wireless Controller on Catalyst Access Points Command Reference Guide
- Cisco Embedded Wireless Controller on Catalyst Access Points Online Help

Installation guides for Catalyst Access Points are available at:

https://www.cisco.com/c/en/us/support/wireless/catalyst-9100ax-access-points/ products-installation-guides-list.html

For all Cisco Wireless Controller software-related documentation, see:

https://www.cisco.com/c/en/us/support/wireless/catalyst-9800-series-wireless-controllers/ tsd-products-support-series-home.html

Wireless Products Comparison

• Use this tool to compare the specifications of Cisco wireless APs 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

Wireless LAN Compliance Lookup:

https://www.cisco.com/c/dam/assets/prod/wireless/wireless-compliance-tool/index.html

Cisco Access Points–Statement of Volatility

The STATEMENT OF VOLATILITY is an engineering document that provides information about the device, the location of its memory components, and the methods for clearing device memory. Refer to the data security policies and practices of your organization and take the necessary steps required to protect your devices or network environment.

The Cisco Aironet and Catalyst AP Statement of Volatility (SoV) documents are available on Cisco Trust Portal at <u>https://trustportal.cisco.com/c/r/ctp/trust-portal.html#/</u>.

You can search by the AP model to view the SoV document.

Cisco Connected Mobile Experiences

Cisco Connected Mobile Experiences Documentation

Cisco Catalyst Center

Cisco Catalyst Center Documentation

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business impact you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco DevNet.
- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

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