

# Release Notes for Cisco Wireless Controllers and Lightweight Access Points, Cisco Wireless Release 8.8.100.0

**First Published:** 2018-08-17

**Last Modified:** 2020-02-04

## 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*.

## Revision History

**Table 1: Revision History**

Modification Date	Modification Details
January 30, 2019	Added a note about issues related to Cisco Wave 1 AP flash and the solution to address them in the Upgrading Cisco Wireless Release section.
October 30, 2017	Resolved Caveats—Added <a href="#">CSCvh65876</a> , <a href="#">CSCvf66696</a> , <a href="#">CSCve64652</a> , <a href="#">CSCvf66723</a> , <a href="#">CSCvi97023</a> , <a href="#">CSCvj95336</a> , <a href="#">CSCvi49059</a> , <a href="#">CSCvh21953</a>

## Supported Cisco Wireless Controller Platforms

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

- Cisco 3504 Wireless Controller
- Cisco 5520 Wireless Controller
- Cisco 8540 Wireless Controller
- Cisco Virtual Wireless Controller (vWLC) on the following platforms:
  - VMware vSphere Hypervisor (ESXi) Version 5.x and 6.x
  - Hyper-V on Microsoft Servers 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 WLC, Cisco 5520 WLC, and Cisco 8540 WLC.
- Cisco Mobility Express Solution

## Supported Cisco Access Point Platforms

The following Cisco AP platforms are supported in this release:

- Cisco Aironet 700 Series Access Points
- Cisco Aironet 700W Series Access Points
- Cisco AP803 Integrated Access Point
- 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 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

**Note**

- Cisco AP803 is an integrated access point module on the Cisco 800 Series Integrated Services Routers (ISRs). For more information about the stock-keeping units (SKUs) for the AP803 Cisco ISRs, see: <http://www.cisco.com/c/en/us/products/routers/800-series-routers/brochure-listing.html>.
- For more information about 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 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 8.8.100.0

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

**Note**

For complete listing of all the documentation published for Cisco Wireless Release 8.8, see the Documentation Roadmap:

<https://www.cisco.com/c/en/us/td/docs/wireless/doc-roadmap/doc-roadmap-release-88.html>

## Software-Defined Access Features

The following software-defined access (SDA) features are supported in this release:

- **IPv6 Client Support in SDA:** The following IPv6 features are supported in this release:
  - **IPv6 client support:** IPv6 and dual-stack wireless clients can be brought up and serviced by controllers in an SDA framework. The clients can be of Static, Stateful DHCPv6, or SLACC types.
  - **IPv6 client mobility:** IPv6 clients can move across APs within an SDA network and preserve their IPv6 connectivity when roaming. 802.11r Fast Roaming is supported if the client supports it.
  - **IPv6 DNS-based ACLs:** In Release 8.7, this feature was introduced with support for only IPv4. In Release 8.8, this feature is enhanced such that FlexConnect IPv6 ACLs accept internet domain names in addition to IPv6 addresses in their rules. With DNS-based ACLs, clients that are in the preauthentication phase are allowed to connect to the configured URLs.
  - **IPv6 client HA:** In an HA environment, client states are preserved even if there are any controller failures. Also, the access node and intermediate node redundancy mechanisms that are configured in an SDA network strive to provide an additional layer of HA protection to clients.
- **Multicast-to-Unicast of IPv4 VideoStream in SDA:** Multicast-to-unicast video traffic on APs operating in Local mode is supported in SDA.

For more information about deploying VideoStream, see

<https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/112889-cuwns-vidstrm-guide-00.html>.

- **Outdoor AP in SDA:** SDA is supported in Cisco Aironet 1540 and 1560 APs operating in Local mode.
- **Cisco Wave 1 APs as Workgroup Bridges in SDA:** Cisco Wave 1 APs operating as Workgroup Bridges (WGBs) is supported in SDA.




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**Note** Cisco Wave 2 APs as WGBs in SDA is in Early Field Trial state and not yet officially supported.

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For more information about Software-Defined Access, see the following documentation:

- "Software-Defined Access" chapter in the configuration guide: [https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/sda\\_wireless.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/sda_wireless.html)
- *SD-Access Wireless Design and Deployment Guide*: [https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-5/b\\_SD\\_Access\\_Wireless\\_Deployment\\_Guide.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-5/b_SD_Access_Wireless_Deployment_Guide.html)

## One-to-One Mapping of WLAN with EoGRE VLAN

The EoGRE implementation for open WLANs is limited to 10 WLANs per VLAN per controller. This limitation can be overcome by having a one-to-one mapping between open WLANs and EoGRE VLANs.

A one-to-one mapping of WLAN with EoGRE VLAN can be achieved by overriding the EoGRE VLAN configuration within the WLAN. All the existing rules are still applicable; however, if you enable EoGRE VLAN override, the VLAN ID that you specify is overridden with EoGRE VLAN ID, which is configured in the tunnel profile that is mapped to the WLAN.

The order of precedence is as follows:

1. If the AAA override option is enabled on the WLAN, then AAA values are applied.
2. If the EoGRE VLAN configuration override option is enabled, then EoGRE VLAN configuration values are applied on the VLAN ID specified.
3. Network Access Identifier (NAI) matched in the EoGRE profile rule.

You can track this enhancement in the [CSCuy30302](#) caveat.

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/client\\_data\\_tunneling.html#eogre](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/client_data_tunneling.html#eogre).

## Identity PSK with Peer-to-Peer Blocking

The Identity PSK (IPSK) feature is enhanced to configure peer-to-peer (P2P) blocking or bridging. This enhancement is applicable in scenarios where clients or IoT devices with different or same PSKs on the same WLAN have to be prevented from communicating with each other. With this enhancement, it is possible to differentiate private PSK client traffic. This enhancement is supported only in Local mode.

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/wlan\\_security.html#peer-to-peer-blocking-using-psk-tag](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/wlan_security.html#peer-to-peer-blocking-using-psk-tag).

## Lawful Interception of Traffic

This feature is implemented to meet the need for lawful interception of traffic for monitoring purposes.

APs create syslog-based records for the traffic and send these records to the controller. Traffic from both IPv4 and IPv6 protocols is captured. At defined intervals, the controller sends these syslog records to the syslog server.

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/lawful\\_interception\\_of\\_traffic.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/lawful_interception_of_traffic.html).

## Captive Portal Enhancement

It is possible to configure external redirect URL at the AP group level apart from the existing configuration options at the global and WLAN levels. This enhancement is to enable you to configure multiple splash pages for the same SSID.

If both WLAN and AP group configurations do not override the global configuration, then the global configuration is used.

If either WLAN or AP group configuration overrides the global configuration, then the specific redirect URL that is configured is used.

If both WLAN and AP group configurations override the global configuration, the AP group configuration is used because the AP group configuration takes precedence over the WLAN configuration.

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/configuring\\_ap\\_groups.html#captive\\_portal\\_for\\_ap\\_group](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/configuring_ap_groups.html#captive_portal_for_ap_group).

## Policy Enforcement and Monitoring Usage

This feature helps in providing continued data bandwidth to clients after the allocated high-speed data bandwidth has exhausted albeit at lower data rates. This dynamic policy override works on L2 and L3 client authentication.

AP sends the client bandwidth usage report to the controller at a set duration. The controller sends these reports to the accounting server at a set duration. When the client exhausts the data limit, the AAA server sends a change of authorization (CoA) request. The controller changes the policy parameters after receiving confirmation from the AAA server.

The policy change and data rate change occur without disconnecting the client.

This feature is supported in the following modes:

- Central Switching; Local and Bridge mode
- Local Switching; FlexConnect and Flex+Bridge mode

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/wlan\\_security.html#policy-enforcement-quota-mgmt](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/wlan_security.html#policy-enforcement-quota-mgmt).

## Application Visibility and Control Enhancements

### NBAR2 Protocol Pack Upgrade

Before Release 8.8, controllers supported NBAR engine version 23, and the default protocol pack version was 19.1. To support more applications on the controllers, especially Wi-Fi Calling, Zoom, and so on, Release 8.8 includes NBAR engine version 31 and protocol pack version 37 for controllers; for Cisco Wave 1 APs, the NBAR engine is version 23 and the protocol pack version is 14; for Cisco Wave 2 APs, the NBAR engine is version 35 and the protocol pack version is 33.



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**Note** Enabling AVC in FlexConnect mode in an environment wherein both Wave 1 and Wave 2 APs are present will break AVC policies.

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### Default DSCP Value for AVC Profile

Before Release 8.8 with AVC enabled, you could override DSCP values for only those application flows that were configured on an AVC profile. For the application flows that were not configured, no action was performed and DSCP was left intact. The maximum number of application rules that the AVC profile can contain is 32. For managed service, to control and rewrite DSCP values (example with DSCP 0) for all flows that are not presented on the AVC profile is not possible.

In Release 8.8, the new enhancement includes a new *default-class* rule that you can use to override the DSCP values for all application flows in which AVC rule is not configured. The goal of this enhancement is to protect the network for all flows with unwanted or controlled DSCP values.

This enhancement comes with the following restrictions:

- Only the start of an application flow is captured.
- Supported only for marking. Rate limit and drop are not supported.
- Default DSCP works only if AVC is in enabled state.
- An AVC profile can support up to 32 rule, including the *default-class* rule. If the *default-rule* is configured, you can configure up to 31 rules.
- Multicast and broadcast flows are not supported.
- IPv6 is not supported in AVC.
- Cascading of rules is not supported, which means that for the same flow, it is not possible to have rate limiting and marking. Therefore, if rate limiting is performed for a flow, *default* marking is not performed on the flow.



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**Note**

- The *default-class* setting overwrites all DSCP values for all the application flows that are not configured when the profile is applied to a WLAN.
- If you have an AVC profile with *default-class* setting and you downgrade from Release 8.8 to an earlier release, the *default-class* setting is still present in the controller, although the earlier releases do not support this setting.

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## Cisco Wave 2 AP Features

Support is added for the following features in Wave 2 APs in this release:

- Flex+Mesh
- CAPWAP IPv6
- Auto-LAG in FlexConnect mode



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**Note** This feature is supported only in Cisco Aironet 2800, 3800, and 4800 Series APs.

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- USB port as a power source

Cisco Aironet 2800 and 3800 Series APs have a USB port that can act as a source of power for some USB devices. The power can be up to 2.5W; if a USB device draws more than 2.5W of power, the USB port shuts down automatically. For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/ap\\_power\\_and\\_lan\\_connections.html#info\\_ap\\_usb\\_port\\_as\\_power\\_source](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/ap_power_and_lan_connections.html#info_ap_usb_port_as_power_source).

- DHCP on root access points

Internal DHCPv4 server is supported in root access points (RAPs) operating in Flex+Mesh mode. This feature is supported only in Cisco Aironet 1540 and 1560 APs.

Network Address Translation (NAT) and Port Address Translation (PAT) in RAPs operating in Flex+Mesh mode is coupled with the internal DHCP server support. NAT/PAT on RAPs start when you start the DHCP server and stops when you stop the DHCP server.

## Miscellaneous Enhancements

- **Disabling AP fallback to DHCP when configured for static IP addresses:** Cisco APs can fall back from static IP mode to DHCP mode when they are not able to associate with a controller. While it is useful to get the APs to fall back to DHCP mode so that they continue to serve clients by getting a new IP address, the APs retain their new IP address until they are rebooted. In a network where the APs are assigned static IP addresses, the DHCP IP addresses prevent the APs from being monitored. To address this issue, you can choose to retain the static IP addresses for APs by disabling the fallback to the DHCP option.

This enhancement is tracked in [CSCua58662](#).

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/managing\\_aps.html#retaining\\_static\\_ip\\_on\\_ap\\_cli](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/managing_aps.html#retaining_static_ip_on_ap_cli).

- **ARP debugs:** In Release 8.8, when ARP debugs are enabled along with debugging of clients, it is possible to filter and view ARP debugs for a specific client instead of listing all the ARP transactions.

This enhancement is tracked in [CSCun60412](#).

- **Logging of configuration history:** You can view the logging buffer that is saved on the last reset or power cycle of the controller by entering this command:

**show logging config-history**

You can also retrieve the details of all the **config** commands that are executed in the current and up to two previous resets through a support bundle.

This enhancement is tracked in [CSCur14475](#).

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/debugging\\_on\\_cisco\\_wireless\\_controllers.html#ID200](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/debugging_on_cisco_wireless_controllers.html#ID200)

- **FlexConnect client exclusion list:** You can view the FlexConnect clients in the exclusion list of an AP locally by entering this command on the Wave 2 AP console:

**show flexconnect client exclusion-list**

This enhancement is tracked in [CSCux41096](#).

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/wlan\\_security.html#config-client-exclusion-policies](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/wlan_security.html#config-client-exclusion-policies).

- **SFP type information:** You can view the SFP type information on Cisco 5520 and 8540 controllers by entering this command:

**show port sfp-info**

This enhancement is tracked in [CSCva88371](#).

- **Platform information in a debug session:** In the controller CLI, at the start of a debug session, a message is displayed indicating the platform details for which the debug session is being started. This message contains the following information: timestamp, controller model, software release information, serial number of the controller model, and the hostname.

This enhancement is tracked in [CSCvf03977](#).

For more information, see

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b\\_cg88/debugging\\_on\\_cisco\\_wireless\\_controllers.html#ID200](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-8/config-guide/b_cg88/debugging_on_cisco_wireless_controllers.html#ID200)

- **Extension of | include filtering:** Before this release, some **show** commands on the Wave 2 AP console allowed filtering using the **| include** option. In Release 8.8, this option is extended to all the **show** commands.

This enhancement is tracked in [CSCvg42570](#).

- **IPv6 in Flex+Mesh mode:** IPv6 is supported in Flex+Mesh mode.
- **DHCP with NAT:** DHCP is supported in APs with NAT (only IPv4).
- **Federal certification requirements:** To meet federal certification requirements wherein, in a High Availability scenario, data between active and standby controllers must be encrypted. This requirement is achieved by doing IPsec encryption with certificates on the HA controllers.

## Early Field Trial Features

The following features are in Early Field Trial state:



**Note** These features are not yet officially supported and there will be no assistance from Cisco's Technical Assistance Center.

- Controller Telemetry:
  - Wireless Service Assurance.

For more information about configuring Wireless Service Assurance, see the applicable *Cisco DNA Center User Guide* at:

<https://www.cisco.com/c/en/us/support/cloud-systems-management/dna-center/products-user-guide-list.html>.

- Intelligent Capture
- Cisco Wave 2 APs as Workgroup Bridges

## Software Release Types and Recommendations

*Table 2: 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 3: Upgrade Path to Cisco Wireless Release 8.8.x

Current Software Release	Upgrade Path to Release 8.8.x
8.2.x	You must upgrade to an 8.5.x release and then upgrade to Release 8.8.x.
8.3.x	You must upgrade to an 8.5.x release and then upgrade to Release 8.8.x.
8.4.x	You must upgrade to an 8.5.x release and then upgrade to Release 8.8.x.
8.5.x	You can upgrade directly to Release 8.8.x.
8.6.x	You can upgrade directly to Release 8.8.x.
8.7.x	You can upgrade directly to Release 8.8.x.

## Upgrading 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.



**Caution** Before you upgrade to this release, we recommend that you go through the following documents to understand various issues related to Cisco Wave 1 AP flash and the solution to address them:

- Field Notice: <https://www.cisco.com/c/en/us/support/docs/field-notices/703/fn70330.html>
- Understanding Various AP-IOS Flash Corruption Issues: <https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-lan-wlan/213317-understanding-various-ap-ios-flash-corru.html>

## Guidelines and Limitations

- Legacy clients that require RC4 or 3DES encryption types are not supported in Local EAP authentication.
- If you downgrade from Release 8.8.x to Release 8.7, FlexConnect IPv6 ACLs are shown to be in their FlexConnect group.
- If you have an AVC profile with *default-class* setting and you downgrade from Release 8.8.x to an earlier release, the *default-class* setting is still present in the controller, although the earlier releases do not support this setting.
- If you want to downgrade from Release 8.8.x to Release 8.6.101.0 and if you have Wave 2 APs in Flex+Bridge mode, ensure that these APs are changed to Bridge mode before you perform the downgrade; else, the APs will have incorrect configuration after the downgrade process.
- 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 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:

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TFTP failure while storing in flash
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  - 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 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 controller or any AP during the upgrade process. If you do this, the software image might get corrupted. Upgrading 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 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.
- From Release 8.3 or a later release, ensure that the configuration file that you back up does not contain the < or > special characters. If either of the special characters is present, the download of the backed up configuration file fails.

## Upgrading Cisco 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:
- a) Browse to the Software Download portal at: <https://software.cisco.com/download/home>.
  - b) Search for the controller model.
  - c) Click **Wireless LAN Controller Software**.
  - d) 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.
  - e) Click the filename *<filename.aes>*.
  - f) Click **Download**.
  - g) Read the Cisco End User Software License Agreement and click **Agree**.
  - h) Save the file to your hard drive.
  - i) 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, or SFTP 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**, or **SFTP**.
- Step 8** In the **IP Address** field, enter the IP address of the TFTP, FTP, or SFTP server.
- Step 9** If you are using a TFTP server, the default value of 10 retries for the **Maximum Retries** field, and 6 seconds for the **Timeout** field should work correctly without any adjustment. However, you can change these values, if required. To do so, enter the maximum number of times the TFTP server attempts to download the software in the **Maximum Retries** field and the amount of time (in seconds) for which the TFTP server attempts to download the software, in the **Timeout** field.
- Step 10** In the **File Path** field, enter the directory path of the software.
- Step 11** In the **File Name** field, enter the name of the software file *<filename.aes>*.
- Step 12** If you are using an FTP server, perform these steps:
- In the **Server Login Username** field, enter the username with which to log on to the FTP server.
  - In the **Server Login Password** field, enter the password with which to log on to the FTP server.
  - In the **Server Port Number** field, enter the port number on the FTP server through which the download occurs. The default value is 21.
- Step 13** Click **Download** to download the software to the 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 14** After the download is complete, click **Reboot**.
- Step 15** If you are prompted to save your changes, click **Save and Reboot**.
- Step 16** Click **OK** to confirm your decision to reboot the controller.
- Step 17** If you have disabled the 802.11 networks, reenable them.
- Step 18** (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 Version 3.0(4d) 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 CIMC 3.0(4d) images are available at the following locations

Table 4: CIMC Utility Software Image Information

Controller	Link to Download the CIMC Utility Software Image
Cisco 5520 Wireless Controller	<a href="https://software.cisco.com/download/home/286281345/type/283850974/release/3.0%25284d%2529">https://software.cisco.com/download/home/286281345/type/283850974/release/3.0%25284d%2529</a>
Cisco 8540 Wireless Controller	<a href="https://software.cisco.com/download/home/286281356/type/283850974/release/3.0%25284d%2529">https://software.cisco.com/download/home/286281356/type/283850974/release/3.0%25284d%2529</a>

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)

Table 5: Open Caveats for Release 3.0(4d)

Caveat ID	Description
<a href="#">CSCvj80941</a>	After upgrading CIMC to 3.04d, only after power reset, UCS-based controller is coming up.
<a href="#">CSCvj80915</a>	Not able to logon to the CIMC GUI with the username and password that are configured from the controller.

Table 6: Resolved Caveats for Release 3.0(4d)

Caveat ID	Description
<a href="#">CSCvd86049</a>	<p><b>Symptom:</b> The system will stop working or reboot during OS operation with PROCHOT, MEMHOT, and DMI Timeout-related events reported in the System Event Log (SEL).</p> <p><b>Conditions:</b> C220-M4 or C240-M4</p> <p><b>Workaround:</b> No workaround is available.</p> <p>This bug fix changes the default BIOS option for ASPM (Active State Power Management) from 'L1 only' to 'Disabled', and the ASPM setting can no longer be modified. This change was made to help increase system stability and eliminate some system crash scenarios.</p>

Caveat ID	Description
CSCvf78458	<p><b>Symptom:</b> The system will stop working or reboot during OS operation with PROCHOT, MEMHOT, and DMI Timeout-related events reported in the System Event Log (SEL).</p> <p><b>Conditions:</b> C220-M4 or C240-M4</p> <p><b>Workaround:</b> No workaround is available.</p> <p>This bug fix changes the BIOS option "Package C-State limit" default value from C6 Retention to C0/C1 to help increase system stability and eliminate some crash scenarios.</p> <p>Once upgraded, reset the BIOS settings to default or manually change Package C-State limit to C0/C1.</p>

## Interoperability with Other Clients

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

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

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

Hardware or Software Parameter	Hardware or Software Configuration Type
Release	8.8.x.
Cisco Wireless Controller	Cisco 5520 Wireless Controller
Access Points	AIR-CAP3802E-B-K9, AIR-AP1852E-B-K9
Radio	802.11ac, 802.11a, 802.11g, 802.11n (2.4 GHz or 5 GHz)
Security	Open, PSK (WPA-TKIP-WPA2-AES), 802.1X (WPA-TKIP-WPA2-AES) (
RADIUS	Cisco ACS 5.3, Cisco ISE 2.2, Cisco ISE 2.3
Types of tests	Connectivity, traffic (ICMP), and roaming between two APs

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

**Table 8: Client Types**

Client Type and Name	Driver / Software Version
<b>Laptops</b>	
Acer Aspire 15 Windows 8 Home	Qc Atheros Qca9377 11.0.0.492
Acer Aspire E15 Windows 8	Qc Atheros Qca9377 15.1.1.1
Acer Aspire E 15 Windows 8.1	QC Atheros Qca9377 11.0.0.492
Acer Aspire E15 Windows 8.1 Pro	Qc Atheros Qca9377 11.0.0.492

<b>Client Type and Name</b>	<b>Driver / Software Version</b>
Dell Inspiron 15 7569 Windows 10 Home	Ntel Ac 3165 18.32.0.5
Dell Latitude 6430 Windows 8.1 Pro	Intel 6205w8 15.16.0.2
Dell Latitude E5430 Windows 7	Intel Centrino N 6205 15.17.0.1
Dell Latitude E5450 Windows 7 Professional	Intel 7260 18.33.6.2
Dell Latitude E5540 Windows 7	Intel Dualband Ac7260 1.566.0.0
Dell Latitude E6430 Windows 7 Professional	Intel Centrino Ultn6300 15.9.2.1
Dell Latitude E6430 Windows 7 Professional	Intel 6250 15.11.0.7
Dell Latitude E6430 Windows 7 Professional	Intel 3160 6.30.223.215
Dell Latitude E7450 Windows 7 Professional	Broadcom 1560 15.1.1.1
Dell Latitude Windows 8.1 Pro	Intel Ac7260 18.33.3.2
Fujitsu Lifebook E556 Windows 10 Pro	Intel 8260 11.0.0.492
Lenovo Yoga 460 Windows 10 Pro	Intel Ac8260 19.1.0.4
Macbook Air Mac OS Sierra 10.12.3	Broadcom Bcm43xx 1.0 6.30.225.29.1
Macbook Air MacOS Sierra 10.12.6	Broadcom Bcm43xx 1.0 7.21.171.68.1a4
Macbook Air OS X Yosemite (10.10.5)	Broadcom Bcm43xx 1.0 7.15.166.24.3
Macbook Mac OS Sierra 10.12 Beta	Broadcom Bcm43xx 1.0 7.21.149.34.1a7
Macbook Pro Mac OS Sierra 10.12.4	Broadcom Bcm43xx 1.0 7.21.171.68.1a4
Macbook Pro OS X 10.8.5	Broadcom Bcm43xx 1.0 5.106.98.100.17
Macbook Pro Retina Mac OS Sierra 10.12.3	Broadcom Bcm43xx 1.0 7.15.166.24.3
<b>Tablets</b>	
Apple iPad	iOS 9.3.1
Apple iPad mini	iOS 12.0
Apple iPad mini 2	iOS 10.3.1
Apple iPad Air	iOS 10.1.1
Apple iPad Air 2	iOS 10.2.1
<b>Mobile Phones</b>	
Apple iPhone 4S	iOS 8.0
Apple iPhone 5	iOS 10.3.1
Apple iPhone 5C	iOS 9.3.2
Apple iPhone 6 Plus	iOS 12.0
Apple iPhone SE	iOS 10.3.1
AT100	Toshiba Android 4.0.4

Client Type and Name	Driver / Software Version
Cisco 7925G-EX	CP7925G-1.4.8.4.LOADS
Cisco 7926G	CP7925G-1.4.8.4.LOADS
Cisco 8821	sip8821.11-0-4-14
ET1	Android VERSION 2.3.4
ET5	Android 5.1.1
LG-D855	LG Android 5.0
Mediapad X1 7.0	Huawei Android 4.4.2
Moto X 2nd Gen	Motorola Android 5.0
One Plus One	One Plus Android 4.3
One Plus Three	One Plus Android 6.0.1
Samsung Galaxy S4	Samsung Android 4.2.2
Samsung Galaxy S4	Samsung Android 5.0.1
Samsung Galaxy S6	Samsung Android 7.0
Samsung Galaxy S6	Samsung Android 6.0.1
Samsung Galaxy S8	Samsung Android 7.0
Samsung Tab Pro	Samsung Android 4.4.2
SM-P600	Samsung Android 4.4.2
SM-T520	Samsung Android 4.4.2
TC510K	Zebra Android 6.0.1
TC8000	Zebra Android 4.4.3
8742	Spectralink Android 5.1.1
8744	Spectralink Android 5.1.1 2.5.0

## Key Features Not Supported in Cisco WLC Platforms

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



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

## Key Features Not Supported in Cisco 3504 WLC

- Cisco WLAN Express Setup Over-the-Air Provisioning

- Mobility controller functionality in converged access mode
- VPN Termination (such as IPsec and L2TP)

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

- 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 WLC

- 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 Cisco WLC 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
- Cisco WLC integration with Lync SDN API
- Cisco OfficeExtend Access Points

## Key Features Not Supported in Access Point Platforms

This section lists the features that are not supported on various Cisco Aironet AP platforms:

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

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

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/b\\_feature\\_matrix\\_for\\_802\\_11ac\\_wave2\\_access\\_points.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/b_feature_matrix_for_802_11ac_wave2_access_points.html).

**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</li> <li>• Mesh mode</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> <li>• Internet Group Management Protocol (IGMP)v3</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</li> </ul> <p><b>Note</b> WPA +TKIP and TKIP + AES protocols are supported.</p>
Quality of Service	Cisco Air Time Fairness (ATF)

FlexConnect Features	<ul style="list-style-type: none"> <li>• Split Tunneling</li> <li>• PPPoE</li> <li>• Multicast to Unicast (MC2UC)</li> </ul> <p><b>Note</b> VideoStream is supported</p> <ul style="list-style-type: none"> <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>
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**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

## Caveats

### Open Caveats

*Table 12: Open Caveats*

Caveat ID Number	Description
<a href="#">CSCvg76166</a>	Channel Utilization changes to 0% on Wave 1 Marvell APs
<a href="#">CSCvg91770</a>	1810W AP stops to send data frame intermittently
<a href="#">CSCvg93221</a>	802.11AC wave2 outdoor APs do not support all MESH modes for multicast
<a href="#">CSCvh81618</a>	When adding a member to RF Group with Static Leader 8510, group size exceeded error
<a href="#">CSCvi06408</a>	Wave 1 AP failed to send DHCP packet to wired side under VLAN Override
<a href="#">CSCvi38539</a>	AP stops forwarding IPv6 Router Advertisements to random clients
<a href="#">CSCvi48503</a>	Standby WLC continuously reboots with "Reason: XMLs were not transferred from Active to Standby"
<a href="#">CSCvi55945</a>	8.8:NBN AP Neighbor Info show backhaul CH missing vs. CLI for 40MHz backhaul and Rate mismatched

Caveat ID Number	Description
<a href="#">CSCvi69688</a>	8.8 - No of RUN state clients in standby is more than Active Controller.
<a href="#">CSCvi77694</a>	WLC leaks dyn interface traffic from untrusted VLAN to trusted VLAN while in cntrl webauth req state
<a href="#">CSCvi80205</a>	ETSI domain Compliance and Throughput testing
<a href="#">CSCvi82147</a>	Failed to set Country Codes when WLC has redundant country codes CA2, KR, PH2, US2, USL, USX
<a href="#">CSCvi82746</a>	Cisco WLC running 8.5.120.0 release reloads unexpectedly with Task Name SISF BT Process
<a href="#">CSCvi92170</a>	Cisco 1800 series APs falsely shows 100% channel utilization on 5GHz
<a href="#">CSCvi96793</a>	R0KHid and R1KHID going zero in assoc response for iPhone on 8.6 ME, causing connectivity issue.
<a href="#">CSCvi98368</a>	AP 1815I stops working due to kernel panic in radio driver, PC is at ieee80211_node_unauthorize+0x48
<a href="#">CSCvi98415</a>	AP 1815I stopped working due to kernel panic during radio reset in 8.3.140.0
<a href="#">CSCvj06563</a>	AIROS WLC crashed at mmListenFsm with config mesh subset-channel-sync enable in IRCM with ewlc
<a href="#">CSCvj06837</a>	MAP Wave 1 AP mesh security failures after roaming between 2 parents
<a href="#">CSCvj08387</a>	WLC stopped working on spamApTask6
<a href="#">CSCvj11716</a>	WLC failed to apply flex-acl returned from RADIUS server - policing not working, client passing traf
<a href="#">CSCvj23235</a>	WLC: Need to change active fall-back of AAA probing w/probes of 'dead' RADIUS server
<a href="#">CSCvj23415</a>	8.8: Wave 2 or Wave 1 AP cannot swap image after pre-download image completed successfully
<a href="#">CSCvj29870</a>	8.8:Space detected on UI but CLI cannot for "flexconnect acl url-domain url"/"ext-webauth-url"
<a href="#">CSCvj30568</a>	1832 AP stopped working due to beacon stuck, QCA case 03406780
<a href="#">CSCvj31604</a>	8.8:"<IP addr> should be non zero and must have contiguous ones" but 0.0.0.0 can/no sense for ones
<a href="#">CSCvj32199</a>	SSH/Management Access of Primary WLC not possible when HA failover occurs in 8.5.120.0
<a href="#">CSCvj34879</a>	AP reporting MD5 mismatch on poller script after running all flash bug fixes
<a href="#">CSCvj42758</a>	RADIUS auth server insertion not proper with RADIUS DNS returning multiple entries

Caveat ID Number	Description
<a href="#">CSCvj43325</a>	AP1850 running 3.7.5 is deauth client when received 2 assoc_req with same snonce
<a href="#">CSCvj50741</a>	8.8: Clients get disconnected while AP joining back the WLC
<a href="#">CSCvj52635</a>	ME Subordinate AP may send Disassociation after primary AP failover
<a href="#">CSCvj53235</a>	Local policy using HTTP device profiling does not get applied to client.
<a href="#">CSCvj56689</a>	8.5 MR3: AP1850 stopped working due to OOM
<a href="#">CSCvj58436</a>	OID not increasing error when doing an IPv6 host query
<a href="#">CSCvj58606</a>	8.8 ME: EoGRE Gateway entry gets removed from the AP when the tgw is down
<a href="#">CSCvj60609</a>	vWLC Webauth not working
<a href="#">CSCvj65449</a>	AIR-AP1562D-E-K9 with regulatory domain Kazakhstan does not join the WLC
<a href="#">CSCvj65592</a>	Client static DNS ip support for openDNS
<a href="#">CSCvj69083</a>	Guest user is removed from Standby controller after WLC reset
<a href="#">CSCvj69417</a>	Wave 1 AP sends ACK at supported data rates
<a href="#">CSCvj70836</a>	"show system slabtop" command not showing the system details
<a href="#">CSCvj72076</a>	AP1800 drops a lot of packets
<a href="#">CSCvj72136</a>	Barbados AP (2800/3800) loses its default gateway reachability
<a href="#">CSCvj73077</a>	1810W APs may have power denied from older POE 802.3af switches
<a href="#">CSCvj73809</a>	WLC: Invalid parameter specified error in CLI when trying config change
<a href="#">CSCvj74163</a>	Monitor mode should not be allowed for AP1542
<a href="#">CSCvj74263</a>	IPsec profile showing junk characters in show logging
<a href="#">CSCvj76009</a>	Alpha 3800/2800 multiple WSA Agent process running, that might be the cause of OOM trigger
<a href="#">CSCvj76143</a>	EoGRE tunnel profile VLAN is allowing to add alphanumeric values instead of numeric values
<a href="#">CSCvj79479</a>	Cisco 8500 Wireless LAN Controller Web Interface Unvalidated Redirect Vulnerability
<a href="#">CSCvj79841</a>	3802 AP unexpected reboot on 8.2.167.1
<a href="#">CSCvj79842</a>	WLC does not reply keepalive and causes APs to drop line
<a href="#">CSCvj80129</a>	Wave 1 AP uses invalid CAPWAP-Data keep-alive source port
<a href="#">CSCvj80359</a>	Stale client entries exist in temporary data in Active WLC

Caveat ID Number	Description
<a href="#">CSCvj80688</a>	Web: Remove APs or add APs in AP group pointing to main page if you try to add or remove APs
<a href="#">CSCvj80969</a>	AP1530:8.3.141.153 5ghz 40 and 20Mhz Upstream Minimal TP drop is seen for Smaller packet size
<a href="#">CSCvj81510</a>	When saving config on 1815I, UI throws error which does not tell the user about why it is failing
<a href="#">CSCvj82636</a>	Client getting redirected to internal webauth instead of External webauth URL configured on AP Group
<a href="#">CSCvj83144</a>	Able to configure the WLC interface without assigning any port from virtual wlc (vWLC) GUI
<a href="#">CSCvj83372</a>	AP 1852 showing irregular data usage
<a href="#">CSCvj83659</a>	8.8:Queueing WMI command back to TxQueue and buff leak messages on flex ap console
<a href="#">CSCvj85461</a>	Disabling Data Rates of 6 or below disables 11 Mbps as well on Mobility Express UI
<a href="#">CSCvj86238</a>	WLC stops working as emWeb spikes to 100% CPU usage after executing "show run-config"
<a href="#">CSCvj86324</a>	1700 AP stopped working multiple times - SYS-2-CHUNKBADMAGIC: Bad magic number in chunk header
<a href="#">CSCvj88091</a>	custom-web ext-webauth-url getting corrupted with customer configuration
<a href="#">CSCvj88099</a>	UsmDb:HA_send_usmDbSxpPeerConnectionSet, ErrType:Apply Config failed, Reason:19
<a href="#">CSCvj88984</a>	FlexConnect efficient upgrade disables when invalid configuration is provided
<a href="#">CSCvj91539</a>	3800 AP stops working at sxpd process during SGT-IP binding exchange with peer switch
<a href="#">CSCvj91645</a>	Clients not getting exported to anchor on New Mobility
<a href="#">CSCvj91805</a>	WLC not providing error message while creating wrong IPv6 address
<a href="#">CSCvj93292</a>	IOS AP is changing to sensor mode without WSA enabled from AP console
<a href="#">CSCvj94236</a>	AP: Radio Init failed causing multiple wepd crashes
<a href="#">CSCvj94659</a>	Unable to update TACACS+ DNS parameters on configuring IPv6 DNS server under global settings
<a href="#">CSCvj94880</a>	1810W - Clients not getting DHCP
<a href="#">CSCvj94919</a>	702w AP running vlan ID is NA after AP reboot

Caveat ID Number	Description
CSCvj95739	Standby failing to add exclusion client - exclusion client mismatch between Active and Standby WLC
CSCvj96809	8.8_ Edit all page in mobility is not working properly, when encryption is enabled
CSCvj96920	8.8 NBN: Unable to add Flex WLAN-ACL mapping on AP until WLAN is enabled at least once
CSCvj97430	Mobility Express AP - Loop detected causes AP reboot
CSCvj98913	8.8 - "%ACL-3-RULE_DONOT_EXIST: [SA]ace_api.c:983 Unable to get IP address parameter" msg in msglog
CSCvj98950	Primary/Secondary Backup-controller config with v6 address fails for Click AP
CSCvj98989	On every execution of "show capwap client ha" appends "set_snap"
CSCvk00884	The WLC is replying with the wrong value for the following OID: bsnAPIIfProfileParamAssignment
CSCvk00889	3802/2802 APs with -S domain rejected to join the switch due to Invalid regulatory domain.
CSCvk02153	Wave 1 AP WLAN Client Stats cldcClientDataRetries counter is zero
CSCvk03686	EoGRE client count is not getting cleared in Standby on switching SSID
CSCvk03882	Sensor mode AP coming as FlexConnect after ME forced failover
CSCvk09513	AP is not downloading the WLC 85Mr3 image rather it says image is already in the backup
CSCvk09627	In 8.9.1.60 in WLC "show ap config 802.11a <ap_name>" unable to print the correct Bandwidth
CSCvk09764	WLC8.8 Smart License: AP In Use Count does not go UP when new APs are joining
CSCvk09888	AP1815 stopped working while changing mode from FlexConnect to local
CSCvk10190	8.8: HA sync failure: UsmDb:HA_send_usmDbSpamSetApMode, ErrType:Apply Config failed on Standby
CSCvk10891	8540: High latency under load with AVC, TCP fragmentation
CSCvk12146	Spurious messages getting printed on Barbados AP while Enable/Disable wlan
CSCvk12422	ME Controller rebooting twice after LSC AP Auth State to 802.1x port authentication /both
CSCvk13835	Sensor mode APs is not downloading the image after primary failover
CSCvk14062	ping delay happens with other traffic load
CSCvk14080	8.8: Standby WLC reboot with IPC failures: RP back to back connected

Caveat ID Number	Description
<a href="#">CSCvk14267</a>	Observed XML and Invalid config during upload/download WLC config.
<a href="#">CSCvk14419</a>	In WLC GUI with read only mgmt user able to ping LDAP server IP
<a href="#">CSCvk15043</a>	Wave 1 APs - AP radio FW image install failure in the bootup loop
<a href="#">CSCvk15527</a>	EoGRE tunnel configuration is not pushed to APs when AP moved from one WLC to another
<a href="#">CSCvk16522</a>	show logging config-history and show logging last-reset issues
<a href="#">CSCvk17291</a>	Operating system info missing on client 360 page for macos only
<a href="#">CSCvk17426</a>	ME: ACLs are getting deleted after upgrade
<a href="#">CSCvk18752</a>	Incorrect VCI string of DHCP option 60 on AP 1815
<a href="#">CSCvk19951</a>	AP exec timeout value is not reflected properly
<a href="#">CSCvk20402</a>	Last reset details not showing after reset/upgrade/downgrade
<a href="#">CSCvk20899</a>	AP4800 "vendor_send_mgmt_frame VAP 14 is not up" message flooding console
<a href="#">CSCvk21153</a>	AP3800: TxPower changes after moving channel and back to orginal channel
<a href="#">CSCvk22312</a>	hotspot2 OSU SSID is picking profile name
<a href="#">CSCvk23248</a>	ME controller rebooting twice after changing the LSC AP Auth configuration in UI
<a href="#">CSCvk23423</a>	WLC GUI displaying error message while disabling dhcp proxy-mode
<a href="#">CSCvk23577</a>	Client is unable to connect due to "Failed to create a timer"
<a href="#">CSCvk23664</a>	8.8: FlexConnect split tunnel does not work when the ACL is configured in FlexConnect group
<a href="#">CSCvk23822</a>	In 8.8.1.161 TP drop is observed in Downstream with 5ghz 80/40/20 Mhz in all packets size
<a href="#">CSCvk24360</a>	WLC power supply status is incorrect when there is no power supply
<a href="#">CSCvk24427</a>	Traps related to protocol pack load not sent on installing AVC protocol pack
<a href="#">CSCvk26002</a>	Mesh links are not shown on Outdoor Area View if APs are in FlexBridge mode
<a href="#">CSCvk26519</a>	1562 MAP stops sending Block ACK once the 1572 RAP moves to another WLC
<a href="#">CSCvk26539</a>	AP1815 intermittently dropping packets
<a href="#">CSCvk26545</a>	In 8.8.1.182 AP2700 TP drop in Upstream for 5Ghz 80/40/20 Mhz across all packet size
<a href="#">CSCvk26563</a>	AP1810W 5G radio FW assert @0x009A4F9F 8.2.170.4

Caveat ID Number	Description
<a href="#">CSCvk26607</a>	Global Multicast is disabling after ME reset
<a href="#">CSCvk27093</a>	NAS-ID in WLAN cannot be changed in the startup-command after you saved once
<a href="#">CSCvk27250</a>	System not operational with task apfRogueTask_3
<a href="#">CSCvk28143</a>	WLC crashed with SNMPTask in 8.5.137.10
<a href="#">CSCvk28371</a>	hotspot2 OSU SSID is picking profile name
<a href="#">CSCvk29178</a>	1550 BVI interface uses a different MAC-Address than the Gigabit interface
<a href="#">CSCvk30585</a>	8.8_"Missing 802.1X or client control block" Errors in WLC Message Logs
<a href="#">CSCvk30807</a>	Wave 1 AP mesh AP reloading due to Reload requested by Net Background
<a href="#">CSCvk31484</a>	Upstream traffic rate is slow via specific Wave 2 AP
<a href="#">CSCvk32494</a>	Encrypted mobility:UI throws wrong error message while adding mobility peer
<a href="#">CSCvk33107</a>	8.8: Clients not able to connect due to M2 MIC failure
<a href="#">CSCvk35047</a>	WLC stops working when LAG mode is enabled on the AP
<a href="#">CSCvk35275</a>	5508 WLC stopped working at Task Name - EAP_Framework_0
<a href="#">CSCvk36257</a>	8.8 - Local-Split WLAN-ACL mapping is retained at AP after it is removed from WLC
<a href="#">CSCvk36463</a>	Support Bundle output only generates WSA core bundle when WSA is enabled
<a href="#">CSCvk36887</a>	Some clients cannot associate because their entry is not getting deleted at the WLC.
<a href="#">CSCvk37153</a>	8.8 - 6K entries of "config ap syslog host global <IP>" in uploaded config
<a href="#">CSCvk37576</a>	SessionID should be added and decoded from Handoff packet.
<a href="#">CSCvk37877</a>	TACACS user:Getting failed msg"SNMPv3 user lockout attempts configuration failed"
<a href="#">CSCvk39841</a>	Change SSID name with SNMP fails with commitFailed
<a href="#">CSCvk39948</a>	WLC is not returning the expected prompt when logging in via SSH
<a href="#">CSCvk40074</a>	Switchdrv unresponsiveness triggered by DB services crash
<a href="#">CSCvk40132</a>	8.8: UI accepts Prefix length 0 with error static IPv6 configured, but incorrect IPv6s or missing/
<a href="#">CSCvk40571</a>	Partial Collection Failure state for WLC 3504
<a href="#">CSCvk41068</a>	Advance IPMI is not set and causing fan noise
<a href="#">CSCvk41447</a>	AP auth local user authentication fails once deleting and adding the local user back
<a href="#">CSCvk41500</a>	Hotspot is enabling with Open/Guest security after change from WPA Enterprise

Caveat ID Number	Description
<a href="#">CSCvk41512</a>	APX800 sniffer mode not sending frames with AMSDU 1500 Bytes to destination
<a href="#">CSCvk41583</a>	Local Split traffic is goes through after removing ACL mapping
<a href="#">CSCvk41963</a>	Observed "print_backtrace+48" message on all ME
<a href="#">CSCvk42191</a>	AP3800 advertises RSN IE for an OPEN SSID.
<a href="#">CSCvk42314</a>	8.8:"show client summary" pegged an extra count 1 without client data once a while periodically
<a href="#">CSCvk42592</a>	Disabling "Out of box" in RF Profiles throws SNMP error
<a href="#">CSCvk42619</a>	Client RF stats are not cleared when client role moving from Local to Export-Anchor
<a href="#">CSCvk43025</a>	Local Split and Central path traffic stops after some time with 2800 APs
<a href="#">CSCvk43114</a>	[SDA] WLC with a sensor AP is generating a "URL not reachable" error every hour
<a href="#">CSCvk43433</a>	Passphrase as hex value is not supported in ME GUI for PSK WLAN
<a href="#">CSCvk44045</a>	8.8:Config static IPv4 but still using DHCP IPv6 due to no reboot after IPv4 accepted
<a href="#">CSCvk44089</a>	8.8:Note 8/Galaxy S7 Device Type improper, Local Profiling miss "Apple" for Manufacture Stats
<a href="#">CSCvk44492</a>	WiSM2 continuously reloads without crash file
<a href="#">CSCvk44831</a>	LSC cert:Click-AP not taking configured LSC cert keysize.
<a href="#">CSCvk45259</a>	In Build 8.5.134.106 AP 2700 TP drop with 2% is seen in 5Ghz Downstream
<a href="#">CSCvk45492</a>	AP TrustSec: AP does not retain CTS SXP peer connection and disabling CTS SXP state after reload
<a href="#">CSCvk46817</a>	AIR-AP2802I not sending beacons with both radios in 5GHz
<a href="#">CSCvk46867</a>	8.8: Unable to transfer code between HA controllers
<a href="#">CSCvk47740</a>	Pre-auth ACLs are not configuring for RLAN in ME UI
<a href="#">CSCvk47879</a>	Silent crash on WLC 5508 due to growing memory utilisation
<a href="#">CSCvk47937</a>	Local-Split - Local traffic is failing when VLAN Tag is enabled.
<a href="#">CSCvk47949</a>	Local-Split- Traffic to Local network fails after roaming from one ap to another in flexgroup
<a href="#">CSCvk51102</a>	iOS captive portal taking 45 seconds to trigger in Local Web-Auth
<a href="#">CSCvk51464</a>	8.8 ME: ME GUI doesn't display the IP the internal AP is using but rather the main IP
<a href="#">CSCvk51634</a>	Wave 2 Flex Efficient Upgrade fails as primary AP sends empty image_str to WLC

Caveat ID Number	Description
<a href="#">CSCvk52144</a>	8.5: SSH connection to WLC is not going through after longevity and stress conditions
<a href="#">CSCvk52187</a>	Unable to configure TGW list with TACACS controller user in WLC UI
<a href="#">CSCvk52210</a>	Cannot configure Management IP when WLC is in maintenance mode.
<a href="#">CSCvk52381</a>	DNS-ACL - Webauth Redirect page is not working properly in CWA case
<a href="#">CSCvk52704</a>	"config network multicast l2mcast disable <interface>" config is not blocking L2 mcast traffic
<a href="#">CSCvk52808</a>	8.8 - SSH session closed with message "Incoming packet was garbled on decryption"
<a href="#">CSCvk52883</a>	8.8:Local Profiling UI shows Manufacture Stats issues
<a href="#">CSCvk53015</a>	IOS AP mapping incorrect FlexConnect VLAN
<a href="#">CSCvk53499</a>	APs doesnt reconnect back, error log: System reached max concurrent DTLS Handshakes
<a href="#">CSCvk53511</a>	8.5MR: 3504 Anchor WLC has multiple stale client entries after longevity/traffic test
<a href="#">CSCvk53743</a>	8.5_New mobility:UI throws wrong error message while adding used public IP
<a href="#">CSCvk53873</a>	8.5MR: Bulk sync completion traps flood from the Active WLC
<a href="#">CSCvk53963</a>	DNS-ACL - 1815 ME switchdriver crashed in 8.8.2.18
<a href="#">CSCvk54001</a>	IRCM: v6 peers not synched to standby - UsmDb:HA_send_usmDbMmMwarAddIPv6, ErrType:Apply Config fail
<a href="#">CSCvk54272</a>	8.5MR: 3504 WLC stops working on task: reaperWatcher during webauth testing
<a href="#">CSCvk55651</a>	AP1852 failure of association due to set CAPWAP tunnel failed
<a href="#">CSCvk56120</a>	ME: Unable to create IPv6 ACL after creating and deleting multiple ACLs
<a href="#">CSCvk56509</a>	Mobility:Edit all page hangs when some mobility group member doesn't have req args
<a href="#">CSCvk57014</a>	AP: Sometimes creates empty radio core files without any information
<a href="#">CSCvk57269</a>	Sanity: ME-4800 multicast traffic did not pass, tested with internal AP
<a href="#">CSCvk57361</a>	FQ NMI reset on 2802 AP mrvlfwd dies
<a href="#">CSCvk58160</a>	Stress test: AP1552H RAP stops working when AP CPU hits nearly 100 percent usage
<a href="#">CSCvk58429</a>	WLC shows wrong pop-up when downloading web-auth certificate
<a href="#">CSCvk58501</a>	AP radio unresponsiveness happened because of beacon stuck
<a href="#">CSCvk58625</a>	Wireless management interface change should not be allowed when IPsec is enabled
<a href="#">CSCvk58924</a>	8.5MR4 - IPv4 ACL is wrongly externalized in case of Flexconnect Local Switching.

Caveat ID Number	Description
<a href="#">CSCvk59040</a>	8.5MR: 3504 mGig port should be allowed to be disabled when not mapped to MGMT/RMI interface
<a href="#">CSCvk59252</a>	8.5MR: Service port configuration is lost after switchover
<a href="#">CSCvk59259</a>	8.5MR4 - 3504 standby controller rebooted (Standby IPC failure) instead of maintenance state
<a href="#">CSCvk59498</a>	AP3702 High CPU Utilization under NCI Rx. Unable to join WLC
<a href="#">CSCvk60394</a>	2700 AP not ACK on QoS data packet from client occasionally
<a href="#">CSCvk60596</a>	8.5MR4 - Clients/Security/eap-type is externalized as 3 when EAP-FAST is selected
<a href="#">CSCvk60986</a>	AP CAPWAP MTU discovery fails for CAPWAP data
<a href="#">CSCvk61078</a>	VLAN priority tag inside the EoGRE packet set to non-zero when 802.1p set to none in LOCAL mode
<a href="#">CSCvk61124</a>	Samsung TV drops connection on its mgmt server due to incorrectly assembled Packets received 1810w
<a href="#">CSCvk61577</a>	AP: OOM stops working seen in 8.8.3.25 when intelligent capture enabled
<a href="#">CSCvk61599</a>	RADIUS does not fall back to primary RADIUS server.
<a href="#">CSCvk61968</a>	Incorrect QoS marking for upstream traffic when connecting Platinum WLAN
<a href="#">CSCvk62008</a>	Sometimes AP does not send EAPOL frame after client reassociation
<a href="#">CSCvk62025</a>	DNS-ACL- Wild card entry for v4 ACL is not getting applied in Client when v4 and v6 acls are used
<a href="#">CSCvk62034</a>	DP stops working on WLC running 8.2.154.53
<a href="#">CSCvk62093</a>	8.5MR4 - Non-Flexconnect IPv6 ACL is applied for Local switching Client
<a href="#">CSCvk62240</a>	WLC Smart license 8.8: The license summary(information) is not syncing in after switchover
<a href="#">CSCvk62355</a>	AP2800 running ME image 8.6.101.0, 8.7.106.0 crash in ewsContexSendRedirect200->ewaDate
<a href="#">CSCvk62680</a>	WiSM2 not releasing licenses after reboot
<a href="#">CSCvk62909</a>	Device profile does not work for certain Android phones. Profiled as Linux-workstation
<a href="#">CSCvk62915</a>	'Nearby AP' stats shown multiple times with different dBm values for the same slot
<a href="#">CSCvk63215</a>	Cisco 1852 series APs Kernel Panic due to NSS memory corruption
<a href="#">CSCvk63291</a>	WGB not responding M3 message on 4-way handshake

Caveat ID Number	Description
<a href="#">CSCvk63452</a>	8.5MR4:2800/3800 XOR CleanAir state is Down when Band in 160MHz while Up for 20, 40, 80MHz
<a href="#">CSCvk63459</a>	3802, 4800 AP drops packets larger than 1426 (inner IP) with VxLAN
<a href="#">CSCvk63784</a>	8.5MR4 - Error String is not getting updated in Last Error field in "show network assurance summary"
<a href="#">CSCvk64669</a>	8.8.3.22 AP2700 TP drop is seen in Downstream and Upstream in 5 ghz 80/40/20 Mhz all packet size
<a href="#">CSCvk64674</a>	Wave1 APs advertise Adaptive FT MDIE on probe response for open SSID
<a href="#">CSCvk64809</a>	8.8 3504 WLC Mgis Stanby struck with ERROR: cvmx_cmd_queue_shutdown: Queue still has data in it.
<a href="#">CSCvk64829</a>	Observing CMX Certificate error and WSA cert related XML message on Mob Exp
<a href="#">CSCvk64928</a>	AP stops working when we configure LSC keysize as 4096
<a href="#">CSCvk65128</a>	8.5MR4:tar:can't open '/tmp/part.tar': No such file/"tar -xf /tmp/part.tar -C /bootpart/part2" fail
<a href="#">CSCvk65150</a>	8.5MR4:UI pop-ups incorrectly when swap image fine, inconsistent error vs, CLI when image going
<a href="#">CSCvk65680</a>	Profile: AP3602 has a radio core after transmitter seems to have stopped
<a href="#">CSCvk65886</a>	Profile: AP3602 stops working in process Init after tracebacks with 8.5.137.24
<a href="#">CSCvk66354</a>	8.5MR4 - GUI issues with Assurance Stats
<a href="#">CSCvk66635</a>	8.5MR4: 3702NOS module AP stops working with Dot11 Driver
<a href="#">CSCvk66700</a>	3500 series access point 5GHz radio stops working.
<a href="#">CSCvk66762</a>	8.5MR4:Error sending/receiving register device request/rsp&ACT2 could not be registered in tam
<a href="#">CSCvk66896</a>	FlexConnect AVC profiles not marking DSCP traffic
<a href="#">CSCvk66975</a>	AP as a sensor reports all configured tests status as onboarding failure
<a href="#">CSCvk67140</a>	Client unable to join SSID reason 54 from AP and WLC

## Resolved Caveats

Table 13: Resolved Caveats

Caveat ID Number	Description
<a href="#">CSCvb26809</a>	WLC should use port MAC for non LAG and box MAC for LAG

Caveat ID Number	Description
<a href="#">CSCvc62540</a>	Smart Licensing next communication attempt pre-dates the controller time after reboot
<a href="#">CSCvc66728</a>	WLC: Traceback pattern #2 on 8.2MR5 in apfProcessAssocReq
<a href="#">CSCvc80047</a>	Unexpected AP reloads - dpaa_get_pool_id_from_ios_pool_ptr
<a href="#">CSCvd67485</a>	Cisco 3700 AP Tx stop Radio reset due to false radio TX inprog count
<a href="#">CSCve64652</a>	Cisco Access Point 802.11r Fast Transition Denial of Service Vulnerability
<a href="#">CSCve70752</a>	SNMP issue: TX power level returns null causing Cisco PI, WLC sync to not update AP information
<a href="#">CSCve82488</a>	Cisco Wave 2 APs in FlexConnect mode stop redirecting CWA clients after WLAN change
<a href="#">CSCvf10811</a>	Sniffer mode APs should log more layer 1 information
<a href="#">CSCvf28459</a>	Write of the Private File nvram:/lwapp_ap.cfg Failed on compare RCA needed (try = 1)
<a href="#">CSCvf31881</a>	Cisco 2800 AP detects Intel Dual Band Wireless-AC 8260 as rogue client/AP
<a href="#">CSCvf63455</a>	Linux Kernel 3.14.43 - inotify_handle_event() and vfs_rename() Privilege Escal ...
<a href="#">CSCvf66696</a>	Cisco WLC Control & Provisioning of Wireless Access Points Protocol Denial of Service Vulnerability
<a href="#">CSCvf66723</a>	Cisco Wireless LAN Controller Directory Traversal Vulnerability
<a href="#">CSCvf80409</a>	AP1815 not sending all traffic after period under load
<a href="#">CSCvf83391</a>	Cisco 8.3 Release: AP reloads unexpectedly at TAMD ap-tam process
<a href="#">CSCvf86161</a>	Bad magnitude calibration values in Triggerfish EEPROM
<a href="#">CSCvf89335</a>	Cisco 3700 AP stopped working with memory allocation failure CAPWAP
<a href="#">CSCvf90411</a>	[IOT 8.6 HSR]:IW3702 WGB radio 0 core after 30M up EAP-FAST security and script common cleanup
<a href="#">CSCvf99887</a>	MAP Gigabit port being learned in Mesh management VLAN instead of client VLAN
<a href="#">CSCvg00507</a>	Cisco 3700 AP reloads unexpectedly- PID 104: Process LWAPP Rogue Monitoring process
<a href="#">CSCvg07617</a>	AP1810W:Kernel Panic reloads unexpectedly PC is at _ZN17ContentHashFilter11clear_staleEv+0x1ac/0x1d0
<a href="#">CSCvg18543</a>	Cisco 3700AP TX jammed and radio reloads unexpectedly
<a href="#">CSCvg23810</a>	PMTU change to 1500 from a lesser value is not reflected in AP
<a href="#">CSCvg28378</a>	AP: cmd timeout AP radio reloads unexpectedly in 8.6 due to Rx hang

Caveat ID Number	Description
<a href="#">CSCvg35115</a>	Cisco 3802 running 8.3.130 shows radio core without the crash file
<a href="#">CSCvg35220</a>	Cisco 3702 AP- Fails to correctly map data traffic to SGACL
<a href="#">CSCvg35547</a>	Cisco 3700 AP beacon stuck seen on 8.5.107.x image
<a href="#">CSCvg40339</a>	Cisco 2800 AP in sniffer mode is missing huge amount of data packets
<a href="#">CSCvg40792</a>	Client global IPv6 not correctly mapped to MAC address under certain conditions
<a href="#">CSCvg44450</a>	Cisco 2800,3800,1560 AP cannot forward packets downstream; 'Failed to get ARP entry for WLC'
<a href="#">CSCvg53640</a>	Cisco 1830 AP triggered FW assert for radio failure (beacons stuck)
<a href="#">CSCvg60758</a>	Cisco Wave 2 APs drops TCP retransmit from server
<a href="#">CSCvg61878</a>	Cisco Wave 2 APs: does not send k9w8 in LLDP Packets leading to false classification
<a href="#">CSCvg62039</a>	False radar detection on AP 1832 with 40MHz CW
<a href="#">CSCvg62508</a>	3702 AP sometimes maps SGT 0 to client even though ISE returns correct SGT
<a href="#">CSCvg67509</a>	Cisco 1810W AP reloads unexpectedly over a kernel panic
<a href="#">CSCvg70352</a>	Cisco 1832,1852 APs reloads unexpectedly due to kernel panic at 'kmalloc_poolid+0xb8/0x16c'
<a href="#">CSCvg70384</a>	Cisco 1832/1852 AP radio reloads unexpectedly at 0x009A497D
<a href="#">CSCvg70787</a>	8.6: 3802 Kernel panic PC is at skb_release_data+0xe0/0x230
<a href="#">CSCvg71816</a>	Cisco 8510 controller: reaper reset due to unexpected reload with task tempstatus
<a href="#">CSCvg72918</a>	Cisco 4800 AP on 8.7.1.x code configures channel of slot_0 band 5Ghz
<a href="#">CSCvg73522</a>	Cisco 5508 WLC reloads unexpectedly due to memory leak in snmpApPowerTrap()
<a href="#">CSCvg73797</a>	Cisco 2800, 3800 AP: Command timeout at 0x8000 in FW
<a href="#">CSCvg75182</a>	MC:8.3MR4: Continuous stack trace print due to error on Wave 2 AP with 8.3.134.30
<a href="#">CSCvg75189</a>	Cisco 1800 AP: Radio failure and firmware freeze
<a href="#">CSCvg75933</a>	CPU ACL does not block webauth related ports
<a href="#">CSCvg76168</a>	Cisco 1532AP 5GHz radio interface remains down due to DFS even when not all channels are in blocked list.
<a href="#">CSCvg77711</a>	System reloads at random on running mesh commands
<a href="#">CSCvg78210</a>	AP syslog config does not change level from AP syslog to informational it remains in emergencies

Caveat ID Number	Description
<a href="#">CSCvg78624</a>	Cisco 2800, 3800 APs: channelization issue, all the APs are stuck on channel 36
<a href="#">CSCvg79381</a>	AP: AP failed to send ApSecurityContext; resulting all hyperlocation dropped by CMX
<a href="#">CSCvg82066</a>	Cisco 1815I AP reloads due to kernel panic
<a href="#">CSCvg82156</a>	Cisco 2802E AP: Radio1 reloads unexpectedly
<a href="#">CSCvg82215</a>	Silent reloads, data plane crashes, high latency when WLC receives jumbo frames
<a href="#">CSCvg82450</a>	[vEWLC]:After SSO, wired-wireless and wireless-wireless traffic drops for 4-12 seconds.
<a href="#">CSCvg82672</a>	NAT-PAT- AP losing NAT translation entry for ongoing continuous client traffic
<a href="#">CSCvg82784</a>	Cisco Wave 2 APs start the Channel Availability Check (CAC) timer after rolling to a lower bandwidth
<a href="#">CSCvg83836</a>	Clients cannot pass traffic with 1810W MAB FlexConnect local switching RLAN
<a href="#">CSCvg84824</a>	AP Sensor: Does not forward DHCP offer data packet to sensor client over the air
<a href="#">CSCvg84897</a>	AP-4800: XOR radio Rx-SOP threshold remains same after changing band from 2.4 GHz to 5GHz
<a href="#">CSCvg85175</a>	Cisco WLC reloads unexpectedly with task name spamApTask0
<a href="#">CSCvg86324</a>	WLC reloads unexpectedly with SNMP operation with Flex ACL
<a href="#">CSCvg86741</a>	vEWLC:SGT tag not getting deleted when client is in webauth_pending
<a href="#">CSCvg87401</a>	Cisco 1542 AP reloads unexpectedly when in Flex + Mesh mode
<a href="#">CSCvg87547</a>	AP: Client disconnected due to idle timeout wrongly kicking in when client is going to power save
<a href="#">CSCvg88269</a>	CTS-SXP default password not retain after upload and download the config.
<a href="#">CSCvg89145</a>	[cmd timeout] wifi1: 0x801f=unknown intCode:0x001f last 0x8120=unknown
<a href="#">CSCvg89442</a>	Cisco 5500 and 8500 Series Wireless LAN Controller Information Disclosure Vulnerability
<a href="#">CSCvg89705</a>	Cisco 8540 standby WLC reloads unexpectedly on rsyncmgrIpcqTask while disabling HA
<a href="#">CSCvg89807</a>	Silver QoS profile is assigned to RLAN when configuration is imported
<a href="#">CSCvg90113</a>	8.7: AP removing the client wrongly though IPv6 pre-auth ACL present in the database with URL rules
<a href="#">CSCvg91108</a>	WQE size constantly increasing, error messages
<a href="#">CSCvg91708</a>	WLC emweb reloads unexpectedly at commandConfigSpamApAntennaMonitor

Caveat ID Number	Description
CSCvg91734	Cisco 1852/1832 AP: AP data traffic stall in HD environment
CSCvg91811	Cisco 4800 FW freeze on radio 1
CSCvg93191	Cisco 3800 AP beacon stuck when radio reloads unexpectedly with signature 'B0B0'
CSCvg94522	TxFSM stuck on Radio 0 with new signature
CSCvg94718	Standby WLC reloads unexpectedly on spamApTask
CSCvg94780	Cisco WLC reloads unexpectedly on 8.5.105.0 release
CSCvg94967	8.7.1.79 - Cisco 2800, 3800 APs ASKU - Unable to push config for APBeacon V-Ibeacon profile
CSCvg95476	Cisco 1810,1850 AP reloads unexpectedly with switch behind RLAN/Aux Port
CSCvg96160	Cisco WLC reloads unexpectedly after 1-day on 8.7 Alpha
CSCvg96183	Proxy ARP always enabled in Beacon IE for Flex mode AP irrespective of ARP cache config
CSCvg96852	Cisco 1815W SnifferMode AP beacons allows clients to join and blackhole traffic
CSCvg96864	Cisco 8.5MR1 to 8.5.107.110 Releases - Cisco 3702 AP radio core with reason 'Bad acq dtx'
CSCvg97013	Cisco 8540 WLC reloads unexpectedly on Task Name: emWeb on 8.5.110.0
CSCvg97208	Cisco 1852AP: Apple clients connection fails in 802.11r adaptive mode in WLAN
CSCvg97712	Cisco 1850 AP console flooded with 'Total NR report Length exceeds Max Buffer Size -1067447752'
CSCvg98048	Sensor: Getting error during test run: CRITICAL - Stuck at test index -1 Will restart WSA !
CSCvg98078	AP with Flex AVC visibility Tx frames with sequence jumps causing client to not process packets
CSCvg98786	IOS AP DTLS flap issue seen in pre commit sanity
CSCvg99101	MC:8.5:Radio FW crash seen on Cisco 1850 APs @0x009A646B
CSCvg99108	8.5 MR1 on Cisco 2702 AP reloads unexpectedly on dot11_rm_offchan_handle_fw_response_isr
CSCvg99310	8.7: AP IPv6 URL ACL rule miss-match leads to client packet drop
CSCvg99890	<b>config certificate generate</b> line of uploaded config is corrupted
CSCvh00153	Download of PKCS12 bundle failed for EAP-TLS WLAN
CSCvh00256	Cisco WLC has multiple open ports, cannot be properly secured

Caveat ID Number	Description
<a href="#">CSCvh00398</a>	WSA: Flex RADIUS Stats data parsing fails
<a href="#">CSCvh01089</a>	False beacon stuck issue due to no beacon updates in WCP message Host triggered a radio freeze
<a href="#">CSCvh01470</a>	Cisco 5520, 8540 WLC: Little Endian issue while adding rules in iptables for snmptrap over IPsec
<a href="#">CSCvh02937</a>	Sensor: wireless sensor is choosing SSIDs with very poor signals during Cisco Provisioning
<a href="#">CSCvh03995</a>	WLC 3504: Returns error code 500 / unauthorized token error when trying to send data to Assurance
<a href="#">CSCvh04880</a>	Sensor: Intermittent connectivity issues with EAP-FAST security
<a href="#">CSCvh05749</a>	AP IP address showing as '0.0.0.0' on GUI while downloading new image
<a href="#">CSCvh07545</a>	Cisco 2800, 3800APs Kernel Panic due to processing of Rx frames before driver is initialized
<a href="#">CSCvh08020</a>	AP stuck in AP after upgrade: flashfs[0]: writing to flash handle Illegal Operation
<a href="#">CSCvh11158</a>	Cisco Wave 2 APs do not apply TCP adjust MSS on Fabric or Flex local SSIDs
<a href="#">CSCvh11212</a>	WLC with Internal DHCP not sending NAK
<a href="#">CSCvh12081</a>	Time not synced with Version 4 and getting unwanted message and NTPQ status also not showing
<a href="#">CSCvh12398</a>	8.7: IPv6 enforcement not working with 8.8.1.8
<a href="#">CSCvh12504</a>	8.7: IP learning not happening for IPv4 URL ACL on configuring both IPv4 and IPv6 pre-auth ACLs
<a href="#">CSCvh12768</a>	IOS 3700 AP could not join WLC over CAPWAPv6 tunnel using DHCPv6 address
<a href="#">CSCvh12943</a>	Cisco 2800,3800APs on 87 code TLV-DEC-ERR-1 No proc for 1912,TLV-DEC-FAILED for TLV_VAP_PAYLOAD(276)
<a href="#">CSCvh14509</a>	Queue full issue observed with NmspNormalTxQ, breached 1 time. having Capacity 65535
<a href="#">CSCvh14849</a>	8.7:'Disable' selected for 'fabric' cannot filter qualified APs out
<a href="#">CSCvh14989</a>	Client in RUN state on anchor with 0.0.0.0 IP address
<a href="#">CSCvh15015</a>	Level-1 list for Radio 0 is blank
<a href="#">CSCvh15852</a>	WLC GUI/SSH not accessible - emweb consuming 100% CPU
<a href="#">CSCvh16413</a>	WLC system reloads unexpectedly with apfRogueTask_0
<a href="#">CSCvh16970</a>	Cisco WLC does not apply ACL Template from PI correctly

Caveat ID Number	Description
<a href="#">CSCvh18096</a>	CPU ACL does not block HTTPS traffic to management interface from wired client
<a href="#">CSCvh18868</a>	In VWLC unable to config WLAN once created through GUI
<a href="#">CSCvh19127</a>	Cisco 1815I AP no response from wired side
<a href="#">CSCvh20238</a>	Cisco 2800, 3800 APs joining the WLC in flex-mode fail to update FlexACL in group policies
<a href="#">CSCvh20731</a>	WLC-HA: Certificate transfer during HA pair up
<a href="#">CSCvh21486</a>	WLC reloads unexpectedly due to Task apfMsConnectionTask when MBUF debug is enabled
<a href="#">CSCvh21605</a>	ME - wired clients drop-off shortly after being started from <b>show client ap remote-lan</b>
<a href="#">CSCvh21632</a>	ME: Console freezes while <b>transfer upload datatype signature</b>
<a href="#">CSCvh21812</a>	Cisco 3802 AP - Apple Broken Antenna Detection feature - XML support
<a href="#">CSCvh21942</a>	8.7: Cisco WLC reloads unexpectedly during FW upgrade on 2 Floor Beacons with task: dx_sync_task
<a href="#">CSCvh21953</a>	Cisco Aironet 1560, 1800, 2800 and 3800 Series Access Point Denial of Service Vulnerability
<a href="#">CSCvh23344</a>	Cisco Controller reloads unexpectedly on taskname emweb @ewaFormSubmit_route_list
<a href="#">CSCvh23473</a>	Cisco 1572 AP shows incorrect regulatory power level for Qatar domain
<a href="#">CSCvh23785</a>	AireOS WLC: Multiple wireless clients failing the broadcast Key refresh (M5).
<a href="#">CSCvh25039</a>	SNMP causes unexpected reloads
<a href="#">CSCvh25368</a>	Cisco Controller memory leak on CDP
<a href="#">CSCvh27557</a>	Cisco 1562 AP limited to 54 Mbps in 2.4-GHz backhaul
<a href="#">CSCvh27570</a>	cLSiIdrClusterAffectedChannels OID returning unexpected values
<a href="#">CSCvh28229</a>	Incorrect count for cLApWlanStatsOnlineUserNum when SSID is changed
<a href="#">CSCvh28506</a>	Cisco 3504 controller cannot use USB for file transfer
<a href="#">CSCvh30447</a>	MAP changes its statically assigned non-backhaul channel after it rejoins RAP
<a href="#">CSCvh30872</a>	Decrypt errors on Cisco 1532 AP
<a href="#">CSCvh31233</a>	AP fails to resend data on getting 401 error from Cisco DNA
<a href="#">CSCvh32561</a>	Cisco 3700 AP reloads unexpectedly due to 'Per-Second Jobs' on 8.3.134.57
<a href="#">CSCvh32590</a>	Cisco 1852 AP: Observed a radio core on loading the image, 5G @0x0099B20C,

Caveat ID Number	Description
<a href="#">CSCvh32971</a>	Management through Wireless Not Working
<a href="#">CSCvh33064</a>	Config logging traceinfo setting not restored correctly
<a href="#">CSCvh47521</a>	Cisco IOS AP shows decrypt failed messages on driver debug
<a href="#">CSCvh48916</a>	Cisco 1815I should consume power draw mentioned in the datasheet
<a href="#">CSCvh49623</a>	Cisco Controller reloads unexpectedly with XML parse error during boot up
<a href="#">CSCvh50132</a>	AP Sensor: PSK password being display in plain text test config
<a href="#">CSCvh50166</a>	Cisco 2802e model without DART connector being considered as RRF candidate and assigned 5 GHz role
<a href="#">CSCvh50446</a>	8.7: Hyperlocation destination IP missing from AP fast path
<a href="#">CSCvh51835</a>	WGB client not getting IP address from the VLAN returned as AAA override
<a href="#">CSCvh51873</a>	WLC reloads unexpectedly on Task Name: emWeb due to DATACORRUPTION-DATAINCONSISTENCY
<a href="#">CSCvh51936</a>	Cisco 3504 controller flooding with emc1403 0-007c: Read failure of status register error msg
<a href="#">CSCvh52101</a>	L1 list is not generated when AP moved from Monitor mode to Client serving mode
<a href="#">CSCvh52237</a>	8.7: Dropping ADD_MOBILE due to mismatch in client radio/vap id slot id: 0 client_assoc_id: 1 vapid:
<a href="#">CSCvh53814</a>	Cisco Wave 2 AP in Flex LS: IPv6 RA dropped with high level of multicast on wired interface
<a href="#">CSCvh54235</a>	Cisco 3800 AP FW stopped working on Radio 0
<a href="#">CSCvh54459</a>	Cisco AP console display logs 'DTX DUMP'
<a href="#">CSCvh55157</a>	Cisco Controller reuses Acct-Session-Id when Client changes WLANs
<a href="#">CSCvh57198</a>	Wired Cisco 1800 AP after Cisco DNA image refresh requires resetting from console
<a href="#">CSCvh57945</a>	Cisco 3500, 5520 Controller reloads unexpectedly with sim_task on 8.7.1.107
<a href="#">CSCvh58148</a>	Cisco Wave 2 APs uses invalid CAPWAP-Data keep-alive source port
<a href="#">CSCvh58266</a>	WLC reloads unexpectedly on Task Name: ccxL2RoamTask 0x162ad5d l2roamGetRrmNeighborList+77
<a href="#">CSCvh58401</a>	Address security issues in older curl and libxml libraries
<a href="#">CSCvh58467</a>	Kernel Panic with PC at skb_release_data+0xe0/0x230
<a href="#">CSCvh58486</a>	WLC reloads unexpectedly on Task Name: emWeb osapiMsgQueueDetailClear+42/usmDbMsgQueueDetailClear+27

Caveat ID Number	Description
<a href="#">CSCvh58917</a>	Cisco WLC MAC authentication web redirected URL is broken
<a href="#">CSCvh59834</a>	ME : Cannot change the role of XOR radio from Auto to Manual on AP2802E without DART
<a href="#">CSCvh60627</a>	Cisco 3504 WLC reloads unexpectedly with taskname 'osapiReaper'
<a href="#">CSCvh60970</a>	WLC reloads unexpectedly on Task Name:emWeb osapiMutexDumpAllLocked+890 after timezone setting of AP
<a href="#">CSCvh61107</a>	GUI : EAP-TLS not working on Cisco 1815, 1562 AP models
<a href="#">CSCvh61355</a>	WLC need remove WGB behind wired client after WGB changes to worst uplink
<a href="#">CSCvh61939</a>	Cisco 1562 MAP is not forwarding BPDUs sent by the RAP when using Ethernet bridging
<a href="#">CSCvh62112</a>	1832, 1852 APs reload unexpectedly due to memory leak in 4k slab with Spectrum Intelligence enabled
<a href="#">CSCvh62827</a>	Wireless client cannot communicate each other with dynamic VLAN
<a href="#">CSCvh63417</a>	d0: *** sensord died (src/dspm_main.c:1662/0) - slot 0 ***
<a href="#">CSCvh63454</a>	Cisco 1261 AP standalone unexpectedly reloads on 8.3MR3 escalation image
<a href="#">CSCvh64065</a>	Cisco 3800, 2800 AP: Beacons stuck because VAP is disabled
<a href="#">CSCvh65876</a>	Cisco Wireless LAN Controller Software GUI Privilege Escalation Vulnerability
<a href="#">CSCvh66002</a>	AP sniffer does not capture traffic when enabled for the first time on a channel
<a href="#">CSCvh66610</a>	Cisco 3800,4800 APs unstable after upgrading to 8.7.1.115-vmalloc: allocation failure -FIQ/NMI reset
<a href="#">CSCvh66793</a>	AP 1815W - continuously logs: missing case for op class XXX in ieee80211_mbo_operating_class_to_chan
<a href="#">CSCvh67548</a>	Cisco 1600AP sending de-auth frame with reason code 7 to Random MAC Address XX:XX:00:00:00:00
<a href="#">CSCvh67549</a>	Cisco 8540 WLC Data Plane reloads unexpectedly on __udp_input
<a href="#">CSCvh67590</a>	WLC delay packets due to high DP packet buffers in use
<a href="#">CSCvh67738</a>	Observed Traceback and FP0.05:(36)Pkt Ptr Unaligned, WQE-080000000037e6e00 on WLC HA while reset
<a href="#">CSCvh70051</a>	Cisco 3800 AP DFS CAC failures on repeated channel changes/radar injection
<a href="#">CSCvh70067</a>	WLC 8.7 not sending SPI keys, when added to CMX with HL enabled.
<a href="#">CSCvh72613</a>	Cisco AP reloads unexpectedly when running <b>show controller d1 atf cfs client</b>

Caveat ID Number	Description
<a href="#">CSCvh72803</a>	AP stops working during sh tech collection command that includes show CAPWAP client config
<a href="#">CSCvh72867</a>	Radio reset with transmitter seems to have stopped
<a href="#">CSCvh73146</a>	Cisco Controller reloads unexpectedly due to clientTroubleShootingTask 8.3.133.0
<a href="#">CSCvh73674</a>	Cisco 1562 MAP not sending Air Quality reports to WLC
<a href="#">CSCvh73821</a>	Cisco WLC reloads unexpectedly on sh run-config
<a href="#">CSCvh74663</a>	IOS AP unexpectedly reloads during show CAPWAP client config using SSH
<a href="#">CSCvh77575</a>	ATF monitor mode config for AP group is not reflecting on GUI
<a href="#">CSCvh77719</a>	External MDNS resolution fails with WLC 'link local bridging' enabled
<a href="#">CSCvh78106</a>	Cisco 2800,3800 AP on 8.7 code hangs for an hour with radio UP followed by silent reload
<a href="#">CSCvh78149</a>	Cisco 1815 AP idle clients are not removed after 24 hrs
<a href="#">CSCvh78884</a>	Cisco AP reloads unexpectedly on NBAR timer tick task
<a href="#">CSCvh79344</a>	WLC is returning values for 'cLSiIdrDeviceSignature' OID with a length greater than 32 bytes
<a href="#">CSCvh79699</a>	8.7:Task Name: spamApTask4 cSendConfigurationStatusResponse capwap_error_handler2
<a href="#">CSCvh79809</a>	Sensor: poor on boarding connectivity with Cisco 1800S AP compared to Cisco 3800 AP
<a href="#">CSCvh81391</a>	Cisco 2800, 3800 AP add CAPWAP ap-primed-join-timeout logic
<a href="#">CSCvh82606</a>	LSC configurations are not persistent after certificate installation followed by system reboot
<a href="#">CSCvh82671</a>	Clients are not able to load the Web-authentication login portal in Foreign-Anchor scenarios.
<a href="#">CSCvh83197</a>	Cisco 1560 AP will create a loop when failing over to wireless and wired connection comes back
<a href="#">CSCvh83328</a>	WLC reloads unexpectedly in loop while trying to download old config from TFTP
<a href="#">CSCvh83925</a>	Webauth configuration is supported at testconfig level, rather than SSID level
<a href="#">CSCvh84101</a>	ICMP reachability should not be performed by sensor tests other than host reachability
<a href="#">CSCvh85082</a>	Cisco 1562-I AP failed to decode discovery response and unexpectedly reloads
<a href="#">CSCvh85830</a>	Cisco controller blocks client MAC authentication for wrong WLAN profile

Caveat ID Number	Description
<a href="#">CSCvh86834</a>	802.11w client association data traffic drops after 802.11r roaming with PMF enabled or optional
<a href="#">CSCvh86845</a>	Cisco Controller is unable to fetch CRL
<a href="#">CSCvh86970</a>	ATF Mesh MIB Memory Leak observed during SNMPWALK from root
<a href="#">CSCvh89195</a>	Unable to set 40MHz bandwidth for either channels 169 or 173 on Cisco 1542E AP
<a href="#">CSCvh89286</a>	Cisco 2802,3802 APs: reloads with watchdog reset(wcpd) after mrvl fwd: Init of radio failed
<a href="#">CSCvh89438</a>	Cisco 8510 WLC SNMP Traps for duplicate IP reported with IP address inversely
<a href="#">CSCvh91290</a>	Cisco Wave 2 APs need to send XID broadcast on client association for FlexConnect local switching
<a href="#">CSCvh94458</a>	Cisco Wave 1 APs last reload reason shows invalid image opcode
<a href="#">CSCvh94755</a>	Client is able to ping management gateway before webauth login
<a href="#">CSCvh95762</a>	Show traplog:Client Enhanced Traps Sent are not included in Number of Traps Since Last Reset
<a href="#">CSCvh96132</a>	Cisco 8.5.110.0 release has many channel changes on XOR 5GHz
<a href="#">CSCvh96192</a>	Cannot enable VLAN Support on AP 1562
<a href="#">CSCvh96895</a>	Cisco 2800,3800,1560 APs: Perform duplicate check of assoc-req in clients with seq number as 0
<a href="#">CSCvh96956</a>	Cisco 2800 AP cannot convert CAPWAP DSCP to 802.11e UP value correctly
<a href="#">CSCvh97469</a>	Cisco Controller reloads unexpectedly with show run-config at commandConfig80211aSpectrumIntfDevList
<a href="#">CSCvh97739</a>	Cisco 2800,3800 APs devshell to trace conversion
<a href="#">CSCvh97977</a>	WLC Local Policy - Client Local Profiling assigns wrong Interface to Client
<a href="#">CSCvh98439</a>	Cisco Controller stopped working while executing <b>config client deauthenticate mac-addr</b> command
<a href="#">CSCvh98496</a>	Fan failure errors seen after upgrade to 8.3.133.10 release
<a href="#">CSCvh99287</a>	Cisco OEAP drops wired client traffic after N+1 failover
<a href="#">CSCvi00786</a>	IPsec stale entry observed with syslog
<a href="#">CSCvi01147</a>	LSC cert keysize not retain after upload/download config
<a href="#">CSCvi01675</a>	New Mobility with 3650MA and 5520 Anchor - Guest users cannot reach DG on 8.3.x
<a href="#">CSCvi01918</a>	Cisco 3702 AP: RRM stall - RF neighbor list empty on both WLC and AP on 5GHz

Caveat ID Number	Description
<a href="#">CSCvi02072</a>	Cisco Wave 2 APs: ETSI 5G adaptive Wi-Fi compliance fix
<a href="#">CSCvi02980</a>	Cisco Controller becomes inaccessible with client rate limiting
<a href="#">CSCvi03114</a>	Cisco 1852 Series APs reloads unexpectedly due to kernel panic
<a href="#">CSCvi04088</a>	Ascom and Cisco 8821 phones on Cisco 3802 AP unable to make calls
<a href="#">CSCvi05095</a>	Cisco 1040 AP in FlexConnect mode: radio reset with '%SOAP_BUF-2'
<a href="#">CSCvi06528</a>	VLAN priority tag inside the EoGRE packet set to non-zero when 802.1p set to none
<a href="#">CSCvi06629</a>	Not able to config the host name to 24 characters
<a href="#">CSCvi07460</a>	WLC is incorrectly returning '5' for snmpwalk on bsnMobileStationApMode OID
<a href="#">CSCvi07565</a>	Cisco 3800AP: Client EAP auth not working with wireless devices which sends certificate in fragments
<a href="#">CSCvi07609</a>	Cisco 5520 WLC experiences fatal dataplane reloads unexpectedly at broffu_fp_dapi_cmd.c:4588
<a href="#">CSCvi08398</a>	Cisco 5500 Controller reloads unexpectedly while adding LSC Dev cert multiple times [GUI or CLI]
<a href="#">CSCvi09025</a>	Msglog flooded 'The Socket send operation has failed on the socket descriptor mgrPhyMgrSock'
<a href="#">CSCvi09095</a>	Radio Reset Tx Jammed seen on both 8.3 and 8.5
<a href="#">CSCvi09153</a>	Cisco Wave 1 APs radio reset due FST14 FW: cmd=0x31 seq=6 due to mcast stuck in radio
<a href="#">CSCvi09424</a>	Layer 3 Roam fails back to L2 Anchor with MAC Filtering MAB
<a href="#">CSCvi11287</a>	Cisco 2800 AP consistently reboots around 1 second after joining to the WLC
<a href="#">CSCvi11609</a>	DNS snooping not working for URL ACL after upgrade to 8.5 release
<a href="#">CSCvi11611</a>	ME - 3802AP had FIQ/NMI reset during rate limiting test
<a href="#">CSCvi12046</a>	FlexConnect AP WLAN-VLAN Mapped incorrectly on AP2800
<a href="#">CSCvi12726</a>	UCAPL: login activity data is mismatched after telnet session
<a href="#">CSCvi13589</a>	Locally generated webadmin certificate shows as 3rd party after upgrade on 8.3 code
<a href="#">CSCvi14638</a>	Rogue BSSID containment count display incomplete
<a href="#">CSCvi14641</a>	Cisco 2802, 3802 APs cannot connect with 100 Mbps LAN speed
<a href="#">CSCvi17079</a>	Cisco Controller on 8.7 code reloads unexpectedly when accessing CMX AP groups over GUI

Caveat ID Number	Description
<a href="#">CSCvi17380</a>	TxFSM stuck on Radio 0 with TCQVerify patch.
<a href="#">CSCvi17786</a>	EoGRE client does not receive IP and stays in DHCP_REQ
<a href="#">CSCvi19706</a>	Cisco 602 AP flapping when 2.4GHz and 5GHz radio are disabled
<a href="#">CSCvi20869</a>	Cisco 1260,3500, 1550 Series APs: heavy packet loss in UDP downstream on 5GHz
<a href="#">CSCvi22594</a>	Cisco DNAC: Adding new WLC successful or existing devices show that inventory poll fails with SNMP issue
<a href="#">CSCvi23698</a>	Cisco 1560 AP on FlexConnect local-sw+802.1x+NAC:-ping traffic not going from client side
<a href="#">CSCvi25420</a>	Cisco Wave 2 APs always send RTS at 6 data rate when data rate is supported
<a href="#">CSCvi25532</a>	Standby 8540 WLC-reloads unexpectedly with rmgrMain due to IPC timeout
<a href="#">CSCvi25724</a>	Cisco IOS APs unexpectedly reloads due to bad CPQ on 8.5 release code
<a href="#">CSCvi27226</a>	Cisco 3802 AP: Radio core - receive path hang - RX-RING-STUCK
<a href="#">CSCvi29775</a>	Cisco 8510 controller experiences DP0 CORE 9 Dataplane crash and reloads unexpectedly
<a href="#">CSCvi30627</a>	Config missing after WLC failover
<a href="#">CSCvi30899</a>	WLC 8.5 - AP fails to join the WLC when QA country code is used (-E AP)
<a href="#">CSCvi30993</a>	Lost neighbor AP field on WLC GUI - NEIGHBOR AND ROGUE APS
<a href="#">CSCvi31343</a>	Cisco WLC HA pair continues to reload unexpectedly due to system crash on broffu_SocketReceive
<a href="#">CSCvi32951</a>	Cisco Wave 2 APs go offchannel if scan deferral value > 255 msec.
<a href="#">CSCvi33105</a>	ODU sensor issue: WSA process disappeared after edit/delete/create of tests
<a href="#">CSCvi33984</a>	HA pair does not sync VLAN support configuration for Cisco Mesh APs
<a href="#">CSCvi34440</a>	Secondary Cisco 3504 WLC reloads unexpectedly in a loop
<a href="#">CSCvi36032</a>	Missing AVC records on JSON data export from WLC 8.5 in FEW or Flex mode
<a href="#">CSCvi37522</a>	Primary Cisco 5500 WLC on 8.5.124.22 reloads unexpectedly while joining AP due to 'Switchdrv exited'
<a href="#">CSCvi38017</a>	Standby WLC goes into a reboot loop after the software upgrade
<a href="#">CSCvi42526</a>	Cisco Mesh 1562AP: AP will not go into bridge mode for I domain
<a href="#">CSCvi42919</a>	Cisco 702w AP - Radio resets with ath_ACIF_radio_dead message

Caveat ID Number	Description
<a href="#">CSCvi42929</a>	Sensor: webauth test failing in 1800 platform due to EOF occurred in violation of protocol
<a href="#">CSCvi43963</a>	AP1562D to AP1562D bridge does not transmit fragmented traffic on 8.5.120.0
<a href="#">CSCvi45088</a>	Cisco 2800, 3800 APs: adjust NDP pkt transmission power level
<a href="#">CSCvi45149</a>	No RSSI/SNR info displayed with show client detail
<a href="#">CSCvi46306</a>	Cisco 8510, 8540 controller on 8.5.124.27: Observed a traceback on booting up the image
<a href="#">CSCvi48427</a>	'Enable DHCP Option 82 - VPN select' setting is lost after WLC reload
<a href="#">CSCvi49059</a>	[FALL WLC BUNDLE] NO CVE Cisco Wireless LAN Controller Privilege Escalation Vulnerability
<a href="#">CSCvi49114</a>	Cisco 3700 AP: memory allocation issue on IOS AP
<a href="#">CSCvi49126</a>	RSN IE validation fails in M2 (802.11r session timeout) after reassociation causing death code 17
<a href="#">CSCvi49590</a>	Bad phase calibration values in Triggerfish EEPROM
<a href="#">CSCvi50929</a>	Cisco 3504 WLC reloads unexpectedly on 8.6.101 release
<a href="#">CSCvi51372</a>	Client unable to reach RUN state on anchor WLC with 802.1x + ISE NAC
<a href="#">CSCvi51536</a>	Access Point is not sending TCP fragments over the air
<a href="#">CSCvi51858</a>	WLC not sending proper VSA list at acct-stop when client moves to another SSID
<a href="#">CSCvi53601</a>	New Mobility Anchor Controller unexpectedly reboots with Task Name: mcListen
<a href="#">CSCvi54067</a>	Cisco Wave 2 APs do not clear client statistics after device removed from client's database
<a href="#">CSCvi56046</a>	Cisco 1560 RAP after reboot will lose the VLAN support configuration.
<a href="#">CSCvi56738</a>	IW3702 on auto-bridge mode not preserving channel width more than 20MHz
<a href="#">CSCvi57043</a>	WLC: WLC hang suddenly without crash file, osapiReaper accessing file that does not exist
<a href="#">CSCvi57169</a>	SDA-Wireless AAA Override VNID ID is lost when roaming from one AP Group to another
<a href="#">CSCvi57213</a>	Cisco 1832 AP unexpectedly reloads with 'PC is at __napi_complete+0x28/0x60'
<a href="#">CSCvi57232</a>	CAP1815w-specific VLAN override RLAN fails, SSID FlexConnect VLAN takes precedence after AP reboot
<a href="#">CSCvi59432</a>	Creation time of Local Net User set to Jan 1 00:00:00 1970

Caveat ID Number	Description
<a href="#">CSCvi61401</a>	WLC remote access failing after upgrade
<a href="#">CSCvi65222</a>	dot11 arp-cache does not work if BVI VLAN and client VLAN are different
<a href="#">CSCvi67365</a>	Cisco 1850,3800AP: WPA_suppllicant process reloads unexpectedly when used by WSA feature
<a href="#">CSCvi67565</a>	TrustSec: AP picks wrong SXP Node ID
<a href="#">CSCvi69201</a>	Line <b>config wlan wifidirect xconnect-not-allow wlan-id</b> manually entered in config backup is rejected
<a href="#">CSCvi70783</a>	Wireless Service Assurance WSA: Cisco DNA Assurance certificate is not updated on WLC
<a href="#">CSCvi72800</a>	Polaris COS-APs not correctly marking traffic when set/match policies and using multiple class-maps
<a href="#">CSCvi73013</a>	Cisco Wave 1 AP deauthenticating client due to idle timeout
<a href="#">CSCvi73402</a>	Cisco 1810W AP not giving IPs to cell phones using WPA/TKIP protocol
<a href="#">CSCvi74683</a>	AIR-CT3504 mGig showing FCS errors incrementing
<a href="#">CSCvi78286</a>	WLC Dashboard does not display the correct values for client throughput
<a href="#">CSCvi78819</a>	HA : config service statistics not synced after failover
<a href="#">CSCvi79851</a>	CPU ACL not configured after upgrading to Cisco 8.5.120.0 release
<a href="#">CSCvi81204</a>	Cisco 2800, 3800 APs MTU issue with Fabric enable network
<a href="#">CSCvi84511</a>	Cisco 3800 AP with Wired1 (aux) LAN enabled - CDP-4-DUPLEX_MISMATCH messages constantly logged
<a href="#">CSCvi84843</a>	Client filter matches WLAN SSID, not WLAN Profile or WLAN ID
<a href="#">CSCvi84849</a>	Cisco 1852 series APs unexpectedly reloads due to Kernel Panic
<a href="#">CSCvi85464</a>	AP specific configuration lost post AP reload; WLAN-ACL mappings and policies lost
<a href="#">CSCvi85834</a>	New Mobility CAPWAP control keepalive should not plumb keys when receiving unencrypted responses
<a href="#">CSCvi86276</a>	Cisco WLC reloads unexpectedly on emWeb due to too many HTTP buffers received
<a href="#">CSCvi86834</a>	Mesh Ethernet bridging - wired client associated to MAP fails to pass traffic over tagged VLAN
<a href="#">CSCvi90766</a>	Cisco AP with regulatory domain Morocco cannot join the Cisco WLC
<a href="#">CSCvi91017</a>	The FlexConnect groups are missing in backup configuration file

Caveat ID Number	Description
<a href="#">CSCvi91285</a>	Install mapping on radio backhaul for Wave 2 APs Flex+Bridge setting is not retained after reboot
<a href="#">CSCvi93045</a>	Cisco 2800 AP CleanAir goes down (sensord died)
<a href="#">CSCvi96690</a>	Cisco 2800 AP detects Intel Dual Band Wireless-AC 8260 as rogue client/AP
<a href="#">CSCvi97023</a>	Cisco Wireless LAN Controller Cross-Site Scripting Vulnerability
<a href="#">CSCvi97282</a>	Assigning a NetFlow monitor to the WLAN will internally enable AVC on WLC
<a href="#">CSCvi98357</a>	Cisco AP1815I : reloads unexpectedly due to 'watchdog reset(sync_log)'
<a href="#">CSCvi98514</a>	MAP Ethernet port comes up as TRUNK and Allowed VLAN 4095
<a href="#">CSCvj03021</a>	After upgrade the AP VLAN Trunking config changed to Disabled state
<a href="#">CSCvj03161</a>	IOS AP not reporting known interference with disabled WSSI module
<a href="#">CSCvj04401</a>	Client remains stuck in DHCP-REQD state on Anchor side unless ISE NAC is disabled on the anchor side
<a href="#">CSCvj07190</a>	Cisco 2800 AP not joining WLC if 'Enable NAT Address' feature is enabled
<a href="#">CSCvj07930</a>	Cisco 3802, 2802 AP with DART connectors has a Tx power value of 0
<a href="#">CSCvj11251</a>	Cisco 2802 AP not sending re-association response to Cisco 8821 phone
<a href="#">CSCvj11270</a>	Watchdog reset out of memory on Cisco 3800 AP running 8.3.133.0 code
<a href="#">CSCvj11397</a>	Cisco 3504 Controller - OpenDNS registration failure - Return 77
<a href="#">CSCvj13920</a>	WLC system reloads unexpectedly due to task name RRM-MGR-2_4-GRP
<a href="#">CSCvj13958</a>	Cisco Wave 2 3800,2800 APs sending beacon on wrong channels intermittently on 5GHz
<a href="#">CSCvj17181</a>	Creating a webauth CSR cert on the WLC GUI does not allow spaces
<a href="#">CSCvj18004</a>	8.5MR3 Interim AP cannot join with NAT address on management interface of controller
<a href="#">CSCvj25194</a>	Clean up debug lisp map-server output for AP onboarding
<a href="#">CSCvj25768</a>	Bridge mode Cisco Wave 2 Mesh APs bridging issues
<a href="#">CSCvj25842</a>	Cisco 1815I AP: Kernel panic: PC is at vfs_read+0x14/0x134
<a href="#">CSCvj28658</a>	Cisco 1810wAP kernel panic leads to unexpected reload on PC at ieee80211_node_authorize+0x90/0xb8
<a href="#">CSCvj29270</a>	Flex AP's WLAN-VLAN mapping mismatch in multiple WLC scenarios
<a href="#">CSCvj30550</a>	Cisco WLC reloads unexpectedly when configuring PSK Provisioning key

Caveat ID Number	Description
<a href="#">CSCvj32624</a>	702 AP as WGB keeps being disconnected from the WLAN due to parent lost: Missed beacons
<a href="#">CSCvj32964</a>	WGB is only allowing 8 MAC addresses pass traffic using 3802 AP [as CAPWAP AP and 3702 AP as WGB]
<a href="#">CSCvj33894</a>	Add 'show advanced hyperlocation summary' to 'show run-config' and 'show tech'
<a href="#">CSCvj35883</a>	Allow Cisco 2800, 3800 APs to be able to convert to sensor mode
<a href="#">CSCvj36633</a>	Cisco IOS AP: fail to boot after upgrade due to file corruption
<a href="#">CSCvj36853</a>	AP name corruption after upgrade
<a href="#">CSCvj36923</a>	Cisco AP name mismatch with controller on join
<a href="#">CSCvj37393</a>	Cisco Wave 2 APs not sending probe response when SSID is not broadcast
<a href="#">CSCvj38456</a>	WLC is losing its EoGRE configuration after reboot
<a href="#">CSCvj39005</a>	[SDA] Wireless Clients losing L2VNID override when performing Switchover on Cisco 5520 WLC
<a href="#">CSCvj41040</a>	Cisco 1800 APs in Cisco FlexConnect mode, fail FT roam
<a href="#">CSCvj41853</a>	Incorrect Tx power on AP3802P-Q on some channels
<a href="#">CSCvj44533</a>	SSH CBC ciphers are present from 8.6 and onwards releases
<a href="#">CSCvj45550</a>	Cisco 1800 AP is appearing again in unclaim list after PnP provision
<a href="#">CSCvj47445</a>	Cisco WLC sending CAPWAP discovery response when it has no available licenses
<a href="#">CSCvj48364</a>	Cisco Controller is generating client traps without a session-id
<a href="#">CSCvj50170</a>	Client coming back within 10 seconds of cleanup time is stopping the DHCP timer on the WLC
<a href="#">CSCvj53743</a>	Cisco 1572IC AP: Channels and Maximum Power Settings settings spreadsheet incorrect values for V02
<a href="#">CSCvj54432</a>	Cisco WLC unexpectedly reloads on task Dot1x_NW_MsgTask_2
<a href="#">CSCvj61140</a>	Having Sensor-Driven tests configured cause 3802I AP to intermittent unexpected reload
<a href="#">CSCvj62672</a>	WLC sending wrong NAS ID when AAA override is enabled
<a href="#">CSCvj69146</a>	CME reloads unexpectedly in a loop due to PMALLOC_DOUBLE_FREE (capwap_ac_sm.c)
<a href="#">CSCvj70569</a>	Cisco 2800, 3800,4800 APs: Incorrect Tx power on power on till we configure Tx power using Cisco WLC

Caveat ID Number	Description
<a href="#">CSCvj72890</a>	Cisco 5520 WLC reloads unexpectedly when RADIUS server returns invalid value in Airespace-ACL-Name
<a href="#">CSCvj76378</a>	Local policy is not applied when foreign WLC is running 8.3.141.0
<a href="#">CSCvj77078</a>	WLC unexpectedly reboots on Dot1x_NW_MsgTask_1
<a href="#">CSCvj79108</a>	WSA-8.5- NAC restarted with signal 6 after few minutes of WSA enabled in scale setup
<a href="#">CSCvj80388</a>	Flex-ACL on Wave 2 AP's denying host instead of subnet
<a href="#">CSCvj83460</a>	Cisco OEAP: client not associating for local SSID for default DHCP
<a href="#">CSCvj95336</a>	Cisco Wireless LAN Controller Software Information Disclosure Vulnerability
<a href="#">CSCvk02024</a>	Cisco 1850 APs experiencing frequent and unexpected reloads due to memory corruption
<a href="#">CSCvk05150</a>	OpenDNS profile keeps being mapped for client when the username changes
<a href="#">CSCvk05965</a>	Cisco WLC in HA SSO: standby controller is in a reboot loop
<a href="#">CSCvk06178</a>	Uplink BPDUs are not bridged
<a href="#">CSCvk09135</a>	Cisco 5520 Controller reloads unexpectedly for emweb in 8.6.101.0 release
<a href="#">CSCvk15068</a>	IOS APs, recovery logic for MD5 checksum failure on primary Image
<a href="#">CSCvk15165</a>	Cisco Controller reloads unexpectedly after modifying SNMP trap controls via GUI
<a href="#">CSCvk20484</a>	IPC timeout and tracebacks reported on HA pair running 8.5.131.0 (8.5MR3)
<a href="#">CSCvk25644</a>	WLC HA standby reboots reaching maintenance mode due to missing NaServCaCert_p12.pem on Active
<a href="#">CSCvk26732</a>	New Flash recovery logic

## 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 Mobility Services Engine**

[Cisco Mobility Services Engine 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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- 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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