Release Notes for Cisco Mobility Express, Cisco Wireless Release 8.4.100.0

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Introduction

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These release notes describe what is new or changed in the 8.4.100.0 8.7.102.0 and 8.7.106.0 release, instructions to upgrade to this release, and open and resolved caveats for this release. These release notes are updated as needed to provide information about new features, caveats, potential software deferrals, and related documents.

The Cisco Mobility Express network solution inherits all features that were released prior to the introduction of the Cisco Wireless Release 8.4.100.0 8.7.102.0 and 8.7.106.0 with a few exceptions. For information about inherited features that were introduced prior to this release, see the *Existing Features* section of the Cisco Mobility Express User Guide, Cisco Wireless Release 8.4 .

Note The Cisco Mobility Express wireless network solution is available starting from Cisco Wireless Release 8.1.122.0.

We recommend that you view the field notices for this release to check whether your software or hardware platforms are affected. If you have an account on Cisco.com, you can find the field notices at: http://www.cisco.com/en/US/customer/support/tsd_products_field_notice_summary.html.

However, if you do not have a Cisco.com account, you can find the field notices at: http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.

Overview of Cisco Mobility Express

The Cisco Mobility Express wireless network solution comprises of at least one 802.11ac Wave 2 Cisco Aironet Series access point (AP) with an in-built software-based wireless controller (WLC) managing other APs in the network.

The AP acting as the WLC is referred to as the master AP while the other APs in the Cisco Mobility Express network, which are managed by this master AP, are referred to as subordinate APs.

In addition to acting as a WLC, the master AP also operates as an AP to serve clients along with the subordinate APs.

Cisco Mobility Express provides most features of a Cisco WLC and has the capability to interface with the following:

- Cisco Prime Infrastructure—For simplified network management, including managing AP groups
- Cisco Identity Services Engine—For advanced policy enforcement
- Connected Mobile Experiences (CMX)—For providing presence analytics and guest access using Connect & Engage

For more information about the Cisco Mobility Express solution, including its setup and configuration, see the Cisco Mobility Express User Guide for Release 8.4.

Supported Cisco Access Points

The following Cisco Aironet Series APs are supported in the Cisco Mobility Express network:

Note

- APs listed under master APs can also function as subordinate APs.
- The software on the APs listed under master APs can be converted from Cisco Mobility Express to CAPWAP Lightweight AP software and vice versa. For ordering information, visit the Cisco Aironet Access Points Ordering Guide

Table 1: Cisco APs Supported in Cisco Mobility Express

Master APs	Subordinate APs
Cisco Aironet 1560 Series	Cisco Aironet 700i Series
Cisco Aironet 1815i	Cisco Aironet 700w Series
Cisco Aironet 1815w	Cisco Aironet 1600 Series
Cisco Aironet 1830 Series	Cisco Aironet 1700 Series
Cisco Aironet 1850 Series	Cisco Aironet 1810W Series
Cisco Aironet 2800 Series	Cisco Aironet 2600 Series
Cisco Aironet 3800 Series	Cisco Aironet 2700 Series
	Cisco Aironet 3500 Series
	Cisco Aironet 3600 Series
	Cisco Aironet 3700 Series

New and Changed Features

- Increased scale upto 100 APs and 2000 clients depending on the master AP
- Automatic day 0 provisioning of the master AP through the Cisco Network Plug and Play (PnP) solution
- Enable suggestions for enhancements via **Make a wish** in the GUI
- Application control through AVC
- Additional control to advanced users through the **Expert View** in the GUI
- WLAN enhancements in the GUI with provisions for the following:
  - External web authentication for guest WLANs
  - MAC filtering
  - Hiding the WLAN SSID by disabling broadcast
  - Supporting 802.11k and 802.11v and adaptive 802.11r
  - Enabling or disabling client band select and load balancing
- QoS Fastlane, for iOS application traffic (like voice or video) prioritization, configurable from the CLI
- Improved serviceability options in the GUI
  - Ability to collect, bundle, and export the support bundle (logs, core, and crash files) for troubleshooting
  - Operational troubleshooting tools such as checks for ping, DNS resolution, internet access, and RADIUS server response
- Support for controlled access lobby ambassador account to create and manage guest user accounts

Compatibility of Cisco Mobility Express with Other Cisco Wireless Solutions

For Cisco Mobility Express solution software compatibility information, see the Cisco Wireless Solutions Software Compatibility Matrix.

Cisco Mobility Express Software Release Information

The following table lists the Cisco Wireless Release 8.4.100.0 software for Cisco Aironet APs that are Cisco Mobility Express capable (master APs).

Choose the appropriate AP software based on the following:

- Cisco Mobility Express software to be used for converting the AP from the unified wireless network CAPWAP lightweight AP to a Cisco Mobility Express-capable AP (master AP)
- AP software image bundle to be used either for upgrading the Cisco Mobility Express software on the master AP or for updating the software on the subordinate APs or both

Prior to ordering these Cisco Aironet APs, visit the Cisco Aironet Access Points Ordering Guide.

Table 2: Cisco Mobility Express Software for Cisco Aironet APs

Master AP	AP Software for Conversion from CAPWAP to Cisco Mobility Express	AP Software Image Bundle for Upgrade	AP Software in the Bundle
Cisco Aironet 1560 series	AIR-AP1560-K9-8-4-100-0.tar	AIR-AP1560-K9-ME-8-4-100-0.zip	ap3g3
Cisco Aironet 1815i series	AIR-AP1815i-K9-8-4-100-0.tar	AIR-AP1815-K9-ME-8-4-100-0.zip	ap1g5
Cisco Aironet 1815w series	AIR-AP1815w-K9-8-4-100-0.tar	AIR-AP1815w-K9-ME-8-4-100-0.zip	ap1g5
Cisco Aironet 1830 series	AIR-AP1830-K9-8-4-100-0.tar	AIR-AP1830-K9-ME-8-4-100-0.zip	ap1g4
Cisco Aironet 1850 series	AIR-AP1850-K9-8-4-100-0.tar	AIR-AP1850-K9-ME-8-4-100-0.zip	ap1g4
Cisco Aironet 2800 series	AIR-AP2800-K9-8-4-100-0.tar	AIR-AP2800-K9-ME-8-4-100-0.zip	ap3g3
Cisco Aironet 3800 series	AIR-AP3800-K9-8-4-100-0.tar	AIR-AP3800-K9-ME-8-4-100-0.zip	ap3g3

Installing Cisco Mobility Express Software

For software installation instructions, see the “Getting Started” section in the *Cisco Mobility Express User Guide for Release 8.4*.

Limitations and Caveats

Known Limitations

- You may face issues upgrading the Cisco Mobility Express software image from Cisco Wireless Release 8.3.102.0 to Cisco Wireless Release 8.4.100.0 on the following master APs:
  - Cisco Aironet 1560 series APs

- Cisco Aironet 2800 series APs
- Cisco Aironet 3800 series APs

This issue can be resolved by following the instructions in the order given below:

- Upgrade the Cisco Mobility Express software image on the affected AP from Cisco Wireless Release 8.3.102.0 to Cisco Wireless Release 8.3.112.0 or later.
- Now, upgrade the Cisco Mobility Express software image on the above AP from Cisco Wireless Release 8.3.112.0 to Cisco Wireless Release 8.4.100.0.

- Applying AVC policies on YouTube maybe bypassed if the browser used is Google Chrome.
- If the Cisco AP has a Cisco Mobility Express software image, it will not support link aggregation groups (LAG) even if it is 802.3ad (LACP)-compliant.
- Over-the-DS fast BSS transition and fast transition PSK authentication are not supported.
- Optimized Roaming and low RSSI check are not supported.

Caveats

Caveats describe unexpected behavior in the Cisco Mobility Express network solution. Severity 1 caveats are the most serious while Severity 2 caveats are less serious. Severity 3 caveats are moderately serious and only select severity 3 caveats are listed here.

The #unique_9 and #unique_10 sections list the caveats in the Cisco Mobility Express network solution for Cisco Wireless Release 8.4.100.0. The following information is provided for each caveat:

- Identifier—Each caveat is assigned a unique identifier (ID) with a pattern of CSCxxNNNNN, where x is any letter (a-z) and N is any number (0-9). These IDs are frequently referenced in Cisco documentation, such as Security Advisories, Field Notices and other Cisco support documents. Technical Assistance Center (TAC) engineers or other Cisco staff can also provide you with the ID for a specific caveat.
- Description—A description of what is observed when the caveat occurs.

Cisco Bug Search Tool

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

For more information about how to use the Cisco Bug Search Tool effectively, including how to set email alerts for bugs, filter bugs, and save bugs and searches, see the Bug Search Tool Help & FAQ page.

You can access the listed bugs through the BST. This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in the Cisco Mobility Express network solution and other Cisco hardware and software products.

Click the Caveat Identifier number in the table. The corresponding BST page is displayed with details of the bug.

Note If you are not logged in, you will be redirected to a **Log In** page where you need to enter your registered Cisco.com username and password to log In. If you do not have a Cisco.com account, you can register for one.

If the defect that you have selected cannot be displayed, this may be due to one or more of the following reasons:

- The defect number does not exist
- The defect does not have a customer-visible description yet
- The defect has been marked Cisco Confidential

Resolved Caveats

This section lists the caveats that have been resolved in Cisco Wireless Release 8.4.100.0.

Table 3: Cisco Mobility Express Resolved Caveats

Caveat Identifier	Caveat Description
CSCuw45964	Cisco Mobility Express user gets logged out while editing a WLAN in HTTP session
CSCuz74953	CLI console message states log cannot be deleted if upgrade is aborted from Cisco Mobility Express GUI
CSCva30962	Unwanted message on Cisco Mobility Express master AP's console on reboot
CSCva43211	Unable to import config file in to master AP as other Cisco Mobility Express-capable APs become master
CSCva51719	QoS profile and priority mismatch in 1850 as master AP in Cisco Mobility Express setup
CSCvb25232	WLAN: SSID with Local auth and RADIUS do not work together
CSCvb76225	Internal DHCP scope on master AP 3800 changes to non management after configuration import to AP
CSCvb79241	Incorrect **show inventory** output for master AP's version ID and name compared to manufacturing info
CSCvb80188	After image download aborts on existing master, cannot convert any Cisco Mobility Express-capable AP to master using GUI
CSCvc72972	Unable to convert to Cisco Mobility Express if any non-Cisco Mobility Express controllers are in the same VLAN
CSCvd72664	Cisco Mobility Express AP occasionally tags 802.1q VLAN for native WLAN causing ARP packet drop

Open Caveats

This section lists the open caveats in Cisco Wireless Release 8.4.100.0. These caveats apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.

Table 4: Cisco Mobility Express Open Caveats

Caveat Identifier	Caveat Description
CSCvc81634	Erroneous latest version (8.4) appears on Cisco Mobility Express software update page
CSCvd10363	Config uploads and downloads are not allowed in Cisco Mobility Express after flash error message
CSCvd36259	2802 master AP intermittently sends keepalive to wrong AP making the AP switch to Discover mode
CSCvd43452	1832I AP crash in Cisco Mobility Express setup: PC is at vfp_reload_hw+0x30/0x44 kernel Panic crash
CSCvd53654	Cisco Mobility Express master AP crashes during upgrade via TFTP (httpImgDwnldTask4)
CSCvd54154	All AP1850 connected to master AP crash in a loop due to watchdog reset, qcom_wdt bark! 696.364979
CSCvd67730	Client fails PSK SSID authentication after master AP reboot (EAPOL M3 not sent on 4-way handshake)
CSCvd68510	Continuously increasing memory utilization in Cisco Mobility Express master AP (with CMX unreachability)
CSCve19960	AP ping repeat count is abnormal in Cisco Mobility Express
CSCve22001	Default value of WLAN parameter is changed after configuration is restored in Cisco Mobility Express
CSCve24313	Internal AP in Cisco Mobility Express loses timezone (in SSH) after reboot
CSCve26592	Cisco Mobility Express master (internal) AP is unable to join the controller

Service and Support

For all support-related information, see http://www.cisco.com/c/en/us/support/index.html.

Related Documentation

Cisco Mobility Express

- Cisco Mobility Express User Guide
- Cisco Mobility Express Command Reference
- Cisco Mobility Express Deployment Guide

Additional References

- The quick start guide or installation guide for your specific Cisco AP
- Cisco Wireless Solutions Software Compatibility Matrix
- Cisco Aironet Access Points Ordering Guide
- Cisco Aironet Universal AP Priming and Cisco AirProvision User Guide
- Cisco Wireless Products Comparison Tool

For more information about Cisco Mobility Express, visit http://www.cisco.com/go/mobilityexpress.

Obtaining Documentation and Submitting a Service Request

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

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