

Release Notes for Cisco Mobility Express, Cisco Wireless Release 8.7.102.0 and 8.7.106.0

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Introduction



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These release notes describe what is new or changed in the 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 8.7.102.0 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 8.7](#).



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, Release 8.7](#).

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 1540 Series	Cisco Aironet 1700 Series
Cisco Aironet 1560 Series	Cisco Aironet 1800i
Cisco Aironet 1815i	Cisco Aironet 1810w
Cisco Aironet 1815m	Cisco Aironet 2700 Series
Cisco Aironet 1815w	Cisco Aironet 3700 Series
Cisco Aironet 1830 Series	Cisco Industrial Wireless 3702
Cisco Aironet 1850 Series	Cisco Aironet 700i
Cisco Aironet 2800 Series	Cisco Aironet 700w
Cisco Aironet 3800 Series	

Maximum APs and Clients Supported

Depending on the master AP in the Cisco Mobility Express network, the maximum number of APs and clients supported varies. For more information about the APs supported in the Cisco Mobility Express network, see [Supported Cisco Access Points, on page 2](#).

Table 2: Scale Supported in Cisco Mobility Express Network

Master AP Model	Maximum APs Supported	Maximum Clients Supported
Cisco Aironet 1540 Series	50	1000
Cisco Aironet 1560 Series	100	2000
Cisco Aironet 1815i	50	1000
Cisco Aironet 1815m	50	1000
Cisco Aironet 1815w	50	1000
Cisco Aironet 2800 Series	100	2000
Cisco Aironet 3800 Series	100	2000



Note If there are more than 25 Access Points in a Mobility Express network, the Master AP (running the Wireless LAN controller function) can service a maximum of 20 clients. This limit only applies to Master AP and not any other Access Point in the Mobility Express network.

New and Changed Features

- GUI enhancements with the following provisions:
 - Software Update via SFTP
 - DNS Pre-Auth ACLs
 - Passive client support
 - Remote LAN support for APs with multiple ethernet ports
 - Wireless Service Assurance enhancement
 - AAA override of VLAN name and VLAN name-id template
 - Limit clients per AP radio or WLAN
 - Bidirectional rate limiting per WLAN, client, and BSSID
 - Dynamic OID update

- Additional security options in WLAN:
 - Central web authentication (CWA) with change of authorization (CoA)
 - Single SSID configuration for BYOD devices.
- Image download improvements, including initial setup (Day 0)
- Upload OUI, EAP Device Certificate, and EAP CA Certificate

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 8.7.102.0 and 8.7.106.0 software for Cisco Aironet APs that are Cisco Mobility Express capable (master APs).



Note

- After updating the Cisco Mobility Express software, clear your browser cache before continuing use. Do either of the following before using the Cisco Mobility Express GUI after the software update:
 - Restart your browser and log in to the GUI.
 - Log out from the GUI and login again.
- 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 3: 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 1540 series	AIR-AP1540-K9-8-7-102-0.tar	AIR-AP1540-K9-ME-8-7-102-0.zip	ap1g5
Cisco Aironet 1560 series	AIR-AP1560-K9-8-7-102-0.tar	AIR-AP1560-K9-ME-8-7-102-0.zip	ap3g3
Cisco Aironet 1815 series	AIR-AP1815-K9-8-7-102-0.tar	AIR-AP1815-K9-ME-8-7-102-0.zip	ap1g5
Cisco Aironet 1830 series	AIR-AP1830-K9-8-7-102-0.tar	AIR-AP1830-K9-ME-8-7-102-0.zip	ap1g4

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 1850 series	AIR-AP1850-K9-8-7-102-0.tar	AIR-AP1850-K9-ME-8-7-102-0.zip	ap1g4
Cisco Aironet 2800 series	AIR-AP2800-K9-8-7-102-0.tar	AIR-AP2800-K9-ME-8-7-102-0.zip	ap3g3
Cisco Aironet 3800 series	AIR-AP3800-K9-8-7-102-0.tar	AIR-AP3800-K9-ME-8-7-102-0.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 8.7*.

Limitations and Caveats

Known Limitations

- If you have IPv6 flex ACLs configured in the Cisco Mobility Express network, you may face issues downgrading the Cisco Mobility Express software image from Cisco Wireless Release 8.7.102.0 or newer to Cisco Wireless Release 8.6.101.0 or older.

This issue can be resolved by removing all IPv6 ACLs as these are not supported in Cisco Mobility Express, Release 8.6.101.0 or older.

- 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 [Resolved Caveats, on page 7](#) and [Open Caveats, on page 6](#) sections list the caveats in the Cisco Mobility Express network solution for Cisco Wireless Release 8.7.102.0. 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

Open Caveats

This section lists the open caveats in Cisco Wireless Release 8.7.102.0 and 8.7.106.0. 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 in Cisco Wireless Release 8.7.106.0

Caveat Identifier	Caveat Description
CSCvj51168	Duplicate AP entries are shown on GUI when APs are moved from one group to another
CSCvj53435	Pre-auth ACLs are not applied to the system for Central Web Auth WLAN
CSCvj55873	Console idle timeout is not working as expected on AP4800 as Cisco Mobility Express
CSCvj61986	Conversion from CAPWAP to Cisco Mobility Express is failing. Reload to fix the issue.

Table 5: Cisco Mobility Express: Open Caveats in Cisco Wireless Release 8.7.102.0

Caveat Identifier	Caveat Description
CSCvh24354	Cisco Mobility Express: Cisco AP1800 disconnects the client during EAP negotiation with the message MN_REASSOC_TIMEOUT
CSCvh81525	Wireless client is unable to access Cisco Mobility Express GUI or SSH when the client is connected to the Master AP
CSCvi38460	Cisco Mobility Express: Cisco AP3802 acting as master AP crashes due to switchdrv watchdog reset

Resolved Caveats

This section lists the caveats that have been resolved in Cisco Wireless Release 8.7.102.0 and 8.7.106.0.

Table 6: Cisco Mobility Express: Resolved Caveats in Cisco Wireless Release 8.7.102.0 and 8.7.106.0

Caveat ID Number	Description
CSCvd91170	Cisco Mobility Express: Add a checking mechanism to prevent the assignment of the same IP address to the controller and internal AP of the master AP
CSCvf09648	SNMP traps are needed for Cisco Mobility Express master failover
CSCvg17259	VRRP in Cisco Mobility Express lacks MAC address conflict detection
CSCvg58266	Cisco Mobility Express crashed with the task name emweb while configuring an invalid RADIUS accounting server
CSCvh49820	WLAN is disabled after editing it via the Cisco Mobility Express GUI as the PSK assigned to the WLAN is lost
CSCvh59834	Cisco Mobility Express: Cannot change the role of XOR radio from auto to manual on Cisco AP2802E without DART
CSCvi39854	Cisco Mobility Express: HEAP memory leak occurs when internal DHCP scopes are used
CSCvi42743	Cisco Mobility Express: Image upgrade process does not progress and the slave AP stays stuck at Initiated status

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 Deployment Guide](#)

- [Cisco Mobility Express User Guide](#)
- [Cisco Mobility Express Command Reference](#)

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>.

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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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