



Release Notes for Cisco CMX, Release 10.1.2

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These release notes describe what is new in Cisco Connected Mobile Experiences (Cisco CMX), Release 10.1.2, and the system requirements, upgrade scenarios, and open caveats for this release. Unless otherwise noted, Cisco Connected Mobile Experiences is referred to as Cisco CMX in this document.

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Introduction

Cisco CMX is a newly redesigned, high-performing scalable software platform that addresses the mobility services requirements of high-density Wi-Fi deployments.



System Requirement

Cisco CMX can be installed on a physical or virtual Cisco Mobility Services Engine (Cisco MSE) appliance. Virtual Cisco MSE appliances require VMware ESXi 5.1 or later.

Hardware Guidelines

Table 1 lists the Cisco CMX, Release 10.1.2 hardware guidelines for a virtual Cisco MSE appliance.

Table 1 Hardware Guidelines

| Hardware Platform | Basic Appliance | Standard Appliance | High-End Appliance |
|-------------------|-----------------------|------------------------|------------------------|
| CPU | 8 vCPU (2.4 GHz core) | 16 vCPU (2.4 GHz core) | 20 vCPU (2.4 GHz core) |
| RAM | 24 GB | 32 GB | 64 GB |
| HDD | 500 GB | 500 GB | 1 TB |

Browser Support

Cisco CMX, Release 10.1.2 has been tested using the following browser:

- Google Chrome 40 and later

Solution Compatibility Matrix

Table 2 lists the Cisco CMX 10.1.2 solution compatibility matrix.

Table 2 Cisco CMX Solution Compatibility Matrix

| Platform | Cisco Prime Infrastructure | Cisco WLC | Converged Access |
|--|--|-----------|------------------|
| Cisco MSE Virtual Appliance cisco_cmx-10.1.2.tar.gz | Any maps exported from Cisco Prime Infrastructure are imported into the Cisco CMX. See the “Important Notes” section on page 6. | 8.x | 3.6.1 |
| Cisco MSE Virtual Appliance cisco_cmx-10.1.1-2.tar.gz | | 7.x | 3.7.0 |
| Cisco MSE Virtual Appliance 10.1.0-rc.22 | | | |
| Cisco MSE 3365 | | | |

Upgrading Cisco CMX

Cisco CMX is available as software that can be run on physical or virtual Cisco MSE appliances. No database migration on inline upgrade is supported from Cisco MSE 8.0 or earlier to CMX 10.1. You can upgrade from Cisco CMX 10.0, 10.1, or 10.1.1 to Cisco CMX 10.1.2. We recommend that you run Cisco CMX 10.1.2 in parallel with the existing Cisco MSE 8.0 or earlier, and utilize the evaluation license for 120 days. After the evaluation period, you have an option to decommission the older Cisco MSE system.

This section contains the following topics:

- [Upgrading Cisco CMX 10.0 to Cisco CMX 10.1.2, page 3](#)
- [Upgrading Cisco CMX 10.1 or 10.1.1 to Cisco CMX 10.1.2, page 3](#)

Upgrading Cisco CMX 10.0 to Cisco CMX 10.1.2

You can upgrade Cisco CMX 10.0 to Cisco CMX 10.1.2, which is the Cisco-supported version of Cisco CMX, by using one of the following options:

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- Step 1** Complete the reinstallation of the new OVA file.
 - Step 2** Contact your local SE or Account team and obtain an RPM and information about the procedure to upgrade to 10.1.2.
-

Upgrading Cisco CMX 10.1 or 10.1.1 to Cisco CMX 10.1.2

To upgrade a Release 10.1 or 10.1.1 deployment to Release 10.1.2, perform the following steps:

-
- Step 1** Take a snapshot of the Virtual Machine if restore is required.
 - Step 2** Enter the following commands:

```
cmxctl stop
cmxctl stop -a
ps -ef
```



Note Ensure that all Cisco CMX services are stopped, if not, you need to kill the services.

```
cd /tmp/
```

- Step 3** Download the CMX 10.1.2 tar ball and enter the following commands:



Note Manually enter these commands and do not copy/paste them.

```
tar xvfz cisco_cmx-10.1.2.tar.gz
rpm -Uvh cisco_cmx_connect-10.1.2-33.x86_64.rpm
rpm -Uvh cisco_cmx-10.1.2-1.x86_64.rpm
```

nodesetup -U

Note To download the .tar file from Cisco.com to your CMX /tmp location, enter the following command using Secure Copy Protocol (SCP):
scp user@serverip:filename /tmp/filename



Note It will take some time to upgrade the services and databases. Ensure that all preceding commands return success. In case of any failures, contact Cisco Technical Support.

Step 4 Enter the following commands:

cmxctl status

cmxctl start (if all services are not started)

cmxctl status

Licensing Information

- Cisco CMX 10.1.2 continues to use two-tier licensing—Cisco CMX Base and Cisco CMX Advanced. The Cisco CMX Connect service is now included as part of Cisco CMX Base license. The **Cisco CMX Base license** provides the following services:
 - Detect and Locate —The ability to determine the location of Wi-Fi clients, Bluetooth Low Energy (BLE) beacons, devices, and radio frequency identification (RFID) tags
 - Connect—Visitor Wi-Fi onboarding platform
 - APIs—Third-party integration using standard REST APIs
- The **Cisco CMX Advanced license** provides the following services:
 - Includes all the CMX Base services—Detect and Locate, APIs, Connect
 - Analytics
- Starting with Cisco CMX 10.1, Cisco CleanAir is natively built-in with MSE appliance (physical and virtual) and does not require a license.
- The Evaluation License of Cisco CMX 10.1.2 provides full functionality for an evaluation period of 120 days. Evaluation of Cisco CMX Base and Cisco CMX Advanced licenses are built in with every Cisco CMX 10.1 instance. There are no limitations with regard to the functionalities when you use the Evaluation License in the current release.
- Every Cisco CMX 10.1.2 box or image ships with a 120-day evaluation license for all the services. The countdown starts when you start Cisco CMX and enable a service.
- Accounting starts from the day you start using the Cisco CMX 10.1.2 software. Each day, the evaluation license is decremented by one.
- The license page shows a summary of the current licenses and their state. If a service is running and its license has expired, an “Out of Compliance” message is displayed. But the service is still allowed to run. The out-of-compliance licenses running in Cisco CMX 10.1.2 will not receive any support from TAC/Cisco in case of any issues.

- You can add any license file from Cisco MSE 8.0 or earlier to Cisco CMX 10.1.2.
- In Cisco CMX 10.1.2, the licenses are not node-locked to a box.



Note For more information about Cisco CMX ordering and licensing, see the [Cisco Connected Mobile Experiences \(CMX\) Version 10 Ordering and Licensing Guide](#).

Software Release Recommendation

Table 3 lists the recommended Cisco CMX software releases and their benefits.

Table 3 Software Release Recommendation

| Cisco CMX/MSE Release | Benefits |
|---|---|
| Cisco MSE 8.0.110.0 | This release should be used in production environments that require the full suite of Cisco MSE features. |
| Cisco CMX 10.1.0-rc.2 Cisco CMX 10.1.1 Cisco CMX 10.1.2 | <p>This release is suitable for deployments where the following features are a requirement:</p> <ul style="list-style-type: none"> • Detect & Locate • Analytics • Connect <p>This release is <i>not</i> suitable for deployments where the following features are a requirement:</p> <ul style="list-style-type: none"> • aWIPS • Cisco CMX SDK • FIPS deployment • Stanley(AeroScout) Certification • Cisco Prime Infrastructure integration for location services and Cisco CleanAir |

Installing a Cisco MSE Virtual Appliance

For information about installing a Cisco MSE Virtual Appliance, see the *Cisco MSE Virtual Appliance Installation Guide, Cisco CMX Release 10.1* at:

http://www.cisco.com/c/en/us/td/docs/wireless/mse/10-1/installation/guide/installation_guide.html

What's New in This Release

This is a patch release for Cisco CMX 10.1. This release delivers a number of bug fixes. No new features have been added in this release.

Important Notes

- From Cisco CMX, Release 10.1, Cisco CMX, Cisco Wireless LAN Controller (WLC) and Cisco Prime Infrastructure will be independently version numbered. See the “[Solution Compatibility Matrix](#)” section on page 2 to identify release numbers of individual components for your deployment.
- Cisco CMX 10.1 is loosely coupled with Cisco Prime Infrastructure, which is the network management platform. Cisco Prime Infrastructure discovers access points and offers tools to place them on site maps. These populated maps are reused by Cisco CMX using an export and import process supported by Cisco Prime Infrastructure and Cisco CMX respectively. This process is performed during setup, and is repeated when maps are modified or added to the system. After the process of importing maps on Cisco CMX is complete, the Cisco CMX and Cisco Prime Infrastructure do not have run-time dependencies.
- Unlike in releases earlier than Cisco CMX 10.1, zones are created in Cisco CMX 10.1.2 after the maps have been imported from Cisco Prime Infrastructure.

Caveats

- [Cisco Bug Search Tool](#), page 6
- [Open Caveats](#), page 6

Cisco Bug Search Tool

The Bug Search Tool (BST), which is the online successor to the Bug Toolkit, is designed to improve the effectiveness of 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:

1. Access the BST using your Cisco user ID and password at:

<https://tools.cisco.com/bugsearch/>

2. Enter the bug ID in the **Search For:** field.

**Note**

Using the BST, you can also find information about the bugs that are not listed in this document.

Open Caveats

There are no open caveats in this release.

Resolved Caveats

Use the BST to view the details of the caveats listed in this section. For more information about the BST, see the “[Cisco Bug Search Tool](#)” section on page 6.

Table 4 **Resolved Caveats**

| Bug ID | Description |
|----------------------------|---|
| CSCut93144 | There is a mismatch in the number of connected clients shown in Cisco WLC and Cisco CMX. |
| CSCuu76068 | Unable to search for the probing or detected clients in the Detect & Locate tab in Cisco CMX Release 10.1.43. |
| CSCuu84128 | Realtime widgets showing data for All-Day |
| CSCuv00132 | Restore to Cisco CMX 10.1.1-2 node failed. |
| CSCuv22975 | Cisco CMX 10.1.1-2 patch upgrade - The Configuration service does not start after installation. |
| CSCuv23059 | Social Auth on portal page redirects to a blank page on the Apple CNA browser. |

Troubleshooting

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

<http://www.cisco.com/cisco/web/support/index.html>

1. Choose **Product Support > Wireless**.
2. Select your product.
3. Click **Troubleshoot and Alerts** to find information on the problem you are experiencing.

Related Documentation

For additional information on Cisco CMX, see:

- <http://www.cisco.com/c/en/us/solutions/enterprise-networks/connected-mobile-experiences/index.html>
- <http://www.cisco.com/c/en/us/support/wireless/mobility-services-engine/tsd-products-support-series-home.html>

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* at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

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