Cisco Mobility Services Ordering and Licensing Guide

Cisco® Mobility Services is designed to provide a wide variety of location-based services. To deploy these services, you require Mobility Services Engine (MSE) hardware, licenses, and support.

Mobility Services Hardware

- MSE appliance (physical or virtual)

Mobility Services Licenses

- Base Location license
- Connected Mobile Experiences (CMX) license
- Wireless Intrusion Prevention System (wIPS) license

Use this guide to identify the items you need for your deployment. Consult your Cisco representative for additional assistance in ordering the MSE and licenses.

Ordering the Cisco MSE Physical or Virtual Appliance

The Cisco MSE is available in two options: the Cisco 3355 MSE hardware appliance and the Cisco MSE Virtual Appliance (software). Table 1 provides an overview of the MSE hardware and virtual appliance SKUs.

Every instance of virtual MSE requires an activation license. Activation licenses are not required for physical MSE appliances.

Table 1.   Cisco MSE Hardware and Software SKUs

Cisco MSE Model	SKU	Scaling Details
MSE 3355 appliance	AIR-MSE-3355-K9	Supports up to 2500 access points for Base Location and CMX or 5000 access points for wIPS. Supports up to 25,000 tracked devices. For CMX Connect, this platform supports up to 12,500 active guests with 45 logins per second. Please note the limits may differ for earlier release versions.
MSE Virtual Appliance	L-MSE-7.0-K9	**CMX services require the standard or high-end virtual MSE platform.** Supports up to 5000 access points for Base Location and CMX or 10,000 access points for wIPS. High-end virtual MSE supports up to 50,000 tracked devices. Standard virtual MSE supports up to 25,000 tracked devices. For CMX Connect, the high-end virtual MSE supports up to 25,000 active guests; the standard virtual MSE supports up to 12,500 active guests. Both high-end and standard MSE support 45 logins per second.

Ordering the Cisco MSE Licenses

The Cisco MSE requires licenses to enable functionality. Base Location and CMX licenses are purchased on a per-access point basis and are additive.

There are three types of MSE licenses:

- **Base Location license**: Provides advanced spectrum capability, with the ability to detect presence and track and trace rogue devices, interferers, Wi-Fi clients, and RFID tags. The Base Location license also enables customers and partners to use standard MSE APIs. For a list of partners, please see the Cisco Developer Network Mobility Services API page.

- **CMX license**: The CMX License provides Base Location license capabilities with CMX capabilities, including:
  - **CMX Analytics**, a user-friendly location analytics platform to view and analyze how, where, and when visitors move through a venue.
  - **CMX Browser Engage**, which enables location- and context-enabled browser banner notifications, menu items, and search capabilities offered on mobile browsers.
  - **CMX Connect** for a seamless, customizable, and location-aware captive portal to onboard guest users to Wi-Fi.
  - **CMX for Facebook Wi-Fi,** helping guests seamlessly connect to Wi-Fi and use the Internet. Enterprises or merchants gain social demographic data via Facebook Insights.

  Please note that every instance of MSE does not require separate per-access point licensing. If two MSEs are running different CMX services (for example, one MSE with CMX Analytics and another MSE with CMX Browser Engage), only one of the MSEs needs to have CMX licenses hosted on it. The MSE that is actively calculating the location must have per-access point licenses. For license scaling guidelines, see Table 1, which outlines the number of access points supported for each service and platform.

- **wIPS license:** Requires a separate MSE running the wIPS service. There are three deployment options:
  - **Monitor mode:** Number of wIPS licenses required equals the number of access points configured in the full-time monitor mode.
  - **Enhanced Local mode:** Number of wIPS licenses required equals the number of access points in local mode (data serving) deployed in the network.
  - **Monitor module:** Number of wIPS licenses required equals the number of wireless security and spectrum intelligence modules deployed in the network.

MSE licenses are available as options under **L-MSE-PAK** in the Order Tool. Table 2 provides an overview of the MSE license SKUs.

Table 2.   Cisco MSE License SKUs

Base Location License SKU	CMX License SKU	wIPS Monitor Mode/Monitor Module SKUs	wIPS Enhanced Local Mode SKUs	Description
L-LS-1AP	L-AD-LS-1AP	L-WIPS-MM-1AP	L-WIPS-ELM-1AP	Supports 1 access point
L-LS-100AP	L-AD-LS-100AP	L-WIPS-MM-100AP	L-WIPS-ELM-100AP	Supports 100 access points
L-LS-1000AP	L-AD-LS-1000AP	L-WIPS-MM-1000AP	L-WIPS-ELM-1000AP	Supports 1000 access points

Cisco Mobility Services Licenses for High Availability

For high-availability deployments, you need to purchase only two physical or virtual appliances and one set of licenses installed on the primary appliance. For detailed design and scaling information, please see the CMX Design Guide at
http://www.cisco.com/en/US/products/ps9742/products_installation_and_configuration_guides_list.html.

Ordering Support for Physical and Virtual Appliances

Select the appropriate level of support. Table 3 lists the Cisco MSE support SKUs.

Table 3.   Cisco MSE Support SKUs

MSE Model	SKU	Service SKU	Description
MSE 3355 **(physical appliance)**	AIR-MSE-3355-K9	CON-SNT-MSE3355	Hardware and licenses support
MSE Virtual Appliance	L-MSE-7.0-K9	CON-SAU-LMSE7K	Software and licenses support

Cisco MSE Licensing Help

For technical support related to licensing, contact the Cisco Technical Assistance Center (TAC) at 800 553-2447 or tac@cisco.com. For questions related to your licensing order, contact Cisco Customer Service at http://www.cisco.com/go/customerservice.

For More Information

- For more information about Cisco MSE, visit http://www.cisco.com/go/mse or the Cisco MSE Support site at http://www.cisco.com/en/US/products/ps9742/tsd_products_support_series_home.html.

- For additional licensing information, visit the Cisco licensing website at http://www.cisco.com/go/license.

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