

Cisco Mobility Services Engine Ordering and Licensing Guide

This Cisco® 3300 Series Mobility Services Engine licensing and ordering guide presents guidelines and information for ordering the Cisco Mobility Services Engine (MSE), Cisco Context-Aware Mobility software, and Cisco Adaptive Wireless Intrusion Prevention System (wIPS) software licenses.

Overview

The Cisco 3300 Series Mobility Services Engine is an open platform that provides a new approach for the delivery of mobility services to enable mobile business applications. A combination of hardware and software, the Mobility Services Engine is an appliance-based solution that supports a suite of software services to provide centralized and scalable service delivery. Cisco Mobility Services are a set of value-added network services that consolidate intelligence from various points in the network to enable and optimize the delivery of business mobility applications. Service licenses currently available are:

- **Cisco Context-Aware software:** This application tracks in real time location of Wi-Fi devices, interferers, rogues, active Wi-Fi tags, and wired devices. It also provides contextual information like presence, historical visibility, impact of interferers, and telemetry data.

For more information of Cisco Context-Aware Mobility software, visit:

<http://www.cisco.com/go/contextaware>.

- **Cisco Adaptive Wireless Intrusion Prevention System (Adaptive wIPS):** This application provides comprehensive threat detection and mitigation through monitoring, classifying, locating, and alerting on security threats.

For more information on the Cisco Adaptive Wireless Intrusion Prevention System (Adaptive wIPS), visit:

<http://www.cisco.com/go/wips>.

Ordering the Cisco Mobility Services Engine Appliance and Software Licenses

The Cisco 3300 Series Mobility Services Engine hosts the Cisco Context-Aware Mobility software and Cisco Adaptive wIPS software. You can use just one of these applications on the MSE appliance or you can use both: the Cisco MSE supports the coexistence of multiple mobility services on the same appliance. Note, however, that each of these applications requires a separate software license. You can view the MSE licensing calculator for simplified ordering of needed services at:

http://www.cisco.com/en/US/prod/collateral/wireless/ps9733/ps9742/mse_calc_c96-698824.xls.

Here is an overview of hardware and software SKUs associated with the Cisco MSE.

Cisco Mobility Services Engine Appliances	
Physical Appliance SKUs	
AIR-MSE-3355-K9	Cisco 3355 Mobility Services Engine
Supports up to 18,000 endpoints or 3,000 WIPS Monitor or Enhanced Local Mode access points	
AIR-MSE-3310-K9	Cisco 3310 Mobility Services Engine
Supports up to 2,000 endpoints or 2,000 WIPS Monitor or Enhanced Local Mode access points	
Virtual Appliance SKUs	
L-MSE-7.0-K9	Cisco Mobility Services Engine (Virtual Appliance)
Supports up to 50,000 endpoints or 10,000 WIPS Monitor or Enhanced Local Mode access points	
Virtual Appliance Reference Hardware Configurations	
UCS C460 M2 Rack Mount Server (High-End Virtual Appliance)	<ul style="list-style-type: none"> • Two Intel Xeon(R) CPU E7-L8867 @ 2.13GHz • Disk System Throughput: Minimum of 1600 IOPS with a bandwidth of 6,000 Kbytes/sec • Maximum of 50,000 Context-Aware Software Licenses • Maximum of 10,000 aWIPS Licenses
UCS C250 M2 Rack Mount Server (Standard Virtual Appliance)	<ul style="list-style-type: none"> • Two Intel Xeon(R) CPU E5570 @ 2.93GHz • Disk System Throughput: Minimum of 1100 IOPS with a bandwidth of 4,000 Kbytes/sec • Maximum of 18,000 Context-Aware Software Licenses • Maximum of 5,000 aWIPS Licenses
UCS C250 M2 Rack Mount Server (Low-End Virtual Appliance)	<ul style="list-style-type: none"> • Two Intel Xeon(R) CPU E5570 @ 2.93GHz • Disk System Throughput: Minimum of 900 IOPS with a bandwidth of 3,000 Kbytes/sec • Maximum of 2,000 Context-Aware Software Licenses • Maximum of 2,000 aWIPS Licenses
For more information, refer to the MSE Data Sheet .	

Cisco Mobility Services Engine Management Software

The management interface for the Cisco Mobility Services Engine and the services running on the MSE platform is the Cisco Wireless Control System (WCS) software or Cisco Prime™ Network Control System (NCS). Customers need the WCS or NCS interface to manage the MSE. For WCS and NCS ordering information, please refer to the following:

Cisco Wireless Control System (WCS) Licensing and Ordering Guide

http://www.cisco.com/en/US/partner/prod/collateral/wireless/ps5755/ps6301/ps6305/product_data_sheet0900aecd804b4646.html.

Cisco Prime Network Control System Licensing and Ordering Guide

http://www.cisco.com/en/US/partner/prod/collateral/wireless/ps5755/ps11682/ps11686/guide_c07-653879.html.

Cisco Context-Aware Mobility Software

Cisco Context-Aware Mobility application licenses are based on the number of Wi-Fi endpoints tracked (endpoints include Wi-Fi clients, interferers, wired devices, and Wi-Fi tags). The Cisco Mobility Services Engine 3355 allows for the tracking of up to 18,000 endpoints (combined count), and the Mobility Services Engine 3310 allows for the tracking of up to 2,000 endpoints (combined count). The MSE virtual appliance can track up to 50,000 endpoints, depending on server resources. The licenses are additive.

SKUs for Cisco Context-Aware Mobility Software Using RSSI

The following licenses are for tracking Wi-Fi clients, interferers, wired devices and Wi-Fi tags using received signal strength indication (RSSI).

Physical Delivery SKUs

- AIR-CAS-1KC-K9 License for tracking 1,000 endpoints
- AIR-CAS-3KC-K9 License for tracking 3,000 endpoints
- AIR-CAS-6KC-K9 License for tracking 6,000 endpoints
- AIR-CAS-12KC-K9 License for tracking 12,000 endpoints

Electronic Delivery SKUs

- L-CAS-1KC License for tracking 1,000 endpoints
- L-CAS-3KC License for tracking 3,000 endpoints
- L-CAS-6KC License for tracking 6,000 endpoints
- L-CAS-12KC License for tracking 12,000 endpoints

SKUs for Cisco Context-Aware Mobility Software Using RSSI and TDoA

The following licenses are for tracking Wi-Fi tags with chokepoints using both RSSI and time difference of arrival (TDoA) technology. Note that only physical delivery SKUs are available for this type of license. Electronic delivery SKUs are not available.

Physical Delivery SKUs

- AIR-CAS-KT-K9 License for tracking 1,000 Wi-Fi tags
- AIR-CAS-3KT-K9 License for tracking 3,000 Wi-Fi tags
- AIR-CAS-6KT-K9 License for tracking 6,000 Wi-Fi tags
- AIR-CAS-12KT-K9 License for tracking 12,000 Wi-Fi tags

Cisco Adaptive Wireless IPS Software

Licenses are available for Monitor Mode and Enhanced Local Mode Cisco Adaptive Wireless Intrusion Prevention System (Adaptive wIPS) software.

SKUs for Cisco Adaptive wIPS in Monitor Mode

Cisco Adaptive wIPS Monitor Mode software licenses are based on the number of full-time monitoring access points deployed in the network. The Cisco Mobility Services Engine 3355 allows for the tracking of up to 3,000 monitoring access points, and the Mobility Services Engine 3310 allows for the tracking of up to 2,000 monitoring access points. The licenses are additive. The Cisco MSE virtual appliance can support up to 10,000 monitoring access points, depending on server resources.

Physical Delivery SKUs for Cisco Adaptive wIPS Software in Monitor Mode

- AIR-WIPS-AP-5 Supports 5 monitor mode Cisco access points
- AIR-WIPS-AP-25 Supports 25 monitor mode Cisco access points
- AIR-WIPS-AP-100 Supports 100 monitor mode Cisco access points
- AIR-WIPS-AP-500 Supports 500 monitor mode Cisco access points
- AIR-WIPS-AP-2000 Supports 2,000 monitor mode Cisco access points

Electronic Delivery SKUs for Cisco Adaptive wIPS Software in Monitor Mode

- L-MM-WIPS-5 Supports 5 monitor mode Cisco access points
- L-MM-WIPS-25 Supports 25 monitor mode Cisco access points
- L-MM-WIPS-100 Supports 100 monitor mode Cisco access points
- L-MM-WIPS-500 Supports 500 monitor mode Cisco access points
- L-MM-WIPS-2000 Supports 2,000 monitor mode Cisco access points

SKUs for Cisco Adaptive wIPS in Enhanced Local Mode

Cisco Adaptive Wireless IPS Enhanced Local Mode software licenses are based on the number of local mode (data serving) access points that are deployed in the network. The Cisco Mobility Services Engine 3355 allows for the tracking of up to 3,000 local mode access points, and the Mobility Services Engine 3310 allows for the tracking of up to 2,000 local mode access points. MSE virtual appliance can track up to 10,000 local mode access points, depending on the server resources. The licenses are additive.

Physical Delivery SKUs for Cisco Adaptive wIPS Software in Enhanced Local Mode

- AIR-LM-WIPS-5 Supports 5 enhanced local mode access points
- AIR-LM-WIPS-25 Supports 25 enhanced local mode access points
- AIR-LM-WIPS-100 Supports 100 enhanced local mode access points
- AIR-LM-WIPS-500 Supports 500 enhanced local mode access points
- AIR-LM-WIPS-2000 Supports 2,000 enhanced local mode access points

Electronic Delivery SKUs for Cisco Adaptive wIPS Software in Enhanced Local Mode

Please select L-MSE-PAK for ordering the following licenses.

- L-LM-WIPS-5 Supports 5 enhanced local mode access points
- L-LM-WIPS-25 Supports 25 enhanced local mode access points
- L-LM-WIPS-100 Supports 100 enhanced local mode access points
- L-LM-WIPS-500 Supports 500 enhanced local mode access points
- L-LM-WIPS-2000 Supports 2,000 enhanced local mode access points

Cisco MSE Mobility Services Co-existence

The Cisco 3300 Series Mobility Services Engine supports the coexistence of multiple mobility services on the same appliance. MSE 3310, 3355 and MSE Virtual Appliance supports Adaptive Wireless IPS and Context-Aware services on the same appliance. No separate license is required for High-Availability (HA). Simply deploy a primary MSE appliance with CAS/wIPS licenses, and a secondary MSE appliance with no CAS/wIPS license to enable HA.

SKUs for Cisco Mobility Service Engine Bundles

The following Cisco MSE bundles can be ordered as a single SKU.

- **AIR-MSE-B-C1-W5**
Includes MSE 3310 with 1,000 Context-Aware license and 5 Adaptive wIPS licenses
- **AIR-MSE-B4-C3-W25**
Includes MSE 3355 with 3,000 Context-Aware license and 25 Adaptive wIPS licenses

- **AIR-CCA-50**

Includes MSE 3310 with 1,000 Context-Aware license, recommended for deployments of 50 CleanAir access points

- **AIR-CCA-100**

Includes MSE 3310 with 2,000 Context-Aware license, recommended for deployments of 100 CleanAir access points

- **AIR-CCA-500**

Includes MSE 33550 with 6,000 Context-Aware License, recommended for deployments of 500 CleanAir access points

Steps for Ordering Cisco Mobility Services Engine and Associated Software

Follow these general steps to order the Cisco MSE and associated software licenses.

Step 1. Order the physical appliance or virtual appliance.

For physical appliances SKUs, refer to [Physical Appliance SKUs](#) section.

For the virtual appliance SKUs, refer to [Virtual Appliance SKUs](#) section.

Customers can download the OVA image from Cisco software center and use the activation license to enable the Cisco MSE virtual appliance.

Step 2. Order management and mobility software licenses.

You can order physical or electronic delivery licenses. For SKUs, see the sections "[Cisco Mobility Services Engine Management Software](#)" and "[Cisco Context-Aware Mobility Services Software](#)."

Step 3. Order hardware and software support.

Ordering Hardware and Software Support for Physical Appliances

Select the appropriate level of hardware support under the Cisco SMARTnet Software program for the Cisco Mobility Services Engine 3355 or 3310 hardware appliances. Then select the appropriate level of software support under the Cisco Software Application Support plus Upgrades (SAU) program for Cisco Context-Aware Mobility Software licenses ("KC" licenses) and Cisco Adaptive WIPS Software licenses.

Note that support for any "KT" licenses (SKUs for Context-Aware Mobility Software with both RSSI and TDoA tracking) should be purchased directly from AeroScout.

Ordering Software Support for Virtual Appliances

The virtual appliance is available with a special support package that provides cost-effective technical support regardless of the number of MSE-associated software licenses deployed. With a single support contract on the virtual Mobility Services Engine appliance, users can access support for all of their Context-Aware and Adaptive WIPS software licenses. The more licenses, the more savings. Simply order virtual support contract and you're covered.

Table 1. Cisco Software Application Support Plus Upgrades (SASU) Is Required

Physical		Virtual		Bundles	
SKU	Service SKU	SKU	Service SKU	SKU	Service SKU
AIR-MSE-3355-K9	CON-SNT-MSE3355	L-MSE-7.0-K9	CON-SAU-LMSE7K	AIR-MSE-B-C1-W5	CON-SAU-MSEBC1W
AIR-MSE-3310-K9	CON-SNT-A3310K9	L-CAS-1KC	Included	AIR-MSE-B4-C3-W25	CON-SAU-MSEB4C3W
AIR-CAS-1KC-K9	CON-SAU-A1KCK9	L-CAS-3KC	Included	AIR-CCA-50	CON-SAU-ACCA50
AIR-CAS-3KC-K9	CON-SAU-A3KCK9	L-CAS-6KC	Included	AIR-CCA-100	CON-SAU-ACCA100
AIR-CAS-6KC-K9	CON-SAU-A6KCK9	L-CAS-12KC	Included	AIR-CCA-500	CON-SAU-ACCA500
AIR-CAS-12KC-K9	CON-SAU-A12KCK9	L-MM-WIPS-5	Included		
AIR-WIPS-AP-5	CON-SAU-WIPS5	L-MM-WIPS-25	Included		
AIR-WIPS-AP-25	CON-SAU-WIPS25	L-MM-WIPS-100	Included		
AIR-WIPS-AP-100	CON-SAU-WIPS100	L-MM-WIPS-500	Included		
AIR-WIPS-AP-500	CON-SAU-WIPS500	L-MM-WIPS-2000	Included		
AIR-WIPS-AP-2000	CON-SAU-WIPS2000	L-LM-WIPS-5	Included		
AIR-LM-WIPS-5	CON-SAU-LMWIPS5	L-LM-WIPS-25	Included		
AIR-LM-WIPS-25	CON-SAU-LMWIP25	L-LM-WIPS-100	Included		
AIR-LM-WIPS-100	CON-SAU-ALMWP100	L-LM-WIPS-500	Included		
AIR-LM-WIPS-500	CON-SAU-LWIPS500	L-LM-WIPS-2000	Included		
AIR-LM-WIPS-2000	CON-SAU-LMWP2K				

Mapping Status Lookup

All service part numbers and product part numbers can be cross referenced at this internal Cisco URL:

<http://wwwin.cisco.com/cgi-bin/CustAdv/SvMap/dash/cgi-bin/rMappingStatusMenu.pl>.

Cisco Service Contract Center

Cisco Service Contract Center, the next generation of service management, helps you increase profitability and efficiency by simplifying the way you manage and sell your Cisco service contracts.

Now there is one simple and easy-to-use web-based solution for quoting and booking your service orders and managing your service contracts and renewal opportunities. Cisco Service Contract Center helps you accelerate your business by allowing you to focus your attention on selling and on servicing your customers instead of waiting for reports, searching for information, reconciling prices, reentering quotes, solving problems, and cleaning up contracts.

Access the Cisco Service Contract Center at the following location:

<http://apps.cisco.com/CustAdv/ServiceSales/smcam/requestStatusDispatch.do?methodName=onDashboardAction>

Help for Cisco Mobility Services Engine Licensing Issues

For technical support related to licensing, contact Cisco TAC at 800 553-2447 or tac@cisco.com. For issues 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>.

For more information about Cisco context-aware software, visit:

<http://www.cisco.com/en/US/products/ps9806/index.html>.

For more information about Cisco Adaptive Wireless IPS software, visit: <http://www.cisco.com/go/wips>.

To order Cisco MSE and context-aware and Adaptive wIPS software SKUs, visit the Cisco Ordering Tool at:

<http://www.cisco.com/en/US/ordering/index.shtml>.

Cisco ordering tool

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

Cisco Licensing website

<http://www.cisco.com/go/license>.

AeroScout support

<http://support.aeroscout.com>.

Appendix A: Product Authorization Key Information

Product Authorization Key (PAK) Certificate

The PAK certificate allows customers to receive a Context-Aware software license for clients, or Adaptive Wireless IPS software license to run on the Cisco Mobility Services Engine. It is used to register these Cisco Mobility Services software services and generate license files. The PAK certificate is delivered by mail.

Activating Cisco Mobility Services Software Licenses Using the PAK Certificate

After the customer completes the PAK registration, the software license files are emailed to the customer.

Customers will receive an email from licensing@cisco.com within an hour after they have completed their PAK registration. All customers must go to the licensing website listed on their PAK certificate to complete their software registration. The PAK certificate provides clear instructions on how to complete the software licensing process.

Note: If you do not receive an email from licensing@cisco.com within an hour after you have completed your PAK registration, please check your junk email folder. Some email servers may filter this email and place it in your junk email folder. If you cannot find or did not receive your license file, please contact Cisco TAC at 800 553-2447 or tac@cisco.com.

Note: All customers who purchase Mobility Services software from Cisco.com must activate these software services by registering at the licensing website. Figure 10 shows a sample PAK certificate.

Sample PAK Certificate

Product Name: AIR-CAS-12KC-K9

Product Qty: 1

Product Authorization Key: 1277646C65B

Please log into the following Website to complete your registration and receive your license key/file.

<http://www.cisco.com/go/license>

Appendix B: Cisco MSE Compatibility and Service Support

Cisco MSE Software Compatibility and Hardware Requirements

- MSE 3310 support available from version 5.1
- MSE 3355 support available from version 6.0.202.0
- MSE Virtual Appliance support available from version 7.2
- Cisco Context-Aware Mobility Software
 - Available with Cisco MSE Software Release 5.1.xxx or later
 - Requires 5.1.xxx or later on WCS
 - Requires 4.2.xxx (xxx>112) or 5.0.xxx (xxx>148) on WLC
- Cisco Adaptive Wireless IPS Software
 - Available with Cisco MSE Software Release 5.2.xxx or later
 - Requires 5.2.xxx or later on WCS
 - Requires 5.2.xxx or later on WLC
 - Release 5.2 and later wireless IPS functionality requires monitor mode (that is, non-client-serving) access points
 - Release 7.1.xxx and later wireless IPS functionality requires Enhanced Local Mode (that is, client-serving) access points



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