CISCO SYSTEMS

Cisco Catalyst 6500 Series Wireless LAN Services Module Software Release Image Version 2.1.1

This product bulletin describes new features for Cisco® WLSM Software Release Image Version 2.1.1, a deployment release supporting the Cisco Catalyst® 6500 Series Wireless LAN Services Module (WLSM). Note that the Cisco Catalyst 6500 Series WLSM Version 2.1.1 software release requires a corresponding software upgrade on the Supervisor Engine 720 module* and Cisco Aironet® access points** to enable all new features.

PRODUCT OVERVIEW

The Cisco Catalyst 6500 Series Wireless LAN Services Module (WLSM) provides fast secure campuswide wireless Layer 3 roaming and can greatly simplify wireless deployments and ongoing network operations. The Cisco Catalyst 6500 Series WLSM supports Cisco Aironet® autonomous access points and operates as a Wireless Domain Services (WDS) device. Cisco WLSM Software Release Image Version 2.1.1 supports several new features as well as all of the features in Image Version 1.4 and prior releases (Table 1).

Table 1.   Cisco WLSM Software Release Image Version 2.1.1 New Features

Feature	Description
Increased Access Point Scalability	Memory and software improvements increase scalability of Cisco Catalyst 6500 Series WLSM from 300 to 600 access points per WLSM.
Active and Standby WLSMs Per Chassis	Active and standby WLSMs in a common Cisco Catalyst 6500 Series chassis provide the ability for administrators to deploy a second WLSM in a given chassis for failover support. One WSLM serves in an active role, the other WLSM serves in a standby role at any given time.
Resilient Tunnel Recovery for Wireless**	Automatic recovery of mobility tunnels after WLSM failure with zero client interruption.
RADIUS-Based Mobility Group Assignment**	This feature provides the ability to assign wireless users to different mobility groups based on user credentials stored in the RADIUS server.
IGMP Snooping-Based Multicast for Wireless**	This feature provides the ability to deliver multicast traffic to wireless clients across the Native VLAN of an access point without requiring the need for trunking or multiple multicast enabled networks on the first hop layer 3 router. With this feature, the access point is able to deliver multicast to wireless clients with dynamically assigned mobility groups.
Support for 240 Mobility Groups	This feature increases the number of mobility groups that may be assigned per WLSM. Mobility groups may be dynamically assigned based upon user authentication or posture validation. With 240 mobility groups supported per WLSM, each mobility domain may be smaller, thus reducing the subnet size required for each mobility group.
Enhanced Cisco Catalyst WLSM MIB Support	MIB support (CISCO-WDS-INFO-MIB) introduces the capability of querying the Cisco Catalyst 6500 Series WLSM for client, access point, and WLSM configuration and statistics. This information may be used to query the WLSM for client association, roaming, and performance data via the CiscoWorks Wireless LAN Solution Engine (WLSE) or custom Simple Network Management Protocol (SNMP) applications.

*   Supervisor Engine 720 must be running software release 12.2(18)SXF2 or later.

**   Cisco Aironet access points must be running Cisco IOS Software release 12.3(8)JA or later.

UPGRADE PATHS

The Cisco Catalyst 6500 Series WLSM is interoperable with the hardware components listed in Table 2.

Table 2.   Cisco Catalyst 6500 Series WLSM Hardware Component Interoperability

Part Number	Product Description	Minimum Software
AIR-AP1242AG	Cisco Aironet 1240AG Series access points	Cisco IOS® Software Release 12.3.(7)JA or later
AIR-AP1232AG	Cisco Aironet 1230AG Series access points	Cisco IOS Software Release 12.3.(2)JA or later
AIR-AP1210, AIR-AP1230A, AIR-AP1230B, or AIR-AP1231G	Cisco Aironet 1200 Series access points	Cisco IOS Software Release 12.2(15)XR or later
AIR-AP1131AG	Cisco Aironet 1130AG Series access points	Cisco IOS Software Release 12.3.(2)JA or later
AIR-AP1121B or AIR-AP1121G	Cisco Aironet 1100 Series access points	Cisco IOS Software Release 12.2(15)XR or later
BR1310G	Cisco Aironet 1300 Series outdoor access points/bridges	Cisco IOS Software Release 12.3.(2)JA or later
CWWLSE-1130-K9	CiscoWorks Wireless LAN Solution Engine (WLSE)	CiscoWorks WLSE Version 2.7 or later
WS-SUP720	Cisco Catalyst 6500 Series Supervisor Engine 720	Cisco IOS Software Release 12.2(18)SXF

Notes:
1. The Cisco Catalyst 6500 Series Supervisor Engine 720 is required on Cisco Catalyst 6500 Series switches equipped with a WLSM. Two WLSMs are supported per Cisco Catalyst 6500 Series switch in Hot Standby Routing Protocol (HSRP) mode.
2. Cisco Wireless LAN Services Module software version 1.4.3 or greater requires that the Supervisor 720 is running Cisco IOS Software 12.2(18)SXF2.

AVAILABILITY

Customers with an earlier version of Cisco WLSM Software can download a free upgrade of Cisco WLSM Software Release Image Version 2.1.1 through the Product Upgrade Tool at http://www.cisco.com/upgrade. Cisco WLSM contains encryption technologies controlled by the U.S. government; users who want to download software will be prompted to apply for permission to access the encrypted files.

ORDERING INFORMATION

Table 3 lists ordering information for the Cisco Catalyst 6500 Series WLSM.

Table 3.   Ordering Information for the Cisco Catalyst 6500 Series WLSM

Part Number	Product Description	Minimum Software
WS-SVC-WLAN-1-K9	Cisco Catalyst 6500 Series WLSM	Cisco CAT6000-WLSM Software Release 2.1.1 or later

FOR MORE INFORMATION

For more information about the Cisco Catalyst 6500 Series WLSM, contact your local account representative or visit:

http://www.cisco.com/en/US/products/hw/switches/ps708/products_relevant_interfaces_and_modules.html

http://www.cisco.com/en/US/products/ps5865/index.html

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