



Release Notes for Catalyst 6500 Series Switch and Cisco 7600 Series Wireless LAN Services Module Software Release 2.4.1

July 26, 2007

This publication describes the features, modifications, and caveats for the Catalyst 6500 series and Cisco 7600 series Wireless LAN Services Module (WLSM) software release 2.4.1.

This maintenance release does not introduce new features and does not resolve WLSM-related caveats. However, caveats were resolved in WDS, which affects the WLSM. Therefore, the purpose of this release is to maintain compatibility between WLSM software and access point WDS software.



Note

For installation and configuration procedures for the WLSM, refer to the Catalyst 6500 series and Cisco 7600 series Wireless LAN Services Module documentation at this URL:

http://cisco.com/en/US/products/ps5865/tsd_products_support_model_home.html

Contents

This document consists of these sections:

- [System Requirements, page 2](#)
- [WLSM Software Version to Cisco IOS Software Version Mapping, page 3](#)
- [Limitations and Restrictions, page 3](#)
- [Documentation Updates, page 4](#)
- [Open and Resolved Caveats in Software Release 2.4.1, page 4](#)
- [Open and Resolved Caveats in Software Release 2.4.0, page 4](#)
- [Related Documentation, page 5](#)
- [Obtaining Documentation, Obtaining Support, and Security Guidelines, page 6](#)



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

© 2007 Cisco Systems, Inc. All rights reserved.

System Requirements

This section describes the system requirements for the Catalyst 6500 series and Cisco 7600 series WLSM software release 2.4.1:

- [Hardware Requirements, page 2](#)
- [Software Requirements, page 2](#)
- [Solution Requirements, page 2](#)

Hardware Requirements

The wireless LAN software requires the following hardware:

- Catalyst 6500 series switch or Cisco 7600 series router
- Supervisor Engine 720
- Catalyst 6500 series and Cisco 7600 series WLSM

Software Requirements

[Table 1](#) lists the wireless LAN software versions supported by Cisco IOS software.

Table 1 *Wireless LAN Software Compatibility*

| Product Number | Minimum WLAN Software Version | | Recommended WLAN Software Version | | Minimum Cisco IOS Software |
|---|-------------------------------|-------------------|-----------------------------------|-------------------|----------------------------|
| | Application Image | Maintenance Image | Application Image | Maintenance Image | |
| WS-SVC-WLAN-1-K9 with Supervisor Engine 720 | 1.1.1 | 3.1(1) | 2.1.1 | 3.1(1) | 12.2(18)SXF2 |

Solution Requirements

In addition to the hardware and software requirements, the WLSM also requires the following:

- Cisco Aironet 1100, 1130AG, 1200, 1230AG, and 1240AG Series Access Points and Cisco Aironet 1300 Series Outdoor Access Point/Bridge using Cisco IOS Release 12.2(15)XR or Release 12.3(2)JA or later, Cisco Aironet 1130 Series Access Point using Cisco IOS Release 12.3(2)JA or later, or Cisco Aironet 1310 Outdoor Access Point/Bridge (configured in access point mode) using Cisco IOS Release 12.3(2)JA or later
- CiscoWorks Wireless LAN Solution Engine (WLSE) release 2.7(1) or later

WLSM Software Version to Cisco IOS Software Version Mapping

Table 2 shows the mapping between WLSM software versions and Cisco IOS Software versions.

Table 2 WLSM Software Version to Cisco IOS Software Version Mapping

| WLSM Image Version | Cisco IOS Software Version |
|--------------------|----------------------------|
| 2.4.1 | 12.3(8)JEB1 |
| 2.4.0 | 12.3(8)JEB |
| 2.3.1 | 12.3(8)JEA1 |
| 2.2.1 | 12.3(8)JEA |
| 2.1.1 | 12.3(8)JA |
| 1.4.3 (deferred) | 12.3(7)JA2 |
| 1.4.2 (deferred) | 12.3(7)JA1 |
| 1.4.1 (deferred) | 12.3(7)JA |
| 1.3.2 (deferred) | 12.3(4)JA1 |
| 1.3.1 (deferred) | 12.3(4)J |
| 1.2.3 (deferred) | 12.3(2)JA5 |
| 1.2.2 (deferred) | 12.3(2)JA2 |
| 1.2.1 (deferred) | 12.3(2)JA |
| 1.1.2 (deferred) | 12.2(15)XR2 |
| 1.1.1 (deferred) | 12.2(15)XR1 |

Limitations and Restrictions

This section describes general limitations and restrictions:

- In software release 1.1.1 through 1.4.1, you can install one WLSM in a chassis.
- In software release 2.1.1, you can install two WLSMs, which requires Cisco IOS Release 12.2(18)SXF2.
- You cannot configure wireless clients in the same subnet as wired clients.
- You cannot map multiple SSIDs to a single network ID.
- You cannot configure QoS on tunnel interfaces in systems with a PFC3A. There is full QoS support in systems with a PFC3B or PFC3BXL.
- If you upgrade your Supervisor 720 to Cisco IOS Release 12.2(18)SFX2, you must be running Cisco Wireless LAN Services Module software version 1.4.3 or greater on your WLSM.

Documentation Updates

- The *Cisco Catalyst 6500 Series Wireless LAN Services Module: Detailed Design and Implementation Guide* contains an incorrect entry pertaining to default gateway IP addresses
 The WLSM Failover—The “DHCP Configuration” section on page 56 states that the DHCP server must be configured to return both IP address to the client. This is not correct because the specific default gateway that a client uses is ignored by the access point and all traffic is sent to the upstream tunnel address. The tunnel address changes after the access point registers with the backup WDS and new tunnels are created by its corresponding Supervisor 720 module. Only one gateway is needed.
 This discrepancy is documented in open caveat CSCej53619.

Open and Resolved Caveats in Software Release 2.4.1

These sections describe open and resolved caveats in Wireless LAN software release 2.4.1:

- [Open Caveats in Software Release 2.4.1, page 4](#)
- [Resolved Caveats in Software Release 2.4.1, page 4](#)

Open Caveats in Software Release 2.4.1

- CSCsi40733—(WLSM) WLSM: 1242 access points randomly fail a WLCCP CTK refresh
 At 6-hour periods, a WLCCP link CTK refresh occurs, which should be a transparent action. Some times it fails (on the access point site) and the link needs to be re-established with a new WLCCP authentication. The failure occurs on 1242 access points, but does not seem to occur on 1231 access points.
 Workaround: None
- CSCsg69625—(WLSM) Access point does not mark the DSCP on the IP GRE header
 With an access point communicating with the WLSM, the DSCP marking on the IP GRE is not set correctly.
 Workaround: remove the command **dot11 avid priority** from the configuration file.

Resolved Caveats in Software Release 2.4.1

- CSCsh43635—(WDS) Frequent tracebacks no longer occur on WDS Process
- CSCsi68728—(WDS) Traceback no longer occurs while clearing wlccp wds statistics

Open and Resolved Caveats in Software Release 2.4.0

These sections describe open and resolved caveats in wireless LAN software release 2.4.0:

- [Open Caveats in Release 2.4.0, page 5](#)
- [Resolved Caveats in Release 2.4.0, page 5](#)

Open Caveats in Release 2.4.0

- CSCsc05022—High CPU workaround for 240 mobility routing configuration

When a large number of mGRE tunnels are configured on the Supervisor 720 as part of the 240 mobility support feature, a large number of advertisements occur from the routing protocol. The advertisements can cause a high CPU utilization rate, which results in reduced performance.

To help alleviate this problem, first turn off all router protocol advertisements using the router's **passive-interface default** command. Then specify interfaces, VLANs, and networks for which you want advertisements to be broadcast. The following table shows this workaround for EIGRP:

| Command | Remarks |
|--|---|
| router eigrp | Designates router protocol to address. |
| passive-interface default | All interfaces will not send EIGRP advertisements. |
| no passive-interface <i>interface</i> | Enter for all physical interfaces for which you want advertisements sent so that neighbors are formed and routes exchanged. |
| no passive-interface <i>vlan</i> | Enter for all VLANs to which EIGRP advertisements should be sent. |
| network <i>x.x.x.x</i> | Include all tunnel interfaces with a separate network command. Also include other networks that need to be advertised. |

Resolved Caveats in Release 2.4.0

There are no resolved caveats in release 2.4.0.

Related Documentation

For additional information about Catalyst 6500 series switches and command-line interface (CLI) commands, refer to the following:

- *Regulatory Compliance and Safety Information for the Catalyst 6500 Series Switches*
- *Catalyst 6500 Series Switch Installation Guide*
- *Catalyst 6500 Series Switch Module Installation Guide*
- *Catalyst 6500 Series Switch Software Configuration Guide*
- *Catalyst 6500 Series Switch Command Reference*
- *Catalyst 6500 Series System Message Guide*
- *Catalyst 6500 Series Switch Cisco IOS Software Configuration Guide*
- *Catalyst 6500 Series Switch Cisco IOS Command Reference*
- *Release Notes for Cisco IOS Release 12.2SX on the Catalyst 6500 and Cisco 7600 Supervisor Engine 720*
- For information about MIBs, refer to this URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New* in Cisco Product Documentation, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, *Packet*, PIX, ProConnect, ScriptShare, SMARTnet, StackWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0705R)

© 2007 Cisco Systems, Inc. All rights reserved.