New Cisco IOS Software Release 12.1(22)EA9 for Cisco Catalyst 3550, 2950, 2950 LRE, 2940, and 2955 Series Switches and CIGESM Blade Switch

PB380622

Cisco® announces Cisco IOS® Software updates for the Cisco Catalyst® 3550, 2950, 2950 LRE, 2940, and 2955 Series Switches and CIGESM Blade Switch.

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.1(22)EA9.

The following new features are available with Cisco IOS Software Release 12.1(22)EA9 for the Cisco Catalyst 2940 Series:

- **IEEE 802.1x MAC-Authentication-Bypass:** This feature allows clientless end users (with no 802.1x supplicant) to authenticate to the network, utilizing the MAC address of the device. The switch will initiate an Extensible Authentication Protocol (EAP) conversation with an authentication, authorization, and accounting (AAA) server on behalf of a device to authenticate the MAC address itself. This process is transparent to the end user and utilizes a prepopulated database on the AAA server.

Table 1 lists new features of Cisco IOS Software Release 12.1(22)EA9.

Table 1.   Cisco IOS Software Release 12.1(22)EA9 New Features

Feature	Cisco Catalyst 3550 Series Enhanced Multilayer Image	Cisco Catalyst 3550 Series Standard Multilayer Image	Cisco Catalyst 2955 Series Enhanced Image	Cisco Catalyst 2950 Series Enhanced Image	Cisco Catalyst 2950 Series Standard Image	Cisco Catalyst 2950 LRE Series	Cisco Catalyst 2940 Series Standard Image
802.1x MAC Authentication Bypass	N	N	N	N	N	N	X

N   No plans to add platform support for this feature.
X   Feature is new for this platform.

Table 2 lists the Layer 2+ capable fixed-configuration Cisco Catalyst switches supported with this software release.

Table 2.   Layer 2+ Products Supported with This Release

Cisco Catalyst 2955 Part Numbers	Cisco Catalyst 2950 Series Enhanced Image Part Numbers	Cisco Catalyst 2950 Series Standard Image Part Numbers	Cisco Catalyst 2950 LRE Series Part Numbers	Cisco Catalyst 2940 Series Part Numbers
2955C-12	2950T-24	2950-12	2950LRE-24-997	2940-8TF
2955S-12	2950C-24	2950-24	2950ST-24-LRE	2940-8TT
2955T-12	2950G-12-EI	2950SX-24	2950ST-8-LRE	
	2950G-24-EI	2950SX-48		
	2950G-48-EI	2950T-48		
	2950G-24-EI-DC			

The following new feature is available with Cisco IOS Software Release 12.1(22)EA9 only for the CIGESM Blade Switch:

- **Management Module Lockout:** Management Module Lockout on the CIGESM Blade Switch will prevent the IBM Management Module from controlling the CIGESM. This feature is turned off by default. Enabling this feature will allow the normal operation of the switch and management module independently. Without this feature, the management module might interrupt the operation of the CIGESM.

Additional Resources

Software Download

Software is available for download from the following links:

- **Cisco IOS Software Upgrade Planner:**
  http://www.cisco.com/cgi-bin/Software/Iosplanner/Planner-tool/iosplanner.cgi?majorRel=
- **Guest Level Access Planner:** http://www.cisco.com/kobayashi/sw-center/index.shtml

Because of export restrictions on strong cryptography, a separate image is required for cryptographic features (Secure Shell [SSH] Protocol, Simple Network Management Protocol Version 3 [SNMPv3], and Kerberos Protocol). These software images can be downloaded from the corresponding Triple Data Encryption Standard (3DES) area of the links provided in this section.

Product Information
- **Cisco Catalyst 2955 Series Switches:** http://www.cisco.com/go/catalyst2955
- **Cisco Catalyst 2950 Series Switches:** http://www.cisco.com/go/catalyst2950
- **Cisco Catalyst 2950 LRE Series Switches:**
  http://www.cisco.com/en/US/products/hw/switches/ps4916/index.html
- **Cisco Catalyst 2940 Series Switches:** http://www.cisco.com/go/catalyst2940
- **Cisco Catalyst 2950, 2950 LRE, and 2940 Series Switches and Cisco Catalyst 2955 Series Switches release notes:**
    - http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2950/index.htm
    - http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2940/index.htm

Support
Cisco IOS Software Release 12.1(22)EA9 follows the standard Cisco support policy indicated at http://www.cisco.com/en/US/products/products_end-of-life_policy.html.

Software Image Migration Guide

Figure 1 displays Cisco IOS Software Release 12.1(22)EA9 relative to the 12.1 and 12.1E releases and identifies the recommended migration path.

Figure 1.   Cisco IOS Software Release 12.1EA Release Train