



New Cisco IOS Software Release 12.1(22)EA5 for Cisco Catalyst 3550, Catalyst 2950, Catalyst 2950 LRE, and Catalyst 2940 Series and Catalyst 2955 Switches

Cisco Systems® announces Cisco IOS® Software updates for the Cisco® Catalyst® 3550, Catalyst 2950, Catalyst 2950 LRE, and Catalyst 2940 series and Cisco Catalyst 2955 Intelligent Ethernet switches.

OVERVIEW

This new release furthers Cisco leadership in providing secure, reliable, and feature-rich LAN switching solutions. This product bulletin contains content and delivery information for Cisco IOS Software Release 12.1(22)EA5.

The following new features are available with Cisco IOS Software Release 12.1(22):

- **NAC L2 802.1x**—NAC L2 802.1x enables a switch to enforce network access privileges based on information such as the revision of anti-virus software or OS patch level running on the end station. This feature uses the 802.1X port authentication mechanism to allow an agent running on the end station to provide Network Admission Control (NAC) information to the AAA server along with the authentication credentials. The AAA server can direct the end station into an appropriate VLAN based on the NAC information.
- **Standard 802.1x with Wake on LAN Feature**—This feature allows transmission of frames from an unauthenticated port to the connected end station, blocking only inbound traffic until authentication completes. Customers deploying IEEE 802.1x port authentication and also using remote desktop-management systems can use this feature to “wake up” PCs and perform maintenance, even if a user is not currently logged in or the PC is down.
- **Extended VLAN IDs**—This feature extends the existing support for the full range of 4094 VLAN IDs to the Cisco Catalyst 2940 platform, which was restricted to using VLAN IDs in the range 1 to 1005.
- **Cisco Networking Services (CNS) Agent Support**

Table 1. New Features in Cisco IOS Software Release 12.1(22)EA5

Feature	Cisco Catalyst 3550 Series Enhanced Multilayer Image	Cisco Catalyst 3550 Series Standard Multilayer Image	Cisco Catalyst 2955 Switch 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
NAC L2 802.1x	X	X	X	X	X	N	X
Standard 802.1x with Wake on LAN Feature	N	N	X	X	X	X	X
Extended VLAN IDs	E	E	E	E	X	E	E
Cisco Networking Services (CNS) Agent Support	N	N	E	E	N	E	X

X = Feature is new on this platform

N = Feature is not supported on this platform

E = Feature already exists on 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 Enhanced Image EI Part Numbers	Cisco Catalyst 2950 Series Enhanced Image EI Part Numbers	Cisco Catalyst 2950 Series Standard Image SI Part Numbers	Cisco Catalyst 2950 LRE Series Part Numbers	Cisco Catalyst 2940 Series Part Numbers
<ul style="list-style-type: none">• 2955C-12• 2955S-12• 2955T-12	<ul style="list-style-type: none">• 2950T-24• 2950C-24• 2950G-12-EI• 2950G-24-EI• 2950G-48-EI• 2950G-24-EI-DC	<ul style="list-style-type: none">• 2950-12• 2950-24• 2950SX-24• 2950SX-48• 2950T-48	<ul style="list-style-type: none">• 2950LRE-24-997• 2950ST-24-LRE• 2950ST-8-LRE	<ul style="list-style-type: none">• 2940-8TF• 2940-8TT

ADDITIONAL RESOURCES

Software Download

The following software is available for download:

- Cisco Catalyst 2955 switches: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat2955>
- Cisco Catalyst 2950 Series switches: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat2950>
- Cisco Catalyst 2950 LRE Series switches: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat2950LRE>
- Cisco Catalyst 2940 Series switches: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat2940>

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 switches: <http://www.cisco.com/en/US/products/ps6738/index.html>
- 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 and Catalyst 2955 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

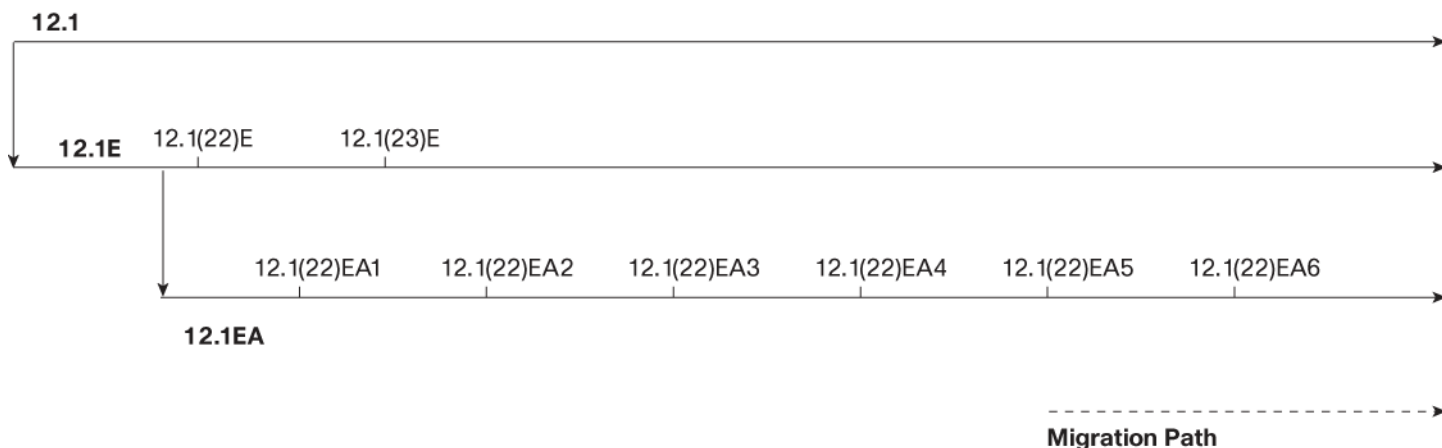
Cisco IOS Software Release 12.1(22)EA5 follows the standard Cisco support policy indicated at:

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)EA5 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



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