



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

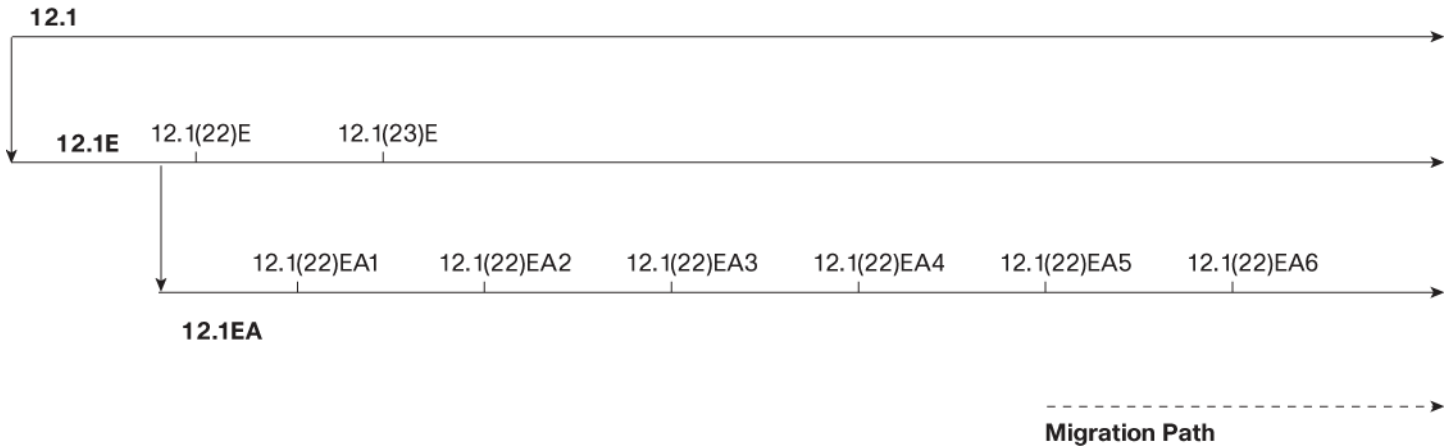
Cisco IOS Software Release 12.1(22)EA5 follows the standard Cisco support policy indicated at:

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



Corporate Headquarters

Cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, CA 95134-1706
 USA
www.cisco.com
 Tel: 408 526-4000
 800 553-NETS (6387)
 Fax: 408 526-4100

European Headquarters

Cisco Systems International BV
 Haarlerbergpark
 Haarlerbergweg 13-19
 1101 CH Amsterdam
 The Netherlands
www-europe.cisco.com
 Tel: 31 0 20 357 1000
 Fax: 31 0 20 357 1100

Americas Headquarters

Cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, CA 95134-1706
 USA
www.cisco.com
 Tel: 408 526-7660
 Fax: 408 527-0883

Asia Pacific Headquarters

Cisco Systems, Inc.
 168 Robinson Road
 #28-01 Capital Tower
 Singapore 068912
www.cisco.com
 Tel: +65 6317 7777
 Fax: +65 6317 7799

Cisco Systems has more than 200 offices in the following countries and regions. Addresses, phone numbers, and fax numbers are listed on **the Cisco Website at www.cisco.com/go/offices.**

Argentina • Australia • Austria • Belgium • Brazil • Bulgaria • Canada • Chile • China PRC • Colombia • Costa Rica • Croatia • Cyprus
 Czech Republic • Denmark • Dubai, UAE • Finland • France • Germany • Greece • Hong Kong SAR • Hungary • India • Indonesia • Ireland • Israel
 Italy • Japan • Korea • Luxembourg • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Peru • Philippines • Poland • Portugal
 Puerto Rico • Romania • Russia • Saudi Arabia • Scotland • Singapore • Slovakia • Slovenia • South Africa • Spain • Sweden • Switzerland • Taiwan
 Thailand • Turkey • Ukraine • United Kingdom • United States • Venezuela • Vietnam • Zimbabwe

Copyright © 2005 Cisco Systems, Inc. All rights reserved. CCSP, CCVP, the Cisco Square Bridge logo, Follow Me Browsing, and StackWise are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, and iQuick Study are service marks of Cisco Systems, Inc.; and Access Registrar, Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Empowering the Internet Generation, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast Step, FormShare, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, LightStream, Linksys, MeetingPlace, MGX, the Networkers logo, Networking Academy, Network Registrar, Packet, PIX, Post-Routing, Pre-Routing, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StrataView Plus, TeleRouter, 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. (0502R) 205482_Y_ETMG_CC_10.05

