



PRODUCT BULLETIN NO. 2797

## NEW CISCO IOS SOFTWARE RELEASE 12.2(25)SEB FOR CISCO CATALYST 3750 METRO, CATALYST 3750, CATALYST 3560, CATALYST 3550, AND CATALYST 2970 SERIES SWITCHES

Cisco Systems® announces Cisco IOS® Software updates for Cisco® Catalyst® Catalyst 3750, Catalyst 3560, Catalyst 3550, and Catalyst 2970 series intelligent Ethernet switches. This new software release furthers Cisco leadership in providing secure, reliable, and feature-rich LAN switching solutions.

### OVERVIEW

This product bulletin contains content and delivery information for Cisco IOS Software Release 12.2(25)SEB. For more information about the Cisco IOS Software release process, refer to Product Bulletin 537.

The following new Cisco IOS Software features are available as a free software upgrade to current users of Cisco Catalyst 3750, Catalyst 3560, Catalyst 3550, and Catalyst 2970 series switches:

- **Dynamic ARP inspection (DAI) and IP Source Guard (IPSG)** support added to the IP Base image for the Cisco Catalyst 3750, Catalyst 3560, and Catalyst 3550 series. DAI and IPSG use a higher level of network security by preventing breaches such as “man-in-the-middle” attacks.
- **Private VLAN** support added to the IP Base image for the Cisco Catalyst 3750 and Catalyst 3560.
- Port security for voice VLANs support facilitates the configuration of voice VLANs for access ports such that an IP phone can not be moved within a switch unless the switch is reconfigured. Only one identified, secure PC is allowed per IP phone, and the PC can bypass the IP phone if desired.
- **Internet Group Management Protocol (IGMP) Leave Timer Change** support.
- **Reformation software packaging** support allows consistent image naming across the Cisco Catalyst switching portfolio. Cisco IOS Software Release 12.2(25)SEB will support IP Advanced Services, IP Services, IP Base, and LAN Base images. Images formally known as AIS, EMI, SMI, and EI will now map to IP Advanced Services, IP Services, IP Base, and LAN Base, respectively.

## NEW FEATURES IN CISCO IOS SOFTWARE RELEASE 12.2(25)SEB

Table 1 lists the features that are delivered in Cisco IOS Software Release 12.2(25)SEB.

**Table 1.** Cisco IOS Software Release 12.2(25)SEB New Features

Feature	Cisco Catalyst 3750 Series-Advanced Services	Cisco Catalyst 3750 Series-IP Services	Cisco Catalyst 3750 Series-IP Base	Cisco Catalyst 3560 Series-Advanced Service	Cisco Catalyst 3560 Series-IP Services	Cisco Catalyst 3560 Series-IP Base	Cisco Catalyst 3550 Series-IP Services	Cisco Catalyst 3550 Series-IP Base	Cisco Catalyst 2970 Series-LAN Base
<b>Multicast EtherChannel® Load Balancing</b>	E	E	E	E	E	E	E	E	E
<b>Dynamic ARP Inspection</b>	E	E	X	E	E	X	E	X	N
<b>IP Source Guard</b>	E	E	X	E	E	X	E	X	N
<b>Private VLANs</b>	E	E	X	E	E	X	E	X	N
<b>Port Security for Voice VLANs</b>	X	X	X	X	X	X	X	X	X
<b>IGMP Leave Timer Change</b>	X	X	X	X	X	X	X	X	X

N No plans to add platform support for this feature

X Feature is new for this platform

E Feature exists for this platform

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

**Table 2.** Cisco Catalyst Switches Supported with Cisco IOS Software Release 12.2(25)SEB

Cisco Catalyst 3750 and Catalyst 3560 Series License CDs	Cisco Catalyst 3750 Series IP Services Models	Cisco Catalyst 3750 Series IP Base Models	Cisco Catalyst 3560 Series IP Services Models	Cisco Catalyst 3560 Series IP Base Models	Cisco Catalyst 2970 Series Models
<ul style="list-style-type: none"> <li>• 3750-AISK9-LIC-B</li> <li>• 3750-AISK9-LIC-S</li> <li>• 3750G-AISK9-LIC-B</li> <li>• 3750G-AISK9-LIC-S</li> <li>• 3750G48-AISK9LIC-B</li> <li>• 3750G48-AISK9LIC-S</li> <li>• 3560-AISK9-LIC-B</li> <li>• 3560-AISK9-LIC-S</li> <li>• 3560G-AISK9-LIC-B</li> <li>• 3560G-AISK9-LIC-S</li> </ul>	<ul style="list-style-type: none"> <li>• 3750-48TS-E</li> <li>• 3750-24TS-E</li> <li>• 3750G-24T-E</li> <li>• 3750G-48TS-E</li> <li>• 3750G-24TS-E</li> <li>• 3750G-12S-E</li> <li>• 3750G-16TD</li> <li>• 3750-48PS-E</li> <li>• 3750-24PS-E</li> <li>• 3750G-24TS-1U-E</li> </ul>	<ul style="list-style-type: none"> <li>• 3750-48TS-S</li> <li>• 3750-24TS-S</li> <li>• 3750G-24T-S</li> <li>• 3750G-48TS-S</li> <li>• 3750G-24TS-S</li> <li>• 3750G-12S-S</li> <li>• 3750G-16TD</li> <li>• 3750-48PS-S</li> <li>• 3750-24PS-S</li> <li>• 3750G-24TS-1U-S</li> </ul>	<ul style="list-style-type: none"> <li>• 3560-24TS-E</li> <li>• 3560-48TS-E</li> <li>• 3560-48PS-E</li> <li>• 3560-24PS-E</li> <li>• 3560G-48PS-E</li> <li>• 3560G-24PS-E</li> <li>• 3560G-48TS-E</li> <li>• 3560G-24TS-E</li> </ul>	<ul style="list-style-type: none"> <li>• 3560-24TS-S</li> <li>• 3560-48TS-S</li> <li>• 3560-48PS-S</li> <li>• 3560-24PS-S</li> <li>• 3560G-48PS-S</li> <li>• 3560G-24PS-S</li> <li>• 3560G-48TS-S</li> <li>• 3560G-24TS-S</li> </ul>	<ul style="list-style-type: none"> <li>• 2970G-24T-E</li> <li>• 2970G-24TS-E</li> </ul>

Cisco Catalyst 3750 and Catalyst 3560 Series License CDs	Cisco Catalyst 3750 Series IP Services Models	Cisco Catalyst 3750 Series IP Base Models	Cisco Catalyst 3560 Series IP Services Models	Cisco Catalyst 3560 Series IP Base Models	Cisco Catalyst 2970 Series Models
<ul style="list-style-type: none"> <li>• ME3750-ADVIP-LIC</li> <li>• ME3750-IP SVC-LIC</li> <li>• ME3750-UPGRD-LIC</li> </ul>	<ul style="list-style-type: none"> <li>• 3750G-24PS-E</li> <li>• 3750G-48PS-E</li> </ul>	<ul style="list-style-type: none"> <li>• 3750G-24PS-S</li> <li>• 3750G-48PS-S</li> </ul>			

Cisco Catalyst 3550 Series EMI Models	Cisco Catalyst 3550 Series SMI Models
<ul style="list-style-type: none"> <li>• 3550-12G Switch</li> <li>• 3550-12T Switch</li> <li>• 3550-24-EMI Switch</li> <li>• 3550-24 PWR Switch EMI</li> <li>• 3550-48-EMI Switch</li> <li>• 3550-24-FX-SMI Switch with EMI upgrade</li> <li>• 3550-24-DC-SMI Switch with EMI upgrade</li> <li>• CD-3550-EMI</li> </ul>	<ul style="list-style-type: none"> <li>• 3550-24-SMI Switch</li> <li>• 3550-24PWR-SMI</li> <li>• 3550-48-SMI Switch</li> <li>• 3550-24-FX-SMI Switch</li> <li>• 3550-24-DC-SMI Switch</li> </ul>

## ADDITIONAL RESOURCES

### Software Download

The following software is available for download.

- Cisco Catalyst 3750 Series software: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat3750>
- Cisco Catalyst 3560 Series software: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat3560>
- Cisco Catalyst 3550 Series software: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat3550>
- Cisco Catalyst 2970 Series software: <http://www.cisco.com/cgi-bin/tablebuild.pl/cat2970>

Because of export restrictions on strong cryptography software, a separate image is required for the 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. Note that the Cisco Advanced IP Services license is available only in cryptographic format.

### Product Information

Additional product information is available at the following URLs.

- Cisco Catalyst 3750 Series switches: <http://www.cisco.com/go/catalyst3750>
- Cisco Catalyst 3560 Series switches: <http://www.cisco.com/go/catalyst3560>
- Cisco Catalyst 3550 Series switches: <http://www.cisco.com/go/catalyst3550>
- Cisco Catalyst 2970 Series switches: <http://www.cisco.com/go/catalyst2970>

- Cisco Catalyst 3750, Catalyst 3560, Catalyst 3550, and Catalyst 2970 series release notes:
  - <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat3750/12225seb/index.htm>
  - <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat3560/12225seb/index.htm>
  - <http://www.cisco.com/univercd/cc/td/doc/product/lan/c3550/index.htm>
  - <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2970/index.htm>

## Support

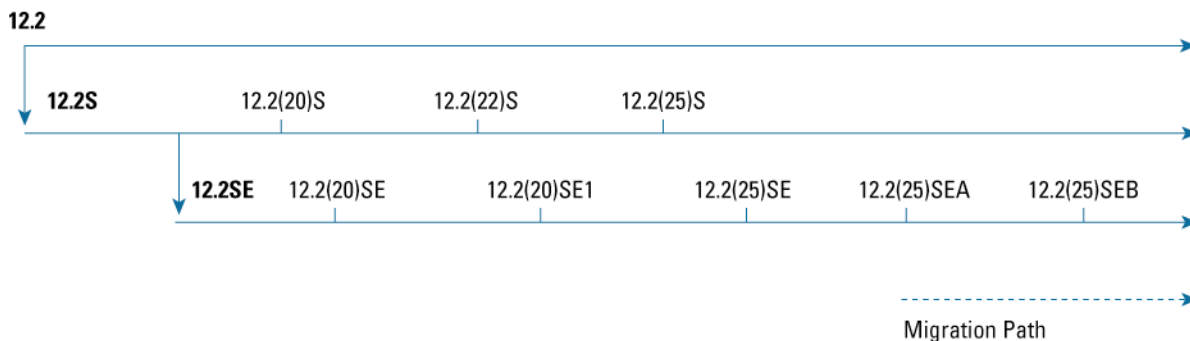
Cisco IOS Software Release 12.2(25)SEB follows the standard Cisco support policy as indicated at:

[http://www.cisco.com/en/US/products/products\\_end-of-life\\_policy.html](http://www.cisco.com/en/US/products/products_end-of-life_policy.html)

## Software Image Migration Guide

Figure 1 displays Cisco IOS Software Release 12.2(25)SEB functions relative to the 12.2S and 12.2SE releases and identifies the recommended migration path.

**Figure 1.** Cisco IOS Software Release 12.2 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](http://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) 204189.by\_ETMG\_JR\_3.05

