



PRODUCT BULLETIN, NO. 2552

# NEW CISCO IOS SOFTWARE RELEASE 12.2(20)SE1 FOR CISCO CATALYST 3750, 3560, AND 2970 SERIES SWITCHES

## OVERVIEW

Cisco Systems® announces Cisco IOS® Software updates for the Cisco® Catalyst® 3750, 3560, and 2970 series Intelligent Ethernet switches. This new release furthers Cisco leadership in providing secure, reliable, and easily managed LAN switching solutions.

This product bulletin describes the content and delivery information concerning Cisco IOS Software Release 12.2(20)SE1. For more information about the Cisco IOS Software release process, see Product Bulletin 537.

The **Speed Autonegotiate** enhancement allows users to enter specific values associated with the ability to autonegotiate speed and duplex settings of switch ports. For example, a network manager can limit 10/100/1000-Mbps capable ports to 10/100-Mbps speeds. This capability can be used when the network core has not yet been scaled to support users at 1000 Mbps. Table 1 shows the speed and duplex settings that the Speed Autonegotiate feature supports.

**Table 1**

Speed, Duplex, and Autonegotiation Settings Supported in Release 12.2(20)SE1

10/100 Ethernet Ports	10/100/100 Ethernet Ports	Fiber SFP, GBIC, and XENPAK Uplink Interfaces	Duplex Settings
speed <10   100   auto [10   100]> Users can configure the following combinations: speed 10 speed 100 speed auto speed auto 10 speed auto 100 speed auto 10 100	speed <10   100   1000   auto [10   100   1000]> Users can configure the following combinations: speed 10 speed 100 speed 1000 speed auto speed auto 10 speed auto 100 speed auto 1000 speed auto 10 100 speed auto 10 1000 speed auto 100 1000 speed auto 10 100 1000	Only one speed is supported on most types of interfaces; refer to the Release Notes for more information.	The duplex command will not change. (Note—half-duplex is not supported on 1000-Mbps or 10000-Mbps interfaces.)

The configured status for these speed and duplex commands is displayed through a new command: `show interface transceiver properties`.

## NEW FEATURES IN CISCO IOS SOFTWARE RELEASE 12.2(20)SE1

The features shown in Table 2 will be delivered in Cisco IOS Software Release 12.2(20)SE1.

**Table 2**

Cisco IOS Software Release 12.2(20)SE1 New Features

Feature	Cisco Catalyst 3750-EMI	Cisco Catalyst 3750-SMI	Cisco Catalyst 3560 EMI	Cisco Catalyst 3560 SMI	Cisco Catalyst 2970
Speed Autonegotiate Enhancement	X	X	X	X	X
Show Interface Transceiver Properties	X	X	X	X	X

SMI—Standard Multilayer Image      EMI—Enhanced Multilayer Image

Table 3 lists the fixed configuration Catalyst switches supported with this software release.

**Table 3**

Catalyst Switches Supported with Release 12.2(20)SE1

Cisco Catalyst 3750 Series Enhanced Multilayer Software Image Models	Cisco Catalyst 3750 Series Standard Multilayer Software Image Models	Cisco Catalyst 3560 Series Enhanced Multilayer Software Image Models	Cisco Catalyst 3560 Series Standard Multilayer Software Image Models	Cisco Catalyst 2970 Series Software Models
3750-48TS-E	3750-48TS-S	3560-48PS	3560-48PS	2970G-24T-E
3750-24TS-E	3750-24TS-S	3560-24PS	3560-24PS	2970G-24TS-E
3750G-24T-E	3750G-24T-S			
3750G-24TS-E	3750G-24TS-S			
3750G-12S-E	3750G-12S-S			
3750G-16TD	3750G-16TD			
3750-48PS	3750-48PS			
3750-24PS	3750-24PS			

## ADDITIONAL RESOURCES

**Software Download—Software available now.**

Cisco Catalyst 3750 Series software download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat3750>

Cisco Catalyst 3560 Series software download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat3560>

Cisco Catalyst 2970 Series software download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat2970>

Due to export restrictions on strong cryptography software, a separate image is required for the cryptographic features (Secure Shell Protocol, Simple Network Management Protocol Version 3, and Kerberos Protocol). These software images can be downloaded from the corresponding 3DES area of the links provided above.

Additional product information is available at the following Websites:

**Catalyst 3750 Series product information:**

<http://www.cisco.com/go/catalyst3750>

**Catalyst 3560 Series product information:**

<http://www.cisco.com/go/catalyst3560>

**Catalyst 2970 Series product information:**

<http://www.cisco.com/go/catalyst2970>

Catalyst 3750, 3560, and 2970 release notes:

[http://www.cisco.com/en/US/products/hw/switches/ps5023/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps5023/prod_release_notes_list.html)

[http://www.cisco.com/en/US/products/hw/switches/ps5528/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps5528/prod_release_notes_list.html)

[http://www.cisco.com/en/US/products/hw/switches/ps5206/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/switches/ps5206/prod_release_notes_list.html)

**Support**

Cisco IOS Software Release 12.2(20)SE1 follows the standard Cisco support policy as indicated at

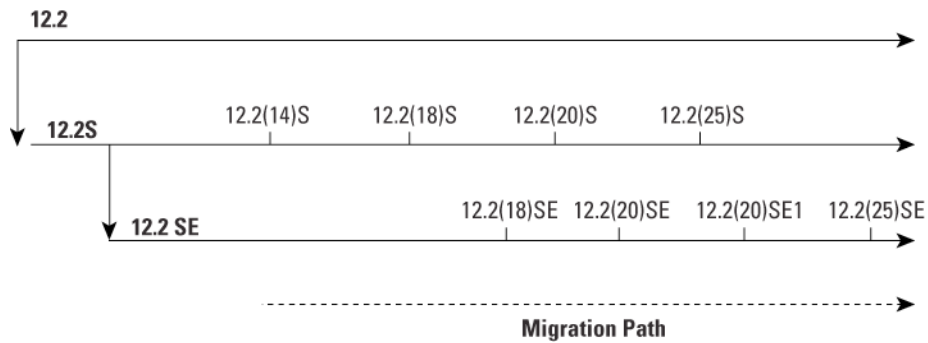
[http://www.cisco.com/en/US/products/products\\_end-of-life\\_policy.html](http://www.cisco.com/en/US/products/products_end-of-life_policy.html).

**Software Image Migration Guide**

Table 4 displays Cisco IOS Software Release 12.2(20)SE1 functions relative to the 12.2S and 12.2SE releases. This diagram identifies the recommended migration path. For more information about the Cisco IOS Software release process, please see Product Bulletin 537.

**Table 4**

Cisco IOS Software Release 12.2 Release Train



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