



New Cisco IOS Software Release 12.1(14)EA1 for Catalyst 3750, 3550, 2970, 2955, 2950, and 2950-LRE Series Switches

Overview

Cisco® is pleased to announce Cisco IOS® Software updates for the Catalyst® 3750, 3550, 2955, 2950, and 2950-LRE Series Intelligent Ethernet switches. This new release furthers Cisco's 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 12.1(14)EA1. For more information about the Cisco IOS Software release process, please see Product Bulletin #537.

With Cisco IOS release 12.1(14)EA1, the Catalyst 3750 and Catalyst 2970 now support Several New Features previously available on the Catalyst 3550.

Table 1

Feature Name	Catalyst 3750-EMI	Catalyst 3750-SMI	Catalyst 2970-E
SNMPv3	Yes	Yes	Yes
Kerberos v5	Yes	Yes	Yes
802.1w/s	Yes	Yes	Yes
Rapid-PVST+	Yes	Yes	Yes
PACL	Yes	Yes	Yes
802.1x with VVID	Yes	Yes	Yes
802.1x with User Based VLAN Assignment	Yes	Yes	Yes
802.1x with Port Security	Yes	Yes	Yes
QoS Trusted Boundary	Yes	Yes	Yes
802.3ad	Yes	Yes	Yes
L2 Traceroute	Yes	Yes	Yes
Show Interface Capability	Yes	Yes	Yes
Auto QoS VoIP	Yes	Yes	Yes
SSH v1.5	Yes	Yes	Yes
SPAN for IDS	Yes	Yes	Yes
Policy Based Routing	Yes	No	No
BGP-4	Yes	No	No



Cisco continues its commitment to ease of use with Express Setup, a Web-based setup tool that frees users from using console cables and the command-line Interface. Cisco switches can now be initially configured by simply connecting a PC to a switch and using a standard Internet browser. Auto-MDIX simplifies cable connectivity for the Catalyst 3750 and Catalyst 2970 by allowing either straight or crossover cables to be used interchangeably.

The Catalyst 3750, 3550, 2970, 2955, 2950-EI, and 2950-LRE receive support for the 802.1x Guest VLAN. This feature enables organizations with 802.1x deployments to allow guests and visitors limited network access without requiring them to have 802.1x client software.

All platforms now support the complete Cisco Port Security MIB which provides complete SNMP management of port security. This MIB includes additional functionality over the 12.1(13)EA1 release with support for configuring secure MAC addresses and receiving SNMP trap notifications when security violations occur.

The Catalyst 3750, 3550, and 2970 have two additional Port Security Enhancements. The first enhancement removes the limitation on the maximum number of secure MAC addresses allowed. There can now be as many secure MAC addresses as there are unicast MAC addresses. Secondly, port security can now be applied on trunk ports in addition to the already supported access ports.

For Metro Ethernet customers, VLAN 1 Minimization increases the robustness of the Cisco VLAN architecture by allowing larger and more scalable Layer 2 topologies.

For users with multiple multicast sources such as video cameras, the IGMP Snooping Timer can now be adjusted to optimize the performance of multicast data flows. This feature does not apply to the 3750, 3550, and 2970 as those platforms' hardware automatically optimize for this situation.

The embedded, Web-based, network management software in the Catalyst 3750, 3550, 2970, 2955, 2950, and 2950-LRE Series, Cisco's Cluster Management Suite (CMS), has enhancements including support for PACL and Layer 2 Traceroute.

These Cisco IOS Software features are available as a FREE software upgrade to current Catalyst 3750, 3550, 2970, 2955, 2950, and 2950-LRE series switch users.



New Features in Cisco IOS Release 12.1(14)EA1

The following features will be delivered in the initial release of Cisco IOS Software Release 12.1(14)EA1.

Table 2 Cisco IOS Software Release 12.1(14)EA1 New Features

Cisco IOS 12.1(14)EA1 Feature	Catalyst 3750-EMI	Catalyst 3750-SMI	Catalyst 2970-E	Catalyst 3550-EMI	Catalyst 3550-SMI	Catalyst 2950-EI, 2950-LRE, & 2955	Catalyst 2950-SI
Express Setup	Yes	Yes	Yes	Yes	Yes	Yes ¹	Yes
802.1x Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	No
CISCO-PORT-SECURITY-MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Port Security Enhancements	Yes	Yes	Yes	Yes	Yes	No	No
VLAN 1 Minimization	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP Snooping Timer	NA	NA	NA	NA	NA	Yes	Yes
Auto-MDIX	Yes	Yes	Yes	No	No	No	No

1. Express Setup is not supported on the Catalyst 2955

Table 3 New Features in Cisco CMS Software

Feature	Description
PACL	Provides quick and easy configuration of port based access control lists (ACLs).
Layer 2 Traceroute	Used to troubleshoot Layer 2 connectivity between and through switches.

Table 4 Products Supported with This Release

Catalyst 3750 Enhanced Multilayer Image Models	Catalyst 3750 Standard Multilayer Image Models	Catalyst 3550 Enhanced Multilayer Image Models	Catalyst 3550 Standard Multilayer Image Models
3750-48TS-E	3750-48TS-S	3550-12G	3550-24-SMI
3750-24TS-E	3750-24TS-S	3550-12T	3550-24PWR-SMI
3750G-24TE	3750G-24TS-S	3550-24-EMI	3550-48-SMI
3750G-24TS-E	3750G-24TS-S	3550-24PWR-EMI	3550-24-FX-SMI
3750G-12S-E	3750G-12S-S	3550-48-EMI	3550-24-DC-SMI
		3550-24-FX-SMI w/EMI upgrade	
		3550-24-DC-SMI w/EMI upgrade	



Table 5 Products Supported with This Release

Catalyst 2970 Models	Catalyst 2955 Enhanced Image Models	Catalyst 2950 Enhanced Image Models	Catalyst 2950 Standard Image Models	Catalyst 2950-LRE Models
2970G-24TE	2955C-12	2950T-24	2950-12	2950LRE-24-997
2970G-24TS-E	2955S-12	2950C-24	2950-24	2950ST-24-LRE
	2955T-12	2950G-12-EI	2950SX-24	2950ST-8-LRE
		2950G-24-EI		
		2950G-48-EI		
		2950G-24-EI-DC		

Additional Resources

Software Download—Software available July, 2003

Catalyst 3750 Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat3750>

Catalyst 3550 Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat3550>

Catalyst 2970 Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat2970>

Catalyst 2955 Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat2955>

Catalyst 2950 Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat2950>

Catalyst 2950-LRE Series Software Download—<http://www.cisco.com/cgi-bin/tablebuild.pl/cat2950LRE>

All software updates are FREE, EXCEPT customers must purchase the EMI software upgrade kit when upgrading a switch from the SMI software to the EMI software. Downloads of the SMI and EMI files will be monitored for adherence to this authorization.

Due to export restrictions on strong cryptography software, a separate image is required for the cryptographic features (SSH, SNMPv3, and Kerberos). These software images can be downloaded from the same location as above.

Catalyst 3750 Series Product Information:

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

Catalyst 3550 Series Product Information:

<http://www.cisco.com/go/catalyst3550>

Catalyst 2970 Series Product Information:

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

Catalyst 2955 Series Product Information:

<http://www.cisco.com/go/catalyst2955>



Catalyst 2950 Series Product Information:

<http://j.cisco.com/go/catalyst2950>

Catalyst 2950-LRE Series Product Information:

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

Catalyst 3750, 3550, 2970, and 2955/2950/2950-LRE Release Notes:

<http://www.cisco.com/univercd/cc/td/doc/product/lan/c3750/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>

<http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2950/index.htm>

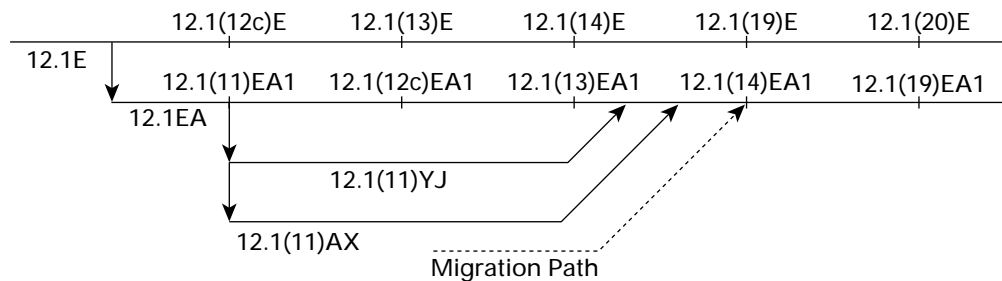
Support

Cisco IOS software release 12.1(14)EA1 follows the standard Cisco support policy as indicated in the following link, http://www.cisco.com/en/US/products/products_end-of-life_policy.html

Software Image Migration Guide

The figure below displays Cisco IOS 12.1(14)EA1 release functionality relative to the 12.1 and 12.1E releases. This diagram identifies the recommended migration path. For more information about the Cisco IOS Software release process, please see Product Bulletin #537.

Figure 1
Cisco IOS Release 12.1EA Release Train





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