Release Notes for the Catalyst 3750, 3550, 2970, 2955, 2950, and 2950 LRE Switches, Cisco IOS Release 12.1(14)EA1a

September 8, 2002

Cisco IOS Release 12.1(14)EA1a runs on these switches:

- Catalyst 3750
- Catalyst 3550
- Catalyst 2970
- Catalyst 2955
- Catalyst 2950
- Catalyst 2950 LRE

Note Use these release notes with the information in the Cisco IOS Release 12.1(14)EA1 release notes for these specific switch platforms.

Note Cisco IOS Release 12.1(14)EA1a is compatible with Catalyst 3750 switch stacks containing stack members running Cisco IOS Release 12.1(14)EA1. We recommend upgrading the entire switch stack to Cisco IOS Release 12.1(14)EA1a if at least one stack member is running this release.

These release notes include important information about this release and any caveats that apply to it. See the "Related Documentation" section on page 4 for links to the switch documentation on Cisco.com.

CISCO SYSTEMS

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Contents

This document has the following sections:

Resolved Caveat Common to All Switches Supporting this Release

- CSCeb81446

  The switches can now authenticate 802.1X clients running the Open 1x supplicant on Linux or the Meetinghouse supplicant on the MacOS.

Resolved Caveats Specific to the Catalyst 3750 and 2970 Switches for this Release

- CSCeb73685

  Jumbo frames, when enabled by using the **system mtu jumbo** *size* global configuration command, no longer halt the switch CPU.

- CSCeb77723

  The switch no longer drops small IP packets (less than 46 bytes in size, including the IP header and payload) that are routed through Cisco Express Forwarding (CEF).

Resolved Caveats Specific to the Catalyst 3750 Switches for this Release

- CSCeb77693

  Virtual Terminal Protocol (VTP) pruning works properly even when the switch stack is the Spanning Tree Protocol (STP) root.

- CSCec06476

  After the switch stack reloads, VLAN access control list (ACL) configurations are retained on the correct VLANs.

Which Software Files to Download from Cisco.com

New software releases are posted on Cisco.com and are also available through authorized resellers. These tables list the software filenames for this software release:

- Table 1 (Catalyst 3750)
- Table 2 (Catalyst 3550)
- Table 3 (Catalyst 2970)
- Table 4 (Catalyst 2955)
- Table 5 (Catalyst 2950)
- Table 6 (Catalyst 2950 LRE)

Note We recommend that you download the combined .tar file that contains the image file and the HTML files. For instructions on how to upgrade your switch, refer to the Cisco IOS Release 12.1(14)EA1 release notes for your switch platform.

Caution The Catalyst 3550, 2955, 2950, and 2950LRE crypto images include a bootloader upgrade. The bootloader can take up to 30 seconds to upgrade. Do not power cycle the switch while you are copying this image to the switch. If a power failure occurs when you are copying this image to the switch, call Cisco Systems immediately.

Table 1   Cisco IOS Software Image Files for Catalyst 3750 Switches

Filename	Description
c3750-i9-mz.121-14.EA1a.bin	Catalyst 3750 SMI image file
c3750-i9-tar.121-14.EA1a.tar	Catalyst 3750 SMI image file and CMS files
c3750-i5-mz.121-14.EA1a.bin	Catalyst 3750 EMI image file
c3750-i5-tar.121-14.EA1a.tar	Catalyst 3750 EMI image file and CMS files
c3750-i9k2-mz.121-14.EA1a.bin	Catalyst 3750 SMI crypto image file
c3750-i9k2-tar.121-14.EA1a.tar	Catalyst 3750 SMI crypto image file and CMS files
c3750-i5k2-mz.121-14.EA1a.bin	Catalyst 3750 EMI crypto image file
c3750-i5k2-tar.121-14.EA1a.tar	Catalyst 3750 EMI crypto image file and CMS files

Table 2   Cisco IOS Software Image Files for Catalyst 3550 Switches

Filename	Description
c3550-i9q3l2-mz.121-14.EA1a.bin	Catalyst 3550 SMI image file
c3550-i9q3l2-tar.121-14.EA1a.tar	Catalyst 3550 SMI image file and CMS files
c3550-i5q3l2-mz.121-14.EA1a.bin	Catalyst 3550 EMI image file
c3550-i5q3l2-tar.121-14.EA1a.tar	Catalyst 3550 EMI image file and CMS files
c3550-i9k2l2q3-mz.121-14.EA1a.bin	Catalyst 3550 SMI crypto image file
c3550-i9k2l2q3-tar.121-14.EA1a.tar	Catalyst 3550 SMI crypto image file and CMS files
c3550-i5k2l2q3-mz.121-14.EA1a.bin	Catalyst 3550 EMI crypto image file
c3550-i5k2l2q3-tar.121-14.EA1a.tar	Catalyst 3550 EMI crypto image file and CMS files

Table 3 Cisco IOS Software Image Files for Catalyst 2970 Switches

Filename	Description
c2970-i612-mz.121-14.EA1a.bin	Catalyst 2970 image file
c2970-i612-tar.121-14.EA1a.tar	Catalyst 2970 image file and CMS files
c2970-i6k212-mz.121-14.EA1a.bin	Catalyst 2970 crypto image file
c2970-i6k212-tar.121-14.EA1a.tar	Catalyst 2970 crypto image file and CMS files

Table 4 Cisco IOS Software Image Files for Catalyst 2955 Switches

Filename	Description
c2955-i6q4l2-mz.121-14.EA1a.bin	Catalyst 2955 SI and EI image files
c2955-i6q4l2-tar.121-14.EA1a.tar	Catalyst 2955 SI and EI image files and CMS files
c2955-i6k2l2q4-mz.121-14.EA1a.bin	Catalyst 2955 SI and EI crypto image files
c2955-i6k2l2q4-tar.121-14.EA1a.tar	Catalyst 2955 SI and EI crypto image files and CMS files

Table 5 Cisco IOS Software Image Files for Catalyst 2950 Switches

Filename	Description
c2950-i6q4l2-mz.121-14.EA1a.bin	Catalyst 2950 SI and EI image files
c2950-i6q4l2-tar.121-14.EA1a.tar	Catalyst 2950 SI and EI image files and CMS files
c2950-i6k2l2q4-mz.121-14.EA1a.bin	Catalyst 2950 SI and EI crypto image files
c2950-i6k2l2q4-tar.121-14.EA1a.tar	Catalyst 2950 SI and EI crypto image files and CMS files

Table 6 Cisco IOS Software Image Files for Catalyst 2950 LRE Switches

Filename	Description
c2950lre-i6l2q4-mz.121-14.EA1a.bin	Catalyst 2950 LRE image file
c2950lre-i6l2q4-tar.121-14.EA1a.tar	Catalyst 2950 LRE image file and CMS files
c2950lre-i6k2l2q4-mz.121-14.EA1a.bin	Catalyst 2950 LRE crypto image file
c2950lre-i6k2l2q4-tar.121-14.EA1a.tar	Catalyst 2950 LRE crypto image file and CMS files

Related Documentation

These documents provide complete information about the switches and are available at Cisco.com:

- For Catalyst 3750: http://www.cisco.com/univercd/cc/td/doc/product/lan/cat3750/index.htm
- For Catalyst 3550: http://www.cisco.com/univercd/cc/td/doc/product/lan/c3550/index.htm
- For Catalyst 2970: http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2970/index.htm
- For Catalyst 2955, 2950, and 2950 LRE:
  http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2950/index.htm

Obtaining Documentation

Cisco provides several ways to obtain documentation, technical assistance, and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation on the World Wide Web at this URL:

http://www.cisco.com/univercd/home/home.htm

You can access the Cisco website at this URL:

http://www.cisco.com

International Cisco websites can be accessed from this URL:

http://www.cisco.com/public/countries_languages.shtml

Documentation CD-ROM

Cisco documentation and additional literature are available in a Cisco Documentation CD-ROM package, which may have shipped with your product. The Documentation CD-ROM is updated regularly and may be more current than printed documentation. The CD-ROM package is available as a single unit or through an annual or quarterly subscription.

Registered Cisco.com users can order a single Documentation CD-ROM (product number DOC-CONDOCCD=) through the Cisco Ordering tool:

http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html

All users can order monthly or quarterly subscriptions through the online Subscription Store:

http://www.cisco.com/go/subscription

Ordering Documentation

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpck/pdi.htm

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Networking Products MarketPlace:

    http://www.cisco.com/en/US/partner/ordering/index.shtml

- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, U.S.A.) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

Documentation Feedback

You can submit comments electronically on Cisco.com. On the Cisco Documentation home page, click **Feedback** at the top of the page.

You can e-mail your comments to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

Cisco provides Cisco.com, which includes the Cisco Technical Assistance Center (TAC) website, as a starting point for all technical assistance. Customers and partners can obtain online documentation, troubleshooting tips, and sample configurations from the Cisco TAC website. Cisco.com registered users have complete access to the technical support resources on the Cisco TAC website, including TAC tools and utilities.

Cisco.com

Cisco.com offers a suite of interactive, networked services that let you access Cisco information, networking solutions, services, programs, and resources at any time, from anywhere in the world.

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- Resolve technical issues with online support
- Download and test software packages
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To obtain customized information and service, you can self-register on Cisco.com at this URL:

http://tools.cisco.com/RPF/register/register.do

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Technical Assistance Center

The Cisco TAC is available to all customers who need technical assistance with a Cisco product, technology, or solution. Two types of support are available: the Cisco TAC website and the Cisco TAC Escalation Center. The type of support that you choose depends on the priority of the problem and the conditions stated in service contracts, when applicable.

We categorize Cisco TAC inquiries according to urgency:

- Priority level 4 (P4)—You need information or assistance concerning Cisco product capabilities, product installation, or basic product configuration. There is little or no impact to your business operations.

- Priority level 3 (P3)—Operational performance of the network is impaired, but most business operations remain functional. You and Cisco are willing to commit resources during normal business hours to restore service to satisfactory levels.

- Priority level 2 (P2)—Operation of an existing network is severely degraded, or significant aspects of your business operations are negatively impacted by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

- Priority level 1 (P1)—An existing network is "down," or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Cisco TAC Website

The Cisco TAC website provides online documents and tools to help troubleshoot and resolve technical issues with Cisco products and technologies. To access the Cisco TAC website, go to this URL:

http://www.cisco.com/tac

All customers, partners, and resellers who have a valid Cisco service contract have complete access to the technical support resources on the Cisco TAC website. Some services on the Cisco TAC website require a Cisco.com login ID and password. If you have a valid service contract but do not have a login ID or password, go to this URL to register:

http://tools.cisco.com/RPF/register/register.do

If you are a Cisco.com registered user, and you cannot resolve your technical issues by using the Cisco TAC website, you can open a case online at this URL:

http://www.cisco.com/tac/caseopen

If you have Internet access, we recommend that you open P3 and P4 cases online so that you can fully describe the situation and attach any necessary files.

Cisco TAC Escalation Center

The Cisco TAC Escalation Center addresses priority level 1 or priority level 2 issues. These classifications are assigned when severe network degradation significantly impacts business operations. When you contact the TAC Escalation Center with a P1 or P2 problem, a Cisco TAC engineer automatically opens a case.

To obtain a directory of toll-free Cisco TAC telephone numbers for your country, go to this URL:

http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml

Before calling, please check with your network operations center to determine the Cisco support services to which your company is entitled: for example, SMARTnet, SMARTnet Onsite, or Network Supported Accounts (NSA). When you call the center, please have available your service agreement number and your product serial number.

Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- The *Cisco Product Catalog* describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the *Cisco Product Catalog* at this URL:

    http://www.cisco.com/en/US/products/products_catalog_links_launch.html

- Cisco Press publishes a wide range of networking publications. Cisco suggests these titles for new and experienced users: *Internetworking Terms and Acronyms Dictionary, Internetworking Technology Handbook, Internetworking Troubleshooting Guide,* and the *Internetworking Design Guide.* For current Cisco Press titles and other information, go to Cisco Press online at this URL:

    http://www.ciscopress.com

- *Packet* magazine is the Cisco quarterly publication that provides the latest networking trends, technology breakthroughs, and Cisco products and solutions to help industry professionals get the most from their networking investment. Included are networking deployment and troubleshooting tips, configuration examples, customer case studies, tutorials and training, certification information, and links to numerous in-depth online resources. You can access *Packet* magazine at this URL:

    http://www.cisco.com/go/packet

- iQ Magazine is the Cisco bimonthly publication that delivers the latest information about Internet business strategies for executives. You can access iQ Magazine at this URL:

    http://www.cisco.com/go/iqmagazine

- Internet Protocol Journal is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:

    http://www.cisco.com/en/US/about/ac123/ac147/about_cisco_the_internet_protocol_journal.html

- Training—Cisco offers world-class networking training. Current offerings in network training are listed at this URL:

    http://www.cisco.com/en/US/learning/le31/learning_recommended_training_list.html

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This document is to be used in conjunction with the documents listed in the "Related Documentation" section on page 4.

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