



# Release Notes for the Catalyst 3750, 3550, 2970, 2955, 2950, 2950 LRE, and 2940 Switches, Cisco IOS Release 12.1(19)EA1a

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Revised November 15, 2004

Cisco IOS Release 12.1(19)EA1a runs on these switches:

- Catalyst 3750
- Catalyst 3550
- Catalyst 2970
- Catalyst 2955
- Catalyst 2950
- Catalyst 2950 LRE
- Catalyst 2940



**Note**

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Use these release notes with the information in the Cisco IOS Release 12.1(19)EA1 release notes for these specific switch platforms.

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**Note**

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Running Cisco IOS Release 12.1(19)EA1a in a switch stack that has other stack members running Cisco IOS Release 12.1(19)EA1 is not a supported configuration. We strongly recommend upgrading the entire switch stack to Cisco IOS Release 12.1(19)EA1a if at least one stack member is running this release.

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These release notes include important information about this release and any caveats that apply to it. See the [“Related Documentation” section on page 6](#) for links to the switch documentation on Cisco.com.



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## Resolved Caveats

These sections describe the resolved caveats in this release:

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### Resolved Caveats for All Switches

- CSCec89172  
Catalyst switches running Cisco IOS Release 12.1(19)EA1a no longer experience a memory leak in the Cisco Discovery Protocol (CDP) process.
- CSCed00222  
Service Assurance Agent (SAA) probes no longer report incorrect jitter information.

### Resolved Caveats for Catalyst 3750 Switches Only

- CSCec64753  
The switch now receives Route Processor (RP) discovery messages on routed ports.
- CSCec76670  
Catalyst 3750 switches no longer reset the outgoing interface (OIF) uptime every minute.
- CSCec76671  
A Catalyst 3750 switch no longer times out the source and multicast group address (S, G) entries when passing low traffic (such as 3 packets per minute) from the source.

- CSCec86621  
When you enter the **ip default-network** global configuration command, all packets that match the default route are no longer sent to the CPU.
- CSCed06621  
The dynamic MAC address of the Hot Standby Router Protocol (HSRP) group is now relearned on the standby switch even if several interfaces have the same HSRP standby group.

## Resolved Caveats for Catalyst 3750 and 2970 Switches Only

- CSCec69183  
The switch no longer reloads when you add an aggregate policer to a new policy map. In previous releases, this happened if the aggregate policer had previously been used in a policy map that was attached to an interface, even if that policy map had been detached and removed from the interface.
- CSCec86127  
The spanning-tree algorithm now blocks a Layer 2 loop if you change the native VLAN or a trunk port to a VLAN that you have not yet created.
- CSCec87974  
When using SNMP to poll a switch, the ifHCInOctets and ifHCOutOctets are no longer 0 for Gigabit EtherChannel interfaces.
- CSCed10210  
A Catalyst 2970 or Catalyst 3750 switch no longer allows Telnet sessions to the device from unauthorized hosts when you apply an access-class to inbound vty lines.

## Resolved Caveats for Catalyst 3750, 3550, and 2950 Switches Only

- CSCec17826  
The 10/100BASE-T interfaces on these switches now link correctly with media converters that are running at 10Bbs:
  - Catalyst 3750s: WS-C3750-24TS-S/E, WS-C3750-48TS-S/E
  - Catalyst 3550s: WS-C3550-24-DC-SMI, WS-C3550-24-SMI/EMI, WS-C3550-48-SMI/EMI
  - Catalyst 2950: WS-C2950-12, WS-C2950-24, WS-C2950C-24, WS-C2950SX-24, WS-C2950SX-48-SI, WS-C2950T-24, WS-C2950T-48-SI

## Resolved Caveats for Catalyst 3550 Switches Only

- CSCec63661  
A Cisco IP phone no longer resets when connected to an interface that you have configured with a dynamic user VLAN.
- CSCec86601  
When you enter the **ip default-network** global configuration command, all packets that match the default route are no longer sent to the CPU.

- CSCed13138

When a switch configured for Policy Based Routing (PBR) is notified that the interface to the primary next-hop device is down, CPU utilization no longer reaches 99 percent.

## Resolved Caveats for Catalyst 2950 LRE Switches Only

- CSCec67240

Catalyst 2950 Long-Reach Ethernet (LRE) switches now support 802.3x flow-control packets on the Cisco 575 LRE and Cisco 576 LRE customer premises equipment (CPE) devices.

- CSCec72237

An LRE port no longer randomly stops forwarding traffic.

## 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)
- [Table 7](#) (Catalyst 2940)



### 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(19)EA1 release notes for your switch platform.



### Caution

A bootloader upgrade occurs if you are upgrading Catalyst 2950 switches running Cisco IOS Release 12.1(9)EA1d or earlier to Cisco IOS Release 12.1(11)EA1 or later for both cryptographic and noncryptographic images. A bootloader upgrade occurs if you are upgrading Catalyst 3550 switches from a noncryptographic image to cryptographic image, regardless of the current noncryptographic Cisco IOS Release that is running on the switch. 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-tar.121-19.EA1a.tar	Catalyst 3750 SMI files. This includes the Cisco IOS image and CMS files.
c3750-i5-tar.121-19.EA1a.tar	Catalyst 3750 EMI files. This includes the Cisco IOS image and CMS files.

**Table 1 Cisco IOS Software Image Files for Catalyst 3750 Switches (Continued)**

Filename	Description
c3750-i9k2-tar.121-19.EA1a.tar	Catalyst 3750 SMI files. This includes the cryptographic Cisco IOS image and the CMS files.
c3750-i5k2-tar.121-19.EA1a.tar	Catalyst 3750 EMI files. This includes the cryptographic Cisco IOS image and the CMS files.

**Table 2 Cisco IOS Software Image Files for Catalyst 3550 Switches**

Filename	Description
c3550-i9q3l2-tar.121-19.EA1a.tar	Catalyst 3550 SMI files. This includes the Cisco IOS image and CMS files.
c3550-i5q3l2-tar.121-19.EA1a.tar	Catalyst 3550 EMI files. This includes the Cisco IOS image and the CMS files.
c3550-i9k2l2q3-tar.121-19.EA1a.tar	Catalyst 3550 SMI files. This includes the cryptographic Cisco IOS image and the CMS files.
c3550-i5k2l2q3-tar.121-19.EA1a.tar	Catalyst 3550 EMI files. This includes the cryptographic Cisco IOS image and the CMS files.

**Table 3 Cisco IOS Software Image Files for Catalyst 2970 Switches**

Filename	Description
c2970-i6l2-tar.121-19.EA1a.tar	Catalyst 2970 EI files. This includes the Cisco IOS image and CMS files.
c2970-i6k2l2-tar.121-19.EA1a.tar	Catalyst 2970 EI files. This includes the cryptographic Cisco IOS image and CMS files.

**Table 4 Cisco IOS Software Image Files for Catalyst 2955 Switches**

Filename	Description
c2955-i6q4l2-tar.121-19.EA1a.tar	Catalyst 2955 EI files. This includes the Cisco IOS image and CMS files.
c2955-i6k2l2q4-tar.121-19.EA1a.tar	Catalyst 2955 EI files. This includes the cryptographic Cisco IOS image and CMS files.

**Table 5 Cisco IOS Software Image Files for Catalyst 2950 Switches**

Filename	Description
c2950-i6q4l2-tar.121-19.EA1a.tar	Catalyst 2950 SI <sup>1</sup> and EI files. This includes the Cisco IOS image and CMS files.
c2950-i6k2l2q4-tar.121-19.EA1a.tar	Catalyst 2950 EI files. This includes the cryptographic Cisco IOS image and CMS files.

1. Switches that support only the SI cannot run the cryptographic image.

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

Filename	Description
c2950lre-i6l2q4-tar.121-19.EA1a.tar	Catalyst 2950 LRE files. This includes the Cisco IOS image and CMS files.
c2950lre-i6k2l2q4-tar.121-19.EA1a.tar	Catalyst 2950 LRE files. This includes the cryptographic Cisco IOS image and CMS files.

**Table 7** Cisco IOS Software Image Files for Catalyst 2940 Switches

Filename	Description
c2940-i6q4l2-tar.121-19.EA1a.tar	Catalyst 2940 files. This includes the Cisco IOS image and CMS files.

## Correction to the Software Documentation for All Switches

This is a correction for the “Configuring Protected Ports” section in the software configuration guide and the “Usage Guidelines” section of the **switchport protected** command in the command reference:

A protected port does not forward unicast, multicast, or broadcast traffic to another protected port, except for Protocol Independent Multicast (PIM) packets and any other packets that the CPU must process. The switch does not forward data traffic between protected Layer 2 ports.

## 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>
- For Catalyst 2940: <http://www.cisco.com/univercd/cc/td/doc/product/lan/cat2940/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](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](http://www.cisco.com/en/US/partner/ordering/ordering_place_order_ordering_tool_launch.html)

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

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

Click Subscriptions & Promotional Materials in the left navigation bar.

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You can find instructions for ordering documentation at this URL:

[http://www.cisco.com/univercd/cc/td/doc/es\\_inpk/pdi.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpk/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, USA) at 408 526-7208 or, elsewhere in North America, by calling 800 553-NETS (6387).

## Documentation Feedback

You can submit e-mail comments about technical documentation to [bug-doc@cisco.com](mailto: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

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, the Cisco Technical Assistance Center (TAC) provides 24-hour-a-day, award-winning technical support services, online and over the phone. Cisco.com features the Cisco TAC website as an online starting point for technical assistance. If you do not hold a valid Cisco service contract, please contact your reseller.

## Cisco TAC Website

The Cisco TAC website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The Cisco TAC website is available 24 hours a day, 365 days a year. The Cisco TAC website is located at this URL:

<http://www.cisco.com/tac>

Accessing all the tools on the Cisco TAC website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a login ID or password, register at this URL:

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

## Opening a TAC Case

Using the online TAC Case Open Tool is the fastest way to open P3 and P4 cases. (P3 and P4 cases are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Case Open Tool automatically recommends resources for an immediate solution. If your issue is not resolved using the recommended resources, your case will be assigned to a Cisco TAC engineer. The online TAC Case Open Tool is located at this URL:

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

For P1 or P2 cases (P1 and P2 cases are those in which your production network is down or severely degraded) or if you do not have Internet access, contact Cisco TAC by telephone. Cisco TAC engineers are assigned immediately to P1 and P2 cases to help keep your business operations running smoothly.

To open a case by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete listing of Cisco TAC contacts, go to this URL:

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

## TAC Case Priority Definitions

To ensure that all cases are reported in a standard format, Cisco has established case priority definitions.

Priority 1 (P1)—Your 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.

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

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

Priority 4 (P4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

# 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](http://www.cisco.com/en/US/products/products_catalog_links_launch.html)

- Cisco Press publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. 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/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](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/index.html>

This document is to be used in conjunction with the documents listed in the “[Related Documentation](#)” section on page 6.

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