



Release Notes for Cisco Cache Software, Release 2.5.1

June 11, 2001



Note

The most current Cisco documentation for released products is available on Cisco.com at <http://www.cisco.com>. The online documents may contain updates and modifications made after the hardcopy documents were printed.

Contents

These release notes contain the following topics:

- [Introduction, page 1](#)
- [System Requirements, page 2](#)
- [New and Changed Information, page 3](#)
- [Installation Notes, page 3](#)
- [Important Notes, page 4](#)
- [Caveats, page 4](#)
- [Documentation Updates, page 5](#)
- [Related Documentation, page 6](#)
- [Obtaining Documentation, page 6](#)
- [Obtaining Technical Assistance, page 7](#)

Introduction

These release notes introduce the Cisco Cache software, Release 2.5.1 for the Cisco Cache Engine and Cisco Content Engine 500 Series. To simplify terminology, Cache Engines and Content Engines are both referred to as “CE.”



Corporate Headquarters: Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

Copyright © 2001. Cisco Systems, Inc. All rights reserved.

78-13433-01

Refer to the *Cisco Cache Software Configuration Guide, Release 2.5*, for the following information:

- Instructions for installing and maintaining this software
- Instructions for configuring the CE as a content routing agent to be used with the Cisco Content Router 4430
- Descriptions of Web Cache Communication Protocol (WCCP) Versions 1 and 2

Refer to the *Cisco Cache Software Command Reference, Release 2.5* for a description of each command included in this release.

Refer to the *Cisco Content Routing Software Configuration Guide and Command Reference, Release 1.1* for a description of the content routing process used by the Content Router 4430 and content routing agents.

System Requirements

Hardware Compatibility

Release 2.5.1 operates on all Cisco Content Engine 500 Series models and Cache Engine 500 Series models.

Software Compatibility

The content routing agent software contained in Release 2.5.1 is compatible with the Content Router 4400 software, Release 1.0 and the Cisco Content Routing software, Release 1.1.

Determining the Software Version

To determine the version of the software currently running on the Cisco CE, log on to the CE and enter the **show version EXEC** command.

Upgrading to a Cache Software 2.x Release

Two types of Cache software files are available on Cisco.com to download: files with the .pax suffix and files with the .bin suffix. The .pax file contains the full-image software with the graphical user interface (GUI) and is the file routinely installed. The .bin file software is for recovery situations that require booting from the network, or restoring Flash memory. Refer to the section “Recovering the System Software” in the *Cisco Cache Software Configuration Guide, Release 2.5* for instructions on loading your system image with the .bin file.

To install the software from the .pax file:

-
- Step 1** Use an FTP client to transfer the .pax file to the */local* directory of your CE.
- Step 2** Log on to the CE, and at the privileged level EXEC command prompt enter:
- ```
install filename.pax
```
- where *filename* is the name of the .pax file.
- Step 3** Follow the command-line interface instructions as prompted. At the following prompt, enter *y*:
- ```
Copy new image to flash memory?[yes]:
```
- Step 4** Reboot the CE with the **reload** command, and then use the **show version** command to display the current software version.
-

New and Changed Information

New Hardware Features in Release 2.5.1

Release 2.5.1 of the Cache software now supports all Cisco Content Engine 500 Series models and all Cache Engine 500 Series models.

New Software Features in Release 2.5.1

Release 2.5.1 adds support that allows you to configure the CE as a content routing agent, which you can use with the Content Router 4430 running the Content Routing software, Release 1.1.

Release 2.5.1 also brings together all of the new software features that were added to the Cache software in Release 2.3.1 and in Release 2.4.0. For a description of the new features in those releases, refer to the *Release Notes for Cisco Cache Software, Release 2.3.1* and the *Release Notes for Cisco Cache Software, Release 2.4.0*.

Installation Notes

If you are upgrading a Content Router 4400 to a Content Router 4430, upgrade your CE software before upgrading the Content Router.

Important Notes

Please see the “[Documentation Updates](#)” section on page 5 for important configuration information.

To compile the Cisco Cache Engine management information base (MIB) with your SNMP network management application, you need the following files, which are located in the /local/lib/gui/snmp directory of the CE:

- CISCO-CACHEENGINE-MIB.my
- CISCO-SMI.my



Note

Because the Counter64 syntax is not supported in SNMPv1, you should use SNMPv2C with the Cisco Cache software MIB (CISCO-CACHEENGINE-MIB.my).

Refer to the *Cisco Cache Software Configuration Guide, Release 2.5* for more information.

Caveats

Caveats describe unexpected behavior of Cisco Cache software, Release 2.5.1. Severity 1 caveats are the most serious caveats, severity 2 caveats are less serious. Severity 3 caveats are moderate caveats, and only select severity 3 caveats are included here. The following caveats are still open (unresolved) at the printing of these release notes.

Open Caveats - Software Release 2.5.1

- CSCdu17136
Symptom: The Content Engine (CE) is unable to correctly authenticate with some RADIUS servers. This happens when the length of the user password sent by the CE is too long because of padding. This problem has specifically been observed with ACE servers.
Workaround: There is no known workaround.
- CSCdu38300
Symptom: With RADIUS authentication enabled on a CE that is configured as an FTP proxy, FTP objects are not cached. The proxy authorization header inhibits the CE from caching the FTP objects.
Workaround: There is no known workaround.
- CSCdt71019
Symptom: The CE generates an “Insufficient system resources, please try later” error, while accessing the console. This problem happens under very rare circumstances. It can occur when there are a large number of open file descriptors and the CE load is extremely heavy.
Workaround: There is no known workaround.
- CSCdu24050
Symptom: During peak usage times, the CE crashes with a page fault error.
Workaround: There is no known workaround.
- CSCdu28644

Symptom: The CE's routing table is filled to a maximum number and the CE crashes upon reload. ICMP routing-redirect messages, which are a sign of a network connectivity problem, are causing the routing table to fill up.

Workaround: There is no known workaround. However, if this problem occurs, it is advisable to resolve any network connectivity problems. Resolving network connectivity problems may prevent this problem.

- CSCdt48774

Symptom: When the bypass feature is disabled, packets continue to bypass the CE.

Possible cause: In some cases it was found that a WCCP router running IOS version 12.1 failed to redirect TCP packets intermittently, even though hash allotment was 100%. When this happens, TCP packets that are redirected to the CE in the middle of a connection are bypassed and the “GRE packets redirected back to the router” count, shown with the **show statistics tcp** command, increments.

Related IOS bug: CSCds86733

Workaround: There is no known workaround.

- CSCdt24360

Symptom: When CE is used in proxy mode, requests to a local web server from Microsoft Windows 95 clients are not cached. Requests time out and do not return a page.

Workaround: There is no known workaround.

Resolved Caveats - Release 2.5.1

- CSCdt53122

Symptom: The authentication bypass feature fails in a CE farm, making authenticated traffic intermittently inaccessible.

Workaround: Use the **clear** command to clear the caches, and then reboot all the CEs in the CE farm.

Documentation Updates

This section contains documentation updates for the *Cisco Cache Software Configuration Guide, Release 2.5* and the *Cisco Cache Software Command Reference, Release 2.5*.



Note

These updates also appeared in the *Release Notes for Cisco Cache Software, Release 2.5.0*.

Changes to the Cisco Cache Software Configuration Guide, Release 2.5

Page 1-7

Replace text following “First, prepare the CE for configuration” with the following text:

- Step 1 In global configuration mode, enter the following command on the CE:

```
Console(config)# http proxy outgoing exclude enable
```

Step 2 Enter the following command:

```
Console(config)# http proxy incoming 80
```

Step 3 Enter the following command:

```
Console(config)# no http object url-validation
```

Step 4 Enter the following command:

```
Console(config)# boomerang dns enable
```

Changes to the Cisco Cache Software Command Reference, Release 2.5

Page 2-60

Replace the Caution text with the following text:

URL validation is on by default. If you want to use the CE as a content routing agent, you should disable URL validation. Disabling URL validation allows reverse proxy caching between the agent and the content server. If you want to use the CE for transparent caching, we recommend that you keep URL validation enabled, because disabling URL validation might make the CE vulnerable to corruption from the HTTP objects in the cache.

Related Documentation

Cisco Content Routing Software Configuration Guide and Command Reference, Release 1.1

Cisco Cache Software Configuration Guide, Release 2.5

Cisco Cache Software Command Reference, Release 2.5

In addition, refer to any hardware documentation associated with your CE.

Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com>
- <http://www-china.cisco.com>
- <http://www-europe.cisco.com>

Documentation CD-ROM

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

Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation from the Networking Products MarketPlace:
http://www.cisco.com/cgi-bin/order/order_root.pl
- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:
<http://www.cisco.com/go/subscription>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

Documentation Feedback

If you are reading Cisco product documentation on the World Wide Web, you can submit technical comments electronically. Click **Feedback** in the toolbar and select **Documentation**. After you complete the form, click **Submit** to send it to Cisco.

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

To submit your comments by mail, use the response card behind the front cover of your document, or write to the following address:

Attn Document Resource Connection
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

Cisco.com

Cisco.com is the foundation of a suite of interactive, networked services that provides immediate, open access to Cisco information and resources at anytime, from anywhere in the world. This highly integrated Internet application is a powerful, easy-to-use tool for doing business with Cisco.

Cisco.com provides a broad range of features and services to help customers and partners streamline business processes and improve productivity. Through Cisco.com, you can find information about Cisco and our networking solutions, services, and programs. In addition, you can resolve technical issues with online technical support, download and test software packages, and order Cisco learning materials and merchandise. Valuable online skill assessment, training, and certification programs are also available.

Customers and partners can self-register on Cisco.com to obtain additional personalized information and services. Registered users can order products, check on the status of an order, access technical support, and view benefits specific to their relationships with Cisco.

To access Cisco.com, go to the following website:

<http://www.cisco.com>

Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

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

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

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

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

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

Contacting TAC by Telephone

If you have a priority level 1 (P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

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

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

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

AccessPath, AtmDirector, Browse with Me, CCDE, CCIP, CCSI, CD-PAC, *CiscoLink*, the Cisco *NetWorks* logo, the Cisco *Powered Network* logo, Cisco Systems Networking Academy, the Cisco Systems Networking Academy logo, Fast Step, Follow Me Browsing, FormShare, FrameShare, GigaStack, IGX, Internet Quotient, IP/VC, iQ Breakthrough, iQ Expertise, iQ FastTrack, the iQ Logo, iQ Net Readiness Scorecard, MGX, the Networkers logo, *Packet*, RateMUX, ScriptBuilder, ScriptShare, SlideCast, SMARTnet, TransPath, Unity, Voice LAN, Wavelength Router, and WebViewer are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, Discover All That’s Possible, and Empowering the Internet Generation, are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, CCDA, CCDP, CCIE, CCNA, CCNP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Enterprise/Solver, EtherChannel, EtherSwitch, FastHub, FastSwitch, IOS, IP/TV, LightStream, MICA, Network Registrar, PIX, Post-Routing, Pre-Routing, Registrar, StrataView Plus, Stratm, SwitchProbe, TeleRouter, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other trademarks mentioned in this document or Web site 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. (0105R)

Copyright © 2001, Cisco Systems, Inc.
All rights reserved.

