

Release Notes for Cisco Cache Software Release 3.0.0

November 3, 2000



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

Contents

- Introduction, page 2
- System Requirements, page 2
- Release 3.0.0 Feature Set Table, page 4
- New and Changed Information, page 5
- Important Notes, page 6
- Open Caveats, page 11
- · Related Documentation, page 11
- Obtaining Documentation, page 12
- Obtaining Technical Assistance, page 12



Introduction

These release notes contain information for Cisco Cache Software, Release 3.0.0 for the Cisco Content Engine 7320, that is not in the printed user guides. Refer to the *Cisco Cache Software Configuration Guide, Software Release 3.x.x* for the following information:

- · Instructions for configuring and maintaining the Cisco Cache Software
- Descriptions of Web Cache Communication Protocol (WCCP) Version 1 and Version 2



WCCP is variously known as the Web Cache Control Protocol, and the Web Cache Coordination Protocol.

Refer to the *Cisco Cache Software Command Reference, Release 3.0.0* for global configuration, EXEC, show, and interface command descriptions. See the *Cisco Content Networking Hardware Installation Guide for the Seven-Rack Unit Chassis* for information on the Cisco Content Engine 7320.

System Requirements

Hardware Supported

Cisco Cache software, Release 3.0.0 is supported only with the Cisco Content Engine 7320.

Determining the Software Version

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

Upgrading to a New Software Release

The Cisco Cache Software, Release 3.0.0 for the Cisco Content Engine 7320, is available from the following URL:

http://www.cisco.com/cgi-bin/tablebuild.pl/cache-engine30



Release 3.0.0 cannot be used to load any previous version of the Cisco Cache Software. Neither can any previous version of the Cache Software be used to load Release 3.0.0.

The system image file is a binary file (.bin suffix). The .bin file contains the full-image software which includes the graphical user interface (GUI). To upgrade the system software, the Content Engine FTP client software copies the system image file to Content Engine main memory and then writes the image to Flash memory. See the "Recovering the System Software" section on page 2-2 of the *Cisco Cache Software Configuration Guide*, *Software Release 3.x.x*, for instructions on booting the Content Engine in the event that the software upgrade fails.



We recommend that when loading a system image, you redirect traffic around the Content Engine to prevent degrading HTTP service.

The following procedure describes how to upgrade the Content Engine system software and optionally change the boot parameters.

- Step 1 Download the .bin system image file to a Windows NT, LINUX, or UNIX host that is running an FTP server.
- Step 2 Perform the following substeps to copy the system image file from an FTP server to the Content Engine Flash memory. In this example, the FTP server has the IP address 192.168.88.89 with the system image file (ce7320_example.bin) located in the /images directory:
 - a. At the EXEC command line of your Content Engine, enter the following:

```
copy ftp flash 192.168.88.89 /images ce7320_example.bin
```

- b. If the FTP server username prompt appears, enter your username.
- c. If the FTP server password prompt appears, enter your password.

The following messages appear:

```
Initiating FTP download. . . Downloaded 10685440 byte image file A new system image has been downloaded. You should write it to flash at this time. Write to flash [yes]: _
```

To write the new system image to Flash memory, press **Enter** to accept the default (yes) or enter yes.

The following message appears:

Ok,	writing	new	image	to	flash	٠	٠	٠	٠	٠	•		٠	٠	•	•	٠	•	•	•	•	•	•	•	٠	•	•	•	•	٠

d. At the CLI prompt, reboot the Content Engine. Enter:

reload

Release 3.0.0 Feature Set Table

The following table lists the principal features of Cisco Cache Software, Release 3.0.0 and the associated command line interface (CLI) commands.

Cisco Cache Software, Release 3.0.0 Feature	Most Relevant CLI Commands							
Proxy-style caching (Non-transparent operation)								
HTTP proxy caching	http proxy incoming							
FTP proxy caching	ftp							
SSL tunneling	https							
Transparent Network Caching								
Transparent caching with the	http 14-switch enable							
Cisco CSS11000 Series Switch								
Transparency thru WCCP	weep							
Authentication bypass	bypass auth-traffic							
	bypass timer							
Overload bypass	bypass load							
Static bypass	bypass static							
WCCP flow protection	wccp slow-start							
Logging								
Squid-style transaction logging	transaction-logs							
Sanitized transaction logs	transaction-logs sanitize							
Pushing of log files	transaction-logs export							
Cache Hierarchy Features								
Parent Proxy	http proxy outgoing							
	proxy-protocols							
ICP	icp							
Management Features								
Administration from GUI	gui-server							
Administration from CLI	trusted-host							
	user							
Boot from Flash Memory	copy reload							
	write							
SNMP MIB	snmp-server							
SNMP Traps	snmp-server							
Syslog	logging							
NTP time syncing	ntp							
Cache Storage Parameters								
Minimum and Maximum Time To Live settings	http min-ttl							

Cisco Cache Software, Release 3.0.0 Feature	Most Relevant CLI Commands							
Cache freshness	http min-ttl http max-tt http age-multiplier http reval-each-request							
Caching of content with cookies	http cache-cookies							
Object size capping	http object							
Selective abort of object downloading on client-abort (aka "quick_abort")	http cache-on-abort							
TCP Stack Parameters								
User-configurable TCP parameters	tcp							
TCP-over-satellite extensions	tcp client-satellite tcp server-satellite							
Miscellaneous Features								
Embed client information in HTTP headers	http append							
Microsoft NTLM authentication transparency	http authenticate-strip-ntlm							

New and Changed Information

Layer 4 Switch Support

The **http l4-switch enable** global configuration option was added to the command line interface to permit the Content Engine to transparently receive L4 redirected traffic from L4-enabled switches such as the Cisco Systems CSS11000 series switches. See the switch documentation for specific configuration information.

MIBs

The Cisco Cache Software, Release 3.00 SNMPv2 MIB for the Content Engine 7320 is distributed as the file ce7320-mib-300.txt, available on the CCO software distribution site at the following URL:

http://www.cisco.com/cgi-bin/tablebuild.pl/cache-engine

The MIB is not required to install and operate a Content Engine 7320. It is provided for use with a network management application.

To use with a network management application, you must have supporting MIBs in addition to the ce7320-mib-300.txt MIB. These supporting MIBs are named in the table that follows.

	SNMP Version 1	SNMP Version 2
Cisco FTP Directory	ftp://ftp.cisco.com/pub/mibs/v1/	ftp://ftp.cisco.com/pub/mibs/v2/
	SNMPv2-SMI-V1SMI.my	SNMPv2-SMI.my
	SNMPv2-CONF-V1SMI.my	SNMPv2-CONF.my
	CISCO-SMI-V1SMI.my	CISCO-TC.my
Supporting MIB Files	CISCO-TC-V1SMI.my	CISCO-SMI.my



The SNMPv1 copy of the MIB is posted as CISCO-CONTENT-ENGINE-MIB-V1SMI.my on the FTP site. The SNMPv2 copy of the MIB is posted as CISCO-CONTENT-ENGINE-MIB.my

The SNMPv2 MIB provides some high capacity counter statistics objects using Counter64 syntax. Because SNMPv1 does not support Counter64 objects, these objects are not available in the SNMPv1 MIB, but Counter32 syntax of the same objects are available in both MIBs.

Important Notes

Copyright Notices

Third party software used under license accompanies the Cisco Cache Software, Release 3.0.0. One or more of the following notices may apply in connection with the license and use of such third party software.

General Open Source Modules

fxpcontro

Copyright © 1995, David Greenman. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice unmodified, this list of conditions, and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ld.so

Copyright © 1994-1997, Eric Youngdale, Peter MacDonald, David Engel, Hongjiu Lu and Mitch D'Souza. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

The name of the above contributors may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL,

EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

md

Copyright © 1991, 1992, RSA Data Security, Inc. All rights reserved.

License to copy and use this software is granted provided that it is identified as the "RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing this software or this function. License is also granted to make and use derivative works provided that such works are identified as "derived from the RSA Data Security, Inc. MD5 Message-Digest Algorithm" in all material mentioning or referencing the derived work. RSA Data Security, Inc. makes no representations concerning either the merchantability of this software or the suitability of this software for any particular purpose. It is provided "as is" without express or implied warranty of any kind. These notices must be retained in any copies of any part of this documentation and/or software.

mkteme

Copyright © 1996, Todd C. Miller < Todd.Miller@courtesan.com> All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

All advertising materials mentioning features or use of this software must display the following acknowledgement:

This product includes software developed by Todd C. Miller.

The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

ntp-4.0.99j

Copyright © David L. Mills 1992–2000, All rights reserved.

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies and that both the copyright notice and this permission notice appear in supporting documentation, and that the name University of Delaware not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. The University of Delaware makes no representations about the suitability this software for any purpose. It is provided "as is" without express or implied warranty.

strace

Copyright © 1991, 1992, Paul Kranenburg <pk@cs.few.eur.nl>

Copyright © 1993, Branko Lankester
 branko@hacktic.nl>

Copyright © 1993, Ulrich Pegelow <pegelow@moorea.uni-muenster.de>

Copyright © 1995, 1996 Michael Elizabeth Chastain <mec@duracef.shout.net>

Copyright © 1993, 1994, 1995, 1996 Rick Sladkey <jrs@world.std.com> All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Berkeley Software Distribution License Modules

The following third party software is subject to the Berkeley Software Distribution (BSD) license.

ftp-0.16

Copyright © 1989, The Regents of the University of California. All rights reserved.

inetd-0.16

Copyright © 1983, 1991, The Regents of the University of California. All rights reserved.

pıng

Copyright © 1989 The Regents of the University of California. All rights reserved. This code is derived from software contributed to Berkeley by Mike Muuss.

telnet-0.16

Copyright © 1989, The Regents of the University of California. All rights reserved.

tftp

Copyright © 1983, 1993, The Regents of the University of California. All rights reserved.

syslogd

Copyright © 1983, 1988, 1993, 1994, The Regents of the University of California. All rights reserved.

ntil-linn

Copyright © 1989, The Regents of the University of California. All rights reserved.

BSD License

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

Neither the name of the University of California, nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GNU General Public License Modules

Cisco Cache Software, Release 3.0.0 incorporates software licensed under the GNU General Public License. If you would like to source code for any of the modified GPL code in the Cisco Cache Software, Release 3.0.0, please send a request to ce-sw-req@cisco.com.

GNU Public License

Version 2, June 1991

Copyright © 1989, 1991 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Library General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps:(1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

GNU GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation inthe term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

- 2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:
- a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.
- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception:if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

- 3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:
- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,
- c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
- 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.
- 9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

- 11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.
- 12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Open Caveats

The following sections describe caveats still open at the printing of these release notes. Caveats describe unexpected behavior in the Cisco Cache software.

Open Caveats—Release 3.0.0

CSCds55945

The Content Engine FTP proxy may return an error message when accessing a file with an absolute path name even though a Netscape Navigator browser can directly access the file without errors. This behavior occurs only with authenticated requests when the user's home directory differs from his root directory.

Workaround: You can also insert the following string as the first component in the path name:

%2f

For example, if you receive an error message when you attempt to access this path:

ftp://ftp.cisco.com/auto/tasmania/

insert %2f into the path name as follows:

ftp://ftp.cisco.com/%2f/auto/tasmania

You can also try using the URL in the returned error page to access the site.

This caveat will be fixed in Cache software Release 3.0 Patch 1.

CSCds59323

A software condition has been observed that shuts down transparent caching services on the Content Engine 7320. This can occur once a week under normal operation. To detect this condition, log on to the router and enter the **show ip wccp view** command. The condition may be present if the previously configured and active Content Engine in question is no longer visible or active. Log on to the Content Engine and enter the **show stat http performance** command. The following error message indicates that this condition probably exists:

EDM not responding

Workaround: Power cycle the Content Engine to restart WCCP services. This caveat will be fixed in Cache software Release 3.0 Patch 1.

Related Documentation

For additional information on the CiscoContent Engine 7320, see the following documentation:

- Cisco Content Networking Hardware Installation Guide for the Seven-Rack Unit Chassis
- Regulatory Compliance and Safety Information for the Cisco Cache Engine Series
- Cisco Storage Array 12 Installation and Configuration Guide
- Cisco Storage Array 6 Installation and Configuration Guide
- Cisco Cache Software Configuration Guide, Release 3.x.x
- · Release Notes for the Cisco Storage Array

Obtaining Documentation

World Wide Web

You can access the most current Cisco documentation on the World Wide Web at http://www.cisco.com, http://www-china.cisco.com, or 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. Therefore, it is probably more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

Ordering Documentation

Registered CCO users can order the Documentation CD-ROM and other Cisco Product documentation through our online Subscription Services at http://www.cisco.com/cgi-bin/subcat/kaojump.cgi.

Nonregistered CCO users can order documentation through a local account representative by calling Cisco's corporate headquarters (California, USA) at 408 526-4000 or, in North America, call 800 553-NETS (6387).

Obtaining Technical Assistance

Cisco provides Cisco Connection Online (CCO) as a starting point for all technical assistance. Warranty or maintenance contract customers can use the Technical Assistance Center. All customers can submit technical feedback on Cisco documentation using the web, e-mail, a self-addressed stamped response card included in many printed docs, or by sending mail to Cisco.

Cisco Connection Online

Cisco continues to revolutionize how business is done on the Internet. Cisco Connection Online 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.

CCO's broad range of features and services helps customers and partners to streamline business processes and improve productivity. Through CCO, you will find information about Cisco and our networking solutions, services, and programs. In addition, you can resolve technical issues with online support services, 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 CCO to obtain additional personalized information and services. Registered users may order products, check on the status of an order and view benefits specific to their relationships with Cisco.

You can access CCO in the following ways:

- WWW: www.cisco.com
- Telnet: cco.cisco.com
- Modem using standard connection rates and the following terminal settings: VT100 emulation; 8 data bits; no parity; and 1 stop bit.
 - From North America, call 408 526-8070
 - From Europe, call 33 1 64 46 40 82

You can e-mail questions about using CCO to cco-team@cisco.com.

Technical Assistance Center

The Cisco Technical Assistance Center (TAC) is available to warranty or maintenance contract customers who need technical assistance with a Cisco product that is under warranty or covered by a maintenance contract.

To display the TAC web site that includes links to technical support information and software upgrades and for requesting TAC support, use www.cisco.com/techsupport.

To contact by e-mail, use one of the following:

Language	E-mail Address
English	tac@cisco.com
Hanzi (Chinese)	chinese-tac@cisco.com
Kanji (Japanese)	japan-tac@cisco.com
Hangul (Korean)	korea-tac@cisco.com
Spanish	tac@cisco.com
Thai	thai-tac@cisco.com

In North America, TAC can be reached at 800 553-2447 or 408 526-7209. For other telephone numbers and TAC e-mail addresses worldwide, consult the following web site: http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml.

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, for your convenience many documents contain a response card behind the front cover. Otherwise, you can mail your comments to the following address:

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

We appreciate and value your comments.

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

Access Registrar, AccessPath, Are You Ready, ATM Director, Browse with Me, CCDA, CCDE, CCDP, CCIE, CCNA, CCNP, CCSI, CD-PAC, CiscoLink, the Cisco NetWorks logo, the Cisco Powered Network logo, Cisco Systems Networking Academy, Fast Step, FireRunner, Follow Me Browsing, FormShare, GigaStack, IGX, Intelligence in the Optical Core, Internet Quotient, IP/VC, iQ Breakthrough, iQ Expertise, iQ FastTrack, iQuick Study, iQ Readiness Scorecard, The iQ Logo, Kernel Proxy, MGX, Natural Network Viewer, Network Registrar, the Networkers logo, Packet, PIX, Point and Click Internetworking, Policy Builder, RateMUX, ReyMaster, ReyView, ScriptShare, Secure Script, Shop with Me, SlideCast, SMARTnet, SVX, TrafficDirector, TransPath, VlanDirector, Voice LAN, Wavelength Router, Workgroup Director, and Workgroup Stack are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, Empowering the Internet Generation, are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, Cisco, the Cisco Certified Internetwork Expert Logo, Cisco IOS, the Cisco IOS logo, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Collision Free, Enterprise/Solver, EtherChannel, EtherSwitch, FastHub, FastLink, FastPAD, IOS, IP/TV, IPX, LightStream, LightSwitch, MICA, NetRanger, Post-Routing, Pre-Routing, Registrar, StrataView Plus, Stratm, SwitchProbe, TeleRouter, are registered trademarks of Cisco Systems, Inc. or its affiliates in the U.S. and certain other countries.

All other brands, names, or trademarks mentioned in this document/website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any of its resellers. (0008R)

Copyright © 2000, Cisco Systems, Inc. All rights reserved.

Obtaining Technical Assistance