



INDEX

Symbols

! (exclamation point) **2-791, 2-800**
- (hyphen) **2-200, 2-233, 2-334, 2-800, 2-804, 2-916**
* (wildcard character) **2-220, 2-381**
... (ellipsis) **2-800, 2-803**
.bin files
 installing **2-261**
.nsc file **2-720, 2-909**
.pac file **2-378, 2-380**
.pax files
 installing **2-261**
/ (slash) **2-71, 2-262**
? (question mark) **2-199**

A

aaa accounting
 command accounting **2-25**
 configuration, displaying **2-430**
 configuring authentication, authorization,
 accounting **2-24**
 EXEC shell accounting **2-25**
 statistics for **2-661**
 system accounting **2-25**
 with TACACS+ **2-24**
accelerated WCCP support **2-839**
acceptable use policy
 LDAP **2-297**
access lists
 applying to interfaces **2-276**
 configuration, displaying **2-432**
 configuring **2-28**

enabling **2-28**
for access through SNMP agent **2-732**
for group authentication **2-296**
group names **2-29**
interfaces and applications
 applying to **2-277**
 status **2-521**
statistics
 clearing **2-98**
 displaying **2-582**
WCCP **2-835**
access lists, group-name based
 for group authorization **2-296**
access lists, WCCP
 configuring **2-835**
 displaying **2-836**
ACLs
 See IP ACLs
ACNS caching application
 installing **2-261**
ACNS network statistics
 displaying **2-451**
ACPI
 models supporting **2-728**
acquirer
 channel information and content acquisition progress,
 displaying **2-433**
 channel statistics, displaying **2-583**
 starting and stopping acquisition on a specific
 channel **2-30**
acquisition and distribution
 starting and stopping **2-36**
acronyms, list of **A-1**
action rule

- configuring [2-413](#)
- Active Directory groups
 - group searches [2-351](#)
- address translation tables [2-439](#)
- administrative login authentication and authorization
 - default [2-42](#)
 - local database
 - description of [2-43](#)
- RADIUS
 - enabling and disabling [2-385](#)
 - overview of [2-43](#)
- TACACS+
 - enabling and disabling [2-761](#)
 - overview of [2-44](#)
- administrative privileges
 - users, clearing [2-101](#)
- advanced bandwidth
 - clearing statistics [2-98](#)
 - configuring [2-56](#)
- alarm information
 - for all alarms [2-436](#)
 - for critical alarms [2-437](#)
 - for major alarms [2-437](#)
 - for minor alarms [2-437](#)
- alarm overload [2-37](#)
- alarms
 - displaying status and history [2-436](#)
- alarm traps
 - configuring [2-737](#)
 - generating [2-737](#)
- Apache CLF transaction log format [2-800](#)
- API
 - content routing [2-118](#)
- applications
 - applying access lists to [2-277](#)
- archive log file
 - compressing [2-807](#)
 - marking beginning and end [2-799](#)
 - maximum size [2-799](#)
- naming convention [2-806](#)
- ARP table, displaying [2-439](#)
- asset tag
 - naming [2-39](#)
- AUP
 - configuration of [2-297](#)
 - description of [2-297](#)
- authenticated requests
 - clearing users [2-101](#)
- authentication
 - access lists, enabling [2-28](#)
 - basic end-to-end pass-through [2-213](#)
 - cache size, adjusting [2-214](#)
 - configuration, displaying [2-440](#)
 - configuring [2-41](#)
 - HTTP
 - LDAP [2-212](#)
 - RADIUS [2-212](#)
 - security options [2-214](#)
 - LDAP group [2-296](#)
 - NTLM
 - primary domain controller [2-210](#)
 - outgoing proxy [2-33](#)
 - server redundancy [2-43](#)
 - statistics
 - clearing [2-98](#)
 - displaying [2-585](#)
 - storing records locally [2-210](#)
 - TACACS+ [2-211](#)
 - traffic bypass [2-66](#)
 - users
 - creating [2-832](#)
 - local [2-41](#)
 - TACACS+ [2-41, 2-42](#)
 - Windows files servers [2-334](#)
 - authentication, authorization, and accounting
 - See AAA
 - authentication cache
 - displaying configuration [2-508](#)

- size adjustments **2-214**
 authentication command **2-42**
 authorization
 administrative login authorization **2-40**
 automatic browser configuration
 enabling and disabling **2-380**
 state, displaying **2-549**
 automatic registration of ACNS devices
 displaying **2-442**
 autoregistration
 DHCP server requirements **2-48**
 autosense
 on Ethernet interfaces, enabling and disabling **2-51**
-
- B**
- backup interface
 configuring **2-756**
 bad sites list
 reloading **2-821**
 bandwidth
 content preload maximum **2-371**
 displaying **2-443**
 interface, configuring **2-57**
 multicast **2-315**
 network resources and **2-53**
 setting for streaming media **2-52**
 bandwidth configuration
 advanced configuration **2-52**
 incoming and outgoing **2-54**
 subnet-based bandwidth control **2-54**
 bandwidth control
 and content preloading **2-371**
 banners
 configuration of **2-59**
 displaying **2-445**
 enabling **2-60**
 types of
 EXEC **2-60**
- login **2-60**
 motd **2-60**
 basic configuration settings
 setting up **2-429**
 beginning preload operation **2-375**
 BIOS upgrades **2-122**
 bit rate
 displaying **2-446**
 HTTP and WMT, configuring **2-62**
 block.html
 customized blocking message **2-827**
 blocking messages **2-827**
 boomerang
 intercepting and redirecting DNS packets **2-843**
 browser autoconfiguration
 enabling and disabling **2-380**
 state, displaying **2-549**
 bypass
 authentication **2-66**
 configuration, displaying **2-447**
 counters and lists, clearing **2-97**
 disabling and enabling **2-65**
 dynamic traffic **2-66**
 maximum number of static entries **2-447**
 overload **2-67**
 static **2-68**
 static lists, configuring **2-65**
 statistics, displaying **2-587**
 total number of entries **2-447**
 WCCP Version 2 and **2-66**
 bypassing
 RTSP gateway **2-401**
-
- C**
- cache
 clearing **2-70, 2-97**
 forced object deletion **2-70**
 irreversible once erased **2-70**

- LDAP size [2-299](#)
- resetting [2-70](#)
- synchronizing [2-70](#)
- cache file system
 - See cfs
- cache freshness
 - for FTP cache [2-188](#)
- caching
 - CTE HTTP objects [2-213](#)
- FTP native
 - configuration [2-177](#)
 - statistics [2-497](#)
- FTP-over-HTTP [2-187](#)
 - configuration [2-183](#)
 - statistics [2-98, 2-498](#)
- HTTP
 - authentication [2-99, 2-504, 2-626](#)
 - configuring [2-209](#)
 - objects [2-97](#)
- HTTPS
 - configuration [2-243](#)
 - status [2-509](#)
- LDAP [2-299](#)
- matching against parameters for requests [2-413](#)
- native FTP
 - statistics [2-98](#)
- RealMedia, disabling [2-403](#)
- TFTP [2-784](#)
- caching application, installing [2-261](#)
- caching services
 - setting up [2-429](#)
- calendar
 - setting [2-103](#)
- CAR
 - IP precedence
 - ToS [2-273](#)
- carousels
 - fixed [2-315](#)
 - resetting [2-155](#)
- CDN file system
 - See cdnfs
- cdnfs
 - information, displaying [2-450](#)
 - statistics, displaying [2-589](#)
- CDP
 - configuration, displaying [2-453](#)
 - configuring [2-79](#)
 - counters and tables, clearing [2-97](#)
 - enabling on an interface [2-81](#)
- Centralized Management System
 - See CMS
- certificates
 - HTTPS [2-232](#)
- cfs
 - configuring [2-82](#)
 - erasing and reformatting [2-82](#)
 - information, displaying [2-459](#)
 - statistics, displaying [2-459, 2-591](#)
- channel
 - creating and configuring [2-84](#)
- channel distribution
 - information, displaying [2-478](#)
 - metadata, multicast, and unicast statistics, clearing [2-98](#)
- channel groups
 - adding and removing [2-95](#)
- chunked transfer coding
 - description of [2-213](#)
 - enabling [2-213](#)
- CIFS
 - servers
 - displaying statistics [2-593](#)
 - extending storage with [2-330](#)
- Cisco Discovery Protocol
 - See CDP
- Cisco script
 - executing [2-428](#)
- Cisco Streaming Engine server
 - displaying license agreement [2-553](#)

- live streaming with **2-398**
- statistics, clearing **2-99**
- Cisco Technical Assistance Center (TAC) **2-697**
- classification
 - IP precedence
 - ToS field **2-273**
 - clean shutdown **2-872**
 - client request bypass **2-168**
 - clock
 - clearing and setting **2-103**
 - Content Engine, synchronizing **2-356**
 - daylight saving and local time, setting **2-105**
 - displaying standard timezones **2-461**
 - software time and date, setting **2-358**
 - system clock settings, displaying **2-461**
 - UTC current time of day, setting **2-106**
 - UTC offset, setting **2-106**
 - CMS
 - database, configuring **2-108**
 - enabling **2-111**
 - maintenance routines, scheduling **2-111**
 - process information, displaying **2-464**
 - cold restart **2-388**
 - command-line processing **1-1**
 - command modes
 - EXEC **1-3**
 - global configuration **1-3**
 - interface configuration **1-4**
 - command syntax **1-4**
 - Common Internet File System
 - See CIFS
 - configuration modes
 - extended ACL **2-278**
 - HTTPS server **2-243**
 - ICAP service **1-4**
 - standard ACL **2-278**
 - configuring
 - alarm traps **2-737**
 - disk space allocation **2-145**
 - FTP native caching service
 - on Content Engines **2-849**
 - https-cache service
 - on Content Engines **2-855**
 - RADIUS authentication **2-43**
 - congestion windows
 - about **2-768**
 - connectivity
 - testing multicast **2-319**
 - console
 - setting length of display **2-779**
 - content acquisition
 - database cleanup **2-36**
 - starting and stopping **2-36**
 - Content Distribution Manager
 - configuring IP address **2-72**
 - disk space allocation **2-147**
 - primary role **2-108**
 - SSL **2-108**
 - standby role **2-72**
 - Content Engine
 - as Websense server **2-889**
 - automatic reload **2-153**
 - BIOS upgrade support **2-122**
 - content preloading
 - creating a filter for **2-370**
 - default start time **2-370**
 - NTLM preloading support **2-368**
 - preloading authenticated content **2-370**
 - resuming after aborting **2-370**
 - scheduling **2-370**
 - setting DSCP **2-371**
 - setting the Type of Service (ToS) **2-371**
 - specifying maximum bandwidth for **2-371**
 - status of the current preload **2-374**
 - viewing statistics for **2-373**
 - Content Routers
 - disk space allocation **2-147**
 - content routing

- forwarding tables [2-467](#)
- simplified hybrid routing table, displaying [2-467](#)
- statistics
- clearing [2-98](#)
 - displaying [2-595](#)
- content routing API
- enabling [2-118](#)
- conventions
- document [xiv](#)
- copying
- configuration data [2-119](#)
 - files [2-122, 2-126](#)
 - image data [2-119](#)
- CTE HTTP objects, caching [2-213](#)
- custom blocking messages [2-827](#)
- in URL filtering [2-825](#)
- customizing HTTP error pages [2-226](#)
- custom transaction log format [2-800](#)
- custom web caching
- WCCP, enabling [2-838](#)
-
- D**
- DAS Fibre Channel SAN [2-312](#)
- database cleanup
- content acquisition and distribution [2-36](#)
- date and time
- setting [2-358](#)
- daylight saving time
- setting [2-105](#)
- debug
- disabling [2-820](#)
 - enabled options, displaying [2-470](#)
 - enabling [2-170](#)
 - software functions [2-127](#)
- debug cdnfs command [2-135](#)
- default gateway
- defining [2-269](#)
 - removing [2-269](#)
- default status
- restoring [2-391, 2-395](#)
- deleting
- directories [2-138, 2-394](#)
 - directory trees [2-138](#)
 - files [2-137](#)
 - legacy E-CDN data files [2-77](#)
- device mode
- and linked CLI commands [1-1](#)
 - configuring [2-139](#)
 - displaying [2-471](#)
- devices
- shutting down [2-727](#)
- DHCP server
- requirements for autoregistration [2-48](#)
- DHCP services
- enabling [2-265](#)
- differentiated service model
- classification [2-273](#)
- direct attached storage
- See DAS Fibre Channel SAN
- directing requests back to proxy server [2-381](#)
- directories
- changing [2-71](#)
 - creating [2-310](#)
 - deleting [2-138, 2-394](#)
 - files, viewing [2-142, 2-303](#)
- disk drives
- error handling thresholds
 - description of [2-153](#)
 - specifying [2-153](#)
 - manually unmarking [2-148](#)
 - removing partitions from [2-148](#)
- disks
- configuring [2-144](#)
 - space allocation [2-145](#)
 - details, viewing [2-473](#)
 - partitions, removing [2-391](#)
 - space allocation [2-144](#)

- space-allocation guidelines **2-147**
- disk space allocated to system use **2-146**
- distribution
- channel, displaying **2-478**
 - statistics
 - displaying **2-478**
- DNS
- WCCP and **2-843**
- DNS cache
- managing **2-160**
 - statistics
 - clearing **2-98**
 - displaying **2-607**
 - status
 - displaying **2-494**
- DNS caching service
- overview of **2-161**
- DNS lookup **2-165**
- DNS server
- listener **2-162**
 - maximum memory limit **2-163**
- document conventions **xiv**
- domain name
- resolving to IP address **2-165**
- downloading proxy automatic configuration file **2-378**
- DSCP
- rule action **2-415**
 - Rules Template **2-371**
 - setting **2-268**
 - support for preload traffic **2-371**
- dumping network traffic **2-772**
- DWRED
- IP precedence
 - ToS **2-273**
- dynamic bypass entries **2-447**
- dynamic proxy autoconfiguration
- overview **2-537**
- dynamic proxy autoconfiguration file server
- information **2-537**
- dynamic traffic bypass **2-66**
- dynamic WCCP services **2-858**
-
- E**
- echo packets
- sending **2-364**
- EIM
- through URL filtering with SmartFilter **2-829**
 - Websense **2-889**
 - ellipsis (...) **2-800, 2-803**
 - embedded database parameters
 - configuring **2-107**
 - employee Internet management
 - See EIM
 - enabling
 - authentication, authorization, and accounting **2-24**
 - automatic registration on an interface **2-48**
 - Cisco Discovery Protocol **2-79**
 - DNS cache **2-160**
 - dynamic authentication bypass **2-66**
 - FTP, RCP, and TCTP services **2-260**
 - login authentication and authorization **2-40**
 - NTLM allow domain list **2-350**
 - NTLM authentication and authorization **2-346**
 - offline operation **2-359**
 - RADIUS authentication and authorization **2-386**
 - rules processing **2-410**
 - SNMP agent **2-733**
 - TACACS+ authentication and authorization **2-761**
 - transparent error handling **2-168**
 - WCCP **2-878**
 - enabling and disabling
 - NTLM allow domain lists **2-350**
 - end-to-end authentication
 - basic **2-213**
 - erasing and reformatting cfs **2-82**
 - error handling
 - configuration, displaying **2-495**

- default [2-168](#)
 enabling [2-65, 2-170](#)
 options, setting [2-168](#)
- error pages
 customizing HTTP [2-226](#)
- EtherChannel [2-95](#)
- Ethernet MAC address mapping [2-839](#)
- Event MIB
 configuring persistence for [2-744](#)
- exception
 coredump [2-170](#)
 debug [2-170](#)
- exclamation point (!) [2-791, 2-800](#)
- excluding
 domain name, host name, or IP address [2-381](#)
- domains
 from HTTP authentication servers [2-212](#)
 from LDAP authentication [2-297](#)
- EXEC command mode
 described [1-3](#)
 returning to [2-172](#)
- exiting
 from configuration modes [2-172](#)
 from privileged EXEC mode [2-143](#)
- explicit congestion notification
 about [2-768](#)
- exporting transaction logs
 forced [2-792](#)
 to FTP server [2-807](#)
 to SFTP server [2-808](#)
- extended access lists [2-278](#)
- extended IP ACLs
 configuration examples [2-285](#)
 configuring [2-279](#)
- ICMP message types [2-282](#)
- supported keywords [2-281](#)
 TCP keywords [2-282](#)
- Extended Squid transaction log format [2-800](#)
- external FTP server
- exporting transaction logs to [2-808](#)
 permanent error from [2-808](#)
-
- F**
- failover
 for administrative login authentication [2-43](#)
 for proxy [2-219](#)
- Fast Cache
 enabling [2-905](#)
- Fast Ethernet
 adding ports [2-95](#)
 configuring interface [2-262](#)
 negating interface configuration command [2-341](#)
- Fast Start
 enabling [2-906](#)
- fetch and preload
 managing [2-366](#)
- Fibre Channel
 configuring interface [2-262](#)
 negating interface configuration [2-341](#)
 setting interface speed [2-752](#)
 setting the operating mode [2-312](#)
- file
 copying [2-126](#)
 creating [2-311, 2-792](#)
 deleting [2-137](#)
 displaying name [2-303, 2-815](#)
 management [2-71](#)
 renaming [2-390](#)
- file servers
 Windows [2-334](#)
- filtering services
 URL filtering [2-824](#)
- fixed carousel [2-315](#)
- flash memory
 configuring upon reload [2-388](#)
 data, removing [2-391](#)
 version and usage, displaying [2-496](#)

flow redirection
 WCCP, enabling **2-847**
 forcibly deleting objects from cfs **2-82**

forwarding
 HTTP, HTTPS, and FTP proxy-style requests **2-381**
 MMS-over-HTTP **2-382**

forwarding table
 displaying **2-467**
 FTP
 access lists **2-279**
 configuring connection settings **2-187**

FTP-over-HTTP caching
 overview of **2-187**
 intercepting FTP traffic with WCCP **2-848**
 native FTP caching
 overview of **2-178**
 pre-positioned content and **2-92**
 services, enabling **2-260**

FTP caching
 nontransparent FTP native caching **2-179**

FTP native
 caching
 configuring services **2-177**
 displaying statistics **2-497**
 displaying statistics **2-611**
 statistics, displaying **2-611**

ftp native caching service
 configuring
 on Content Engines **2-849**

FTP native statistics
 displaying **2-497**

FTP over HTTP
 Rules Template and **2-414**

FTP-over-HTTP
 caching
 clearing statistics **2-98**
 configuring services **2-183**
 displaying statistics **2-498**
 caching and **2-187**

displaying statistics **2-612**
 proxy failover **2-190**
 statistics, displaying **2-612**
 FTP-over-HTTP caching
 overview of **2-187**
 FTP-over-HTTP statistics
 displaying **2-498**
 FTP servers
 exporting transaction logs to **2-807**
 full-duplex operation **2-193**

G

generic routing encapsulation
 See GRE encapsulation
 Gigabit Ethernet
 configuring **2-262**
 negating interface configuration command **2-341**
 global configuration command mode
 entering **2-114**
 exiting **2-167**
 negating command **2-338**
 setting **2-114**
 global configuration mode
 description **1-3**
 global exclusion from proxy forwarding **2-381**
 GMT
 changing local time in content to **2-30**
 UTC and **2-106**
 good sites list
 reloading **2-821**
 graphical user interface
 See GUI server
 GRE encapsulation **2-682**
 Greenwich Mean Time
 See GMT
 group authentication
 LDAP **2-296**
 group authorization

Active Directory group searches **2-351**

of LDAP users **2-296**

group names

access lists **2-29**

GUI server

enabling and disabling **2-195**

information, displaying **2-499**

port **2-195**

status **2-499**

H

half-duplex operation **2-197**

hardware interface

displaying information **2-515**

shutting down **2-726**

hardware status, displaying **2-500**

healing mode

configuring **2-217**

help system **1-6, 2-199**

hierarchical caching

in proxy mode **2-214, 2-297**

setting transparent mode with upstream proxy **2-298**

transparent mode **2-298**

hinted files

playing **2-544**

history

statistics, clearing **2-98**

home router **2-852**

hostname

of Content Engine **2-200**

resolving to IP address **2-165**

hosts

name servers and IP addresses, displaying **2-503**

HTTP

and DNS caching **2-216**

and URL monitoring **2-218**

authentication cache

clearing statistics **2-99**

displaying information **2-504, 2-508**

displaying statistics **2-626**

bandwidth, setting **2-52**

bit rate, setting **2-62**

customizing error pages **2-226**

object cache

clearing **2-97**

configuring **2-209**

pre-positioned content **2-92**

proxy failover **2-219**

related parameters, configuring **2-201**

request authentication

considerations **2-210**

excluding domains **2-212**

NTLM **2-212**

RADIUS **2-212**

statistics, displaying **2-614**

status codes **2-800**

transaction logging **2-799**

URL filtering **2-822**

users, managing **2-833**

HTTP authentication cache

configuration of **2-210**

displaying configuration of **2-626**

HTTP DNS cache

maximum size **2-206**

HTTP proxy

for WMT streaming media **2-382**

support for root Content Engine **2-33**

HTTPS

caching **2-243**

certificates **2-232**

Content Engine security **2-239**

outgoing proxy **2-239**

pre-positioned content and **2-92**

proxy

configuring services **2-236**

displaying status **2-509**

proxy failover **2-190, 2-240**

proxy mode **2-238**
 Rules Template with **2-414**
 server configuration mode **2-243**
 server status **2-509**
 statistics
 clearing **2-99**
 displaying **2-241, 2-629**
 transaction logging **2-241**
 transparent mode **2-238**
 https **2-240**
 https-cache service
 configuring
 on Content Engines **2-855**
 HTTPS caching
 configuration of **2-237**
 SSL termination and **2-237**
 HTTPS outgoing proxy servers
 configuring **2-240**
 displaying current state of **2-510**
 monitoring **2-241**
 HTTPS server
 WCCP flow redirection to **2-853**
 HTTPS statistics
 displaying **2-509**
 HTTP statistics
 displaying **2-505**
 HTTP transparent caching
 configuring **2-839**
 hyphen (-) **2-200, 2-233, 2-234, 2-334, 2-800**

IANA **2-862**
 ICAP **2-248**
 configuration
 displaying **2-511**
 services
 configuring **2-252**
 statistics

displaying **2-630**
 working with third-party applications **2-248**
 ICAP service configuration mode **1-4**
 ICMP
 access lists **2-279**
 keywords for message type and code **2-283**
 statistics
 clearing **2-99**
 displaying **2-633**
 ICP
 configuration, displaying **2-513**
 configuring **2-257**
 enabling server and client **2-259**
 statistics
 clearing **2-99**
 IFP
 role of **2-828**
 image data
 copying **2-119**
 inetd **2-260, 2-514**
 initial network device settings
 changing **2-268**
 installing system image **2-261**
 intelligent carousel **2-315**
 interface
 applying access lists **2-276**
 bandwidth **2-57**
 configuring **2-262**
 displaying hardware status **2-515**
 full-duplex **2-193**
 half-duplex **2-197**
 identifiers **2-265**
 standby **2-574, 2-756**
 interface configuration command mode **1-4**
 interface-level DHCP
 note **2-48**
 Internet Assigned Numbers Authority
 See IANA
 Internet Cache Protocol

- See ICP
- Internet Content Adaptation Protocol
See ICAP
- Internet Filtering Protocol
See IFP
- Internet socket connection statistics
displaying [2-646](#)
- inventory information
displaying [2-519](#)
- IP/TV program manager [2-288](#)
- IP/TV programs
configuring multicast IP addresses for [2-545](#)
hinted and nonhinted [2-544](#)
- IP ACLs
activating on an interface [2-285](#)
and SNMP [2-732](#)
and TFTP [2-786](#)
and WCCP [2-835](#)
applying to interface [2-264](#)
clearing IP ACL counter [2-98](#)
creating and modifying [2-277](#)
description of [2-280](#)
extended configuration mode
accessing [2-279](#)
extended IP ACLs [2-281](#)
standard configuration mode
accessing [2-278](#)
standard IP ACLs [2-281](#)
typical uses of [2-280](#)
- IP address
changing [2-286](#)
Content Distribution Manager, configuring [2-72](#)
Content Engine, configuring [2-286](#)
negotiating DHCP with [2-286](#)
secondary interface [2-286](#)
starting autodiscovery utility [2-269](#)
statistics, clearing [2-99](#)
- IP addresses
multiple IP addresses on a single interface [2-265](#)
- IP default domain name
defining [2-269](#)
removing [2-269](#)
- IP default gateway
defining [2-269](#)
removing [2-269](#)
- IP multicasting
Layer 2 multicast address considerations [2-839](#)
- IP precedence
edge function [2-273](#)
ToS field
classification [2-273](#)
- IP route table, displaying [2-523](#)
- IP spoofing [2-875](#)
- IP statistics
displaying [2-641](#)
-
- K**
- kernel debugger [2-290](#)
- keystroke combinations, CLI [1-2](#)
-
- L**
- Last-Modified-Time [2-30](#)
- launching
Setup utility [2-429](#)
- Layer 2
multicast address [2-839](#)
redirection [2-839](#)
- Layer 4 switch
bypassing of HTTP requests [2-66](#)
- LDAP
Active Directory [2-296](#)
configuring [2-291](#)
parameters, displaying [2-524](#)
security options [2-294, 2-297](#)
statistics

- clearing [2-99](#)
- displaying [2-643](#)
- LDAP acceptable use policy
 - configuration of [2-297](#)
 - description of [2-297](#)
- LDAP authentication
 - cache size [2-299](#)
 - group access lists [2-296](#)
- HTTP
 - excluding domains [2-212](#)
 - requests [2-212](#)
- RADIUS authentication and [2-210](#)
- Websense filtering [2-297](#)
- LDAP databases
 - contents of [2-296](#)
 - structure of [2-295](#)
- LDAP directory service
 - description of [2-295](#)
 - directory entries [2-295](#)
- LDAP password expiration
 - configuration of [2-297](#)
 - description of [2-297](#)
- LDAP referral
 - description of [2-352](#)
 - enabling [2-352](#)
- LDAP servers
 - types of [2-293](#)
- legacy E-CDN files
 - deleting [2-77](#)
- LESS application [2-300](#)
- license agreement
 - Cisco Streaming Engine server [2-553](#)
 - multicast client [2-315](#)
 - RealProxy [2-553](#)
 - RealSubscriber [2-553](#)
 - WMT [2-900](#)
- Lightweight Directory Access Protocol
 - See LDAP
- lists
- directory names [2-303](#)
- file [2-308](#)
- live events
 - about [2-545](#)
 - configuration requirements [2-545](#)
- live streaming
 - with Cisco Streaming Engine [2-398](#)
- live stream interruptions [2-545](#)
- load balancing
 - for Port Channel [2-365](#)
- local content
 - serving [2-786](#)
- local good and bad sites lists
 - reloading [2-821](#)
- local lists and URL filtering [2-825](#)
- local time, changing to GMT [2-30](#)
- log file
 - number of lines to view [2-817](#)
- log files
 - exporting [2-805](#)
 - restarting the export of [2-810](#)
- logging
 - clearing syslog messages [2-98](#)
 - configuring [2-304](#)
 - file rotation of logs [2-306](#)
 - RealProxy errors [2-307](#)
 - WMT multicast [2-899](#)
- logging in
 - to Content Engine
 - using SSH [2-753](#)
 - using Telnet [2-778](#)
- logical disk
 - creating for Storage Array [2-147](#)
- login authentication [2-41](#)

M

- MAC address table
- limitation [2-839](#)

- mapping syslog priority levels to RealProxy error codes [2-307](#)
- maximum concurrent jobs for multicast, setting [2-317](#)
- Maximum Transmission Unit
See MTU
- media file system
See mediasfs
- mediasfs
cache disk space allocation [2-309](#)
file information, displaying [2-528](#)
statistics, displaying [2-645](#)
- memory statistics
displaying [2-529](#)
- MIB persistence data
writing to disk [2-919](#)
- MIBs
supported [2-744](#)
- MIB view
defining [2-750](#)
- migrating content [2-77](#)
- minimum bandwidth for multicast, setting [2-317](#)
- modes
command
EXEC [1-3](#)
global configuration [1-3](#)
interface configuration [1-4](#)
- configuration
extended ACL [1-4](#)
HTTP server [1-4](#)
ICAP service [1-4](#)
standard ACL [1-4](#)
Fibre Channel interface [2-312](#)
- mounting and unmounting the cfs [2-82](#)
- mounting to NAS devices [2-331](#)
- MTU
setting packet size [2-314](#)
- multicast
configuring client options [2-315](#)
disabling backup senders [2-112](#)
- displaying license and configuration [2-530](#)
on-demand [2-155](#)
overview [2-907](#)
priority [2-315](#)
removing license key [2-318](#)
specific objects [2-155](#)
testing connectivity [2-319](#)
WMT, logging [2-908](#)
- multicast carousel [2-315](#)
- multicast cloud, displaying information [2-478](#)
- multicast-in and multicast-out [2-907](#)
- multicast-in and unicast-out [2-909](#)
- multicasting
definition [2-316](#)
- multicast IP addresses
configuring for IP/TV programs [2-545](#)
- multicast logging
WMT [2-908, 2-913](#)
- multicast stations
defining [2-908](#)
description of [2-908](#)
starting and stopping [2-898](#)
- multiple IP addresses
configuring on a single interface [2-265](#)
-
- N**
- N2H2 URL filtering [2-825, 2-828](#)
- naming asset tag [2-39](#)
- NAS
attaching to devices [2-330](#)
status
displaying [2-531](#)
- NAT
configuring [2-173](#)
- native FTP
caching
clearing statistics [2-98](#)
- native FTP caching

- overview of [2-178](#)
 - near-miss
 - definition [2-217](#)
 - negating interface configurations [2-341](#)
 - Network Address Translation
 - See NAT
 - network-attached storage
 - see NAS
 - network connectivity
 - testing [2-364](#)
 - Network File System
 - See NFS servers
 - network host name
 - Content Engine [2-200](#)
 - network interfaces
 - configuring for DHCP [2-265](#)
 - configuring multiple IP addresses [2-265](#)
 - defining descriptions [2-265](#)
 - EtherChannel [2-266](#)
 - Fibre Channel [2-266](#)
 - network statistics
 - displaying [2-451](#)
 - Network Time Protocol
 - See NTP
 - network traffic
 - dumping [2-772](#)
 - NFS servers, extending storage with [2-330](#)
 - node
 - activating [2-108](#)
 - communication over secure channels [2-108](#)
 - nonbusy objects
 - deleting from cache [2-82](#)
 - nonhinted files
 - playing [2-544](#)
 - nontransparent FTP native caching
 - description of [2-179](#)
 - NT LAN Manager authentication
 - See NTLM authentication
 - NTLM
 - description of [2-346](#)
 - NTLM allow domain lists
 - enabling and disabling [2-350](#)
 - NTLM authentication
 - configuring and enabling [2-344](#)
 - HTTP requests [2-212, 2-346](#)
 - parameters, displaying [2-533](#)
 - prerequisites [2-347](#)
 - statistics
 - clearing [2-99](#)
 - displaying [2-647](#)
 - supported [2-210](#)
 - transparent mode [2-347](#)
 - NTLM preloading support [2-368](#)
 - NTLM servers
 - configuring for Content Engine [2-346](#)
 - NTP
 - configuring and enabling [2-356](#)
 - setting software time and date [2-358](#)
 - status, displaying [2-535](#)
 - system clock, synchronizing [2-356](#)
 - number of lines displayed [2-779](#)
 - NVRAM
 - configuration stored, displaying [2-575](#)
 - startup configuration, writing or erasing [2-919](#)
-

O

- offline operation
- enabling [2-359](#)
- offset from UTC [B-1](#)
- on-demand multicasts [2-155](#)
- online help [2-199](#)
- outgoing FTP-over-HTTP proxy servers
 - monitoring [2-191](#)
- outgoing FTP proxy servers
 - configuring [2-189](#)
 - designating primary server [2-189](#)
- outgoing HTTP proxy servers

configuring **2-219**
 designating primary server **2-219**
 monitoring **2-219**
 outgoing HTTPS proxy servers
 configuring **2-240**
 monitoring **2-241**
 outgoing proxy
 authentication **2-33**
 exclude status and criteria, displaying **2-550**
 outgoing proxy servers
 primary outgoing HTTP proxy server **2-219**
 primary outgoing HTTPS proxy server **2-242**
 overload bypass **2-67**

P

PAC file
 downloading from FTP server **2-378**
 PAC file server
 displaying information **2-537**
 number of files served **2-648**
 PAC file templates
 description **2-538**
 pacing bit rate
 HTTP and WMT **2-62**
 packet marking **2-371, 2-416**
 PAP
 password authentication **2-45**
 Password Authentication Protocol
 See PAP
 patterns
 lists described **2-415**
 rules for lists **2-413**
 searching in files **2-175**
 permanent errors
 FTP server **2-808**
 persistence for SNMP Event MIB
 configuring **2-744**
 persistent connections

and Websense **2-823**
 displaying TCP errors **2-679**
 enabling **2-219**
 purpose of **2-219**
 PGM protocol **2-321**
 pgmrategen application **2-360**
 pgmratemon application **2-362**
 ping **2-364**
 playlists
 definition **2-546**
 playtimes
 definition **2-546**
 policies
 and the Rules Template **2-414**
 Port Channel
 configuring **2-262**
 load-balancing options **2-365**
 negating interface configuration **2-341**
 port lists
 WCCP services and **2-858**
 powering off **2-727**
 preload
 configuration, displaying **2-540**
 statistics
 clearing **2-99**
 displaying **2-649**
 stopping operation **2-375**
 preload and fetch
 managing **2-366**
 preloading authenticated content **2-370**
 preloading content
 configuring Content Engine **2-366**
 forcing **2-375**
 support for ToS and DSCP **2-371**
 URL content **2-368**
 pre-positioned content
 serving **2-786**
 present working directory
 information, displaying **2-303, 2-383**

preserving configurations on device restore [2-391](#)
 preserving data on device restore [2-391](#)
 primary Content Distribution Manager [2-72](#)
 primary domain controller [2-346](#)
 primary interface
 changing to a different interface [2-376](#)
 configuring for Ethernet [2-376](#)
 primary outgoing proxy servers
 designating for FTP-over-HTTP [2-189](#)
 designating for HTTP [2-219](#)
 designating for HTTPS-over-HTTP [2-240](#)
 priority
 multicast [2-315](#)
 private keys
 HTTPS [2-232](#)
 privileged level EXEC commands
 accessing [2-166](#)
 disabling [2-143](#)
 processes
 CPU or memory, displaying [2-541](#)
 Program Manager [2-288](#)
 programs
 Cisco Streaming Engine rebroadcast [2-546](#)
 displaying [2-543](#)
 live [2-545](#)
 TV-out [2-546](#)
 WMT rebroadcast
 about [2-546](#)
 proxy
 core dump [2-170](#)
 downloading automatic configuration file [2-378](#)
 failover of HTTP [2-219](#)
 forwarding excluding items [2-381](#)
 overview [2-867](#)
 proxy autoconfiguration
 enabling [2-380](#)
 proxy failover [2-190, 2-240](#)
 proxy mode
 redirection services [2-867](#)

proxy protocols
 displaying information [2-550](#)
 excluding domain name, host name, or IP address [2-381](#)
 proxy servers
 failover [2-219](#)
 proxy-style requests, description of [2-876](#)

Q
 question mark (?) [2-199](#)
 queue
 multicast priority [2-315](#)
 QuickTime [2-398](#)

R
 RADIUS authentication
 configuring [2-43](#)
 overview [2-43](#)
 RADIUS key
 specifying on Content Engine [2-44](#)
 RADIUS server
 authentication [2-297, 2-384](#)
 excluding domains [2-385](#)
 information, displaying [2-551](#)
 parameters, configuring [2-384](#)
 statistics
 clearing [2-99](#)
 displaying [2-650](#)
 RADIUS servers
 as authentication servers [2-44](#)
 authentication settings [2-43](#)
 RADIUS URL filtering [2-828](#)
 RAID disk arrays
 repairing [2-147](#)
 Range requests [2-770](#)
 RCP services
 enabling [2-260](#)

- RealMedia
 caching, disabling [2-403](#)
 statistics, clearing [2-99](#)
- RealProxy
 access control [2-404](#)
 conventional RTSP proxy service [2-403](#)
 dividing cache with WMT [2-309](#)
 error logging [2-307](#)
 license agreement, displaying [2-553](#)
 RealMedia caching, disabling [2-403](#)
 removing license key [2-402](#)
 restoring to default configuration [2-395](#)
 transparent RTSP proxy service [2-403](#)
- RealProxy caching
 and transparent interception [2-403](#)
- RealProxy license key
 uninstalling [2-402](#)
- RealSubscriber
 configuring and enabling [2-402](#)
 license agreement, displaying [2-553](#)
 removing license key [2-402](#)
 restoring to default configuration [2-395](#)
- Real-Time Streaming Protocol
 See RTSP
- rebooting Content Engine [2-388](#)
- redirected HTTP traffic [2-838](#)
- redirection services for WCCP
 enabling [2-866](#)
- regular pattern expression
 searching [2-175](#)
- reload [2-388](#)
- reloading
 Content Engine
 automatic reload option [2-153](#)
 local good and bad sites lists [2-821](#)
- reloading Content Engine
 automatic reload option [2-153](#)
- remote host route trace [2-789](#)
- removing
- disk partitions [2-148](#)
 nodes from the ACNS network [2-108](#)
 renaming a file [2-390](#)
 replication status and statistics, displaying [2-652](#)
 resetting
 cfs [2-82](#)
 device to default condition [2-391](#)
 TCP client connection [2-168](#)
 restart, cold [2-388](#)
 restoring
 device to default condition [2-391](#)
 RealProxy or RealSubscriber to default condition [2-395](#)
 resuming content preload [2-370](#)
 retransmit count
 for RADIUS server authentication [2-44](#)
 for TACACS+ server authentication [2-45](#)
 retransmit time multiplier
 about [2-768](#)
 reverse proxy caching
 configuring on Content Engine [2-861](#)
 configuring on routers [2-861](#)
 through WCCP-enabled routers [2-860](#)
 reverse proxy services [2-859](#)
 RIP [2-467](#)
 rotated log files [2-306](#)
 router lists
 defining for WCCP [2-862](#)
 routes
 defined [2-467](#)
 displaying table [2-467, 2-523](#)
 tracing [2-789](#)
 Routing Information Protocol
 See RIP
- RTSP
 configurations and license agreements [2-553](#)
 configuring and enabling [2-396](#)
 conventional proxy service [2-403](#)
 gateway overview [2-399](#)
 Rules Template [2-414](#)

- statistics
 clearing **2-99**
 displaying **2-655**
 transparent caching using WCCP **2-403**
 URL filtering **2-822**
- RTSP gateway
 description of **2-400**
 functions of **2-400**
 purpose of **2-399**
- rule actions
 supported action and pattern combinations **2-414**
- rules
 clearing statistics **2-99**
 configuration, displaying **2-556**
 general and specific commands **2-407**
 matching against regular expressions **2-413**
 setting filters **2-407**
 statistics, displaying **2-657**
 See also Rules Template
- Rules Template
 actions
 description **2-415**
 DSCP **2-371**
 patterns
 description **2-420**
 setting ToS or DSCP **2-416**
 running configuration, displaying current profile **2-559**
 running statistics, clearing **2-100**
-
- S**
- Samba servers
 See Windows file servers
- SAN
 Fibre Channel **2-312**
- satellite connections
 and TCP **2-769**
- saving
 configuration changes **1-6**
- file system contents **2-388**
 scheduled WMT rebroadcasts
 about **2-546**
 scheduling content preloading **2-370**
 script
 executing **2-428**
 secret keys
 RADIUS **2-44, 2-385**
 TACACS+ **2-45, 2-762**
 secure FTP **2-92**
 Secure Shell
 See SSH
 Secure Sockets Layer
 See HTTPS
 send echo packets (ping) **2-364**
 Server Message Blocks
 See SMB
 server redundancy **2-298**
 server response bypass **2-169**
 services
 access lists **2-277**
 information **2-566**
 statistics **2-658**
 setup
 configuring **2-429**
 sfadmin console **2-830**
 shutting down
 Content Distribution Managers **2-727**
 Content Engines **2-727**
 Content Routers **2-727**
 Program Managers **2-727**
 WCCP **2-872**
 shutting down hardware interfaces **2-726**
 simplified hybrid content routing
 route table **2-467**
 statistics **2-595**
 slash (/) **2-71, 2-262**
 slow start **2-874**
 SmartFilter software

- description of [2-829](#)
- URL filtering [2-830](#)
- SMB [2-335](#)
- SNMP
 - agent and community access string [2-733](#)
 - and access control lists [2-732](#)
 - communications status, displaying [2-568](#)
 - host trap recipient, setting [2-741](#)
 - persistence for Event MIB, configuring [2-744](#)
 - security model group, defining [2-739](#)
 - server user, defining [2-748](#)
 - statistics, displaying [2-659](#)
 - supported MIBs [2-744](#)
 - system location string, setting [2-743](#)
 - system notify inform string, configuring [2-746](#)
 - system server contact string, setting [2-735](#)
 - traps, enabling [2-736](#)
 - Version 2 MIB view, defining [2-750](#)
- SNMP traps
 - configuring [2-737](#)
 - disabling [2-736](#)
 - enabling [2-736](#)
- socket connection
 - statistics, displaying [2-646](#)
- software clock
 - setting [2-358](#)
- speed
 - setting for Fibre Channel interface [2-752](#)
- spoofing client IP addresses [2-875](#)
- Squid transaction log format [2-800](#)
- SSH
 - configuration and status, displaying [2-573](#)
 - enabling daemon [2-753](#)
 - generating host key [2-755](#)
 - session timeout [2-171](#)
- SSL
 - See HTTPS
- SSL termination
 - of HTTPS requests [2-237](#)
- standard access lists
 - creating [2-278](#)
 - for access through SNMP agent [2-732](#)
- standard time zones
 - and offsets from UTC [B-1](#)
 - list of [B-1](#)
- standard timezones, displaying [2-461](#)
- standard web-cache service
 - configuring
 - on Content Engines [2-880](#)
 - on WCCP-enabled routers [2-881](#)
 - standby Content Distribution Manager [2-72](#)
 - standby groups, interfaces of [2-757](#)
 - standby interface
 - configuring [2-756](#)
 - displaying information [2-574](#)
 - starting and stopping
 - WMT multicast stations [2-898](#)
 - startup configuration
 - displaying [2-575](#)
 - static bypass
 - configuring [2-68](#)
 - entries, displaying [2-447](#)
 - static IP routing
 - configuring [2-270](#)
 - statistics
 - clearing [2-97, 2-98](#)
 - storage
 - extending [2-330](#)
 - pre-positioned ACNS network content [2-76](#)
 - Storage Area Network
 - See SAN
 - Storage Array
 - logical disk [2-147](#)
 - streaming media players
 - IP/TV Viewer [2-544](#)
 - QuickTime [2-544](#)
 - RealMedia players [2-250](#)
 - stream splitting [2-909](#)

subdirectories
 viewing names [2-303](#)

subnet mask
 changing [2-286](#)
 configuring [2-286](#)

summer daylight saving time
 setting [2-105](#)

superuser
 AAA accounting for [2-26](#)
 switched fabric Fibre Channel SAN [2-312](#)

synchronizing
 cdnfs [2-77](#)
 cfs [2-82](#)
 system clock [2-356](#)

sysfs
 displaying information [2-692](#)

syslog
 configuration, displaying [2-526](#)
 configuring [2-304](#)
 RealProxy priority level error mapping [2-307](#)
 sysfs location [2-306](#)

syslog hosts, configuring [2-306](#)

system clock
 synchronized by time server [2-356](#)

system disk space usage [2-146](#)

system file system
 See sysfs

system hardware
 displaying status [2-500](#)

system help [1-6](#)

system image
 installing [2-261](#)

system inventory
 displaying [2-519](#)

system logging
 configuring [2-306](#)
 to console [2-304](#)
 to disk [2-304](#)
 to remote hosts [2-306](#)

T

TAC
 viewing technical support information [2-697](#)

TACACS+
 authentication information, displaying [2-693](#)
 configuring server parameters [2-761](#)
 statistics
 clearing [2-100](#)
 displaying [2-661](#)

TACACS+ authentication
 password authentication method [2-45](#)

TACACS+ authentication and authorization
 overview of [2-44](#)

TACACS+ enable password attribute [2-45](#)

TACACS+ key
 specifying on Content Engine [2-45](#)

TACACS+ servers
 specifying as authentication servers [2-45](#)

TCP
 access lists [2-279](#)
 configuration, displaying [2-695](#)
 configuring [2-765](#)
 congestion windows [2-768](#)
 explicit congestion notification [2-768](#)
 keywords and port numbers [2-282](#)
 retransmit timer [2-768](#)
 slow start [2-769](#)
 statistics
 clearing [2-100](#)

TCP/IP services
 status, displaying [2-514](#)

TCP-over-satellite extensions
 about [2-769](#)

technical support information
 viewing [2-697](#)

Telnet services
 configuration, displaying [2-702](#)
 enabling [2-778](#)

- session timeout **2-5, 2-171**
- terminal
 setting number of lines to be displayed **2-779**
- testing
 connectivity of URLs
 for FTP-over-HTTP **2-781**
 for HTTP **2-781**
 multicast connectivity **2-319**
- test-url command
- troubleshooting
 with the HTTP CLI client **2-781**
- TFTP
 access lists **2-279**
 directories
 configuring **2-784**
 displaying **2-703**
 gateway **2-785**
 services
 configuring **2-784**
 enabling **2-260**
 TFTP gateway
 configuring **2-786**
 TFTP server
 configuration of **2-785**
 thresholds
 disk error handling **2-153**
 time, correcting **2-30**
 time and date
 setting **2-358**
 timeout intervals
 for RADIUS server authentication **2-44**
 for TACACS+ server authentication **2-45**
 timeout of a nonresponsive host **2-364**
 time zone
 offset setting **2-106**
 setting **2-105**
 time zones
 list of **B-1**
 token strings **2-800**
- ToS
 classification **2-273**
 Rules Template and **2-416**
 setting **2-268, 2-416**
 support for preload traffic **2-371**
 trace the route of remote host **2-789**
 transaction logging
 and NTLM authentication **2-809**
 archive file naming convention **2-806**
 archiving working log files **2-101**
 authentication **2-215**
 clearing log export statistics **2-100**
 compressing archive files **2-807**
 configuration and archived files, displaying **2-704**
 configuring and enabling **2-794**
 exporting **2-807**
 forcing archive or export **2-792**
 formats **2-800**
 log export statistics, displaying **2-672**
 permanent errors from external server **2-808**
 specifying facility **2-810**
 transaction logs
 archiving of **2-806**
 clearing **2-97**
 displaying configuration of **2-704**
 exporting **2-805**
 sanitizing **2-805**
 specifying entry type **2-810**
 transparent caching
 and Layer 2 redirection **2-839**
 custom web cache and **2-838**
 dynamic WCCP redirection service **2-866**
 flow redirection and **2-847**
 FTP native traffic **2-848**
 HTTPS cache and **2-853**
 IP spoofing and **2-875**
 outgoing proxy protocols and **2-381**
 reverse proxy service and **2-859**
 RTSP using WCCP **2-864**

- WCCP slow-start [2-874](#)
- WMT RTSP using WCCP [2-886](#)
- WMT using WCCP [2-904](#)
- transparent error bypass [2-168](#)
- transparent error handling [2-65, 2-169](#)
- transparently received proxy-style requests [2-381](#)
- transparent mode
 - hierarchical caching [2-214, 2-298](#)
 - redirection services [2-868](#)
 - requests [2-868](#)
 - setting with upstream proxy [2-298](#)
- traps
 - enabling [2-736](#)
- troubleshooting
 - with ping [2-364](#)
 - with Telnet client [2-777](#)
 - with the HTTP CLI client [2-781](#)
 - with the log viewing tool [2-300](#)
 - with traceroute [2-789](#)
- trusted hosts
 - command deprecated in ACNS 5.2 software and later releases [2-785](#)
- TV-out programs
 - about [2-546](#)
- TV output
 - clearing statistics [2-100](#)
 - configuring and enabling [2-813](#)
 - information, displaying [2-707](#)
 - statistics, displaying [2-674](#)
- Type of Service
 - See ToS

- U**
- UDI compliance [2-519](#)
- UDP
 - access lists [2-279](#)
 - keywords and port numbers [2-282](#)
 - statistics
- clearing [2-100](#)
- displaying [2-676](#)
- undoing global configuration commands [2-338](#)
- unicast-in and multicast-out [2-907](#)
- Universal Coordinated Time
 - See UTC [B-1](#)
- unmounting a volume [2-82](#)
- updating the calendar [2-103](#)
- URL depth parameters [2-370](#)
- URL filtering
 - clearing statistics [2-100](#)
 - configuration, displaying [2-708](#)
 - custom blocking message [2-827](#)
 - enabling, configuring, and disabling [2-822 to 2-830](#)
 - local lists [2-825](#)
 - N2H2 [2-828](#)
 - RADIUS [2-828](#)
 - reloading site lists [2-821](#)
 - statistics, displaying [2-677](#)
 - URL lists [2-826](#)
 - Websense [2-828](#)
 - with N2H2 server [2-825](#)
- URL lists and URL filtering [2-826](#)
- user authentication
 - LDAP [2-291](#)
 - local [2-41](#)
 - RADIUS [2-42](#)
 - TACACS+ [2-41](#)
- user-level EXEC command mode [1-3](#)
- users
 - administrative and authenticated, displaying [2-711](#)
 - authenticated users, clearing [2-101](#)
 - authentication [2-832](#)
 - defining for SNMP server [2-748](#)
 - removing data from disk [2-391](#)
 - user identification number and name, displaying [2-710](#)
- UTC
 - and standard time zones [B-1](#)
 - clock EXEC command [2-106](#)

offsets from [B-1](#)

V

variable bit rates [2-63](#)

version

 displaying information about [2-712](#)

WCCP

 specifying [2-878](#)

VOD [2-909](#)

W

WCCP

 accelerated [2-839](#)

 access lists [2-835](#)

 associating ports with dynamic services [2-858](#)

 clean shutdown [2-872](#)

 client IP spoofing, enabling [2-875](#)

 configuring

 user-defined services [2-866](#)

 custom web caching, enabling [2-838](#)

 defining

 home routers [2-852](#)

 port lists [2-858](#)

 router lists [2-862](#)

 displaying

 configured services [2-851](#)

 list of configured routers [2-717, 2-718](#)

 DNS packets and [2-843](#)

 dynamic redirection services, enabling [2-866](#)

 flow redirection, enabling [2-847](#)

 home router, configuring [2-852](#)

 information, displaying [2-713](#)

 IP spoofing [2-875](#)

 native FTP transparent interception [2-848](#)

 port lists [2-858](#)

 redirected HTTP traffic, accepting [2-838](#)

 redirecting traffic

 to Content Engine HTTPS server [2-853](#)

 reverse proxy services, enabling [2-859](#)

 router lists [2-862](#)

 RTSP transparent interception, configuring [2-864](#)

 setting maximum time interval before shutdown [2-872](#)

 shutting down [2-872](#)

 slow start, enabling [2-874](#)

 statistics

 displaying [2-682](#)

 transparent caching [2-403](#)

 version, setting [2-878](#)

 web cache service

 Version 2 [2-879](#)

 WMT [2-883](#)

WCCP access lists

 configuring [2-835](#)

 displaying [2-836](#)

WCCP flow protection

 disabling [2-847](#)

 displaying summary information about [2-713](#)

 enabling [2-847](#)

WCCP services

 configuring

 load balancing [2-841](#)

 port lists [2-858](#)

 router lists [2-862](#)

 user-defined services [2-866](#)

 displaying a list of [2-851](#)

 dynamic WCCP services [2-866](#)

 predefined WCCP services

 custom web cache [2-838](#)

 FTP native [2-848](#)

 HTTPS [2-853](#)

 reverse proxy [2-859](#)

 RTSP [2-864](#)

 web cache [2-879](#)

 WMT [2-883](#)

 WMT RTSP [2-886](#)

WCCP slow start
 description of **2-874**

WCCP version 1
 disabling **2-878**

WCCP version 2
 enabling **2-878**

web cache packet return **2-840**

web cache service
 with WCCP Version 2 **2-879**
 with WMT **2-883**

web proxy DNS cache size
 configuring **2-206**

Websense plug-in
 enabling **2-889**

Websense server
 failover **2-828**
 port configuration **2-892**

Websense server (plug-in)
 enabling **2-889**
 status **2-718**

Websense URL filtering **2-828**

WFQ
 IP precedence
 ToS **2-273**

wildcard character (*) **2-220, 2-381**

wildcard syntax
 supported **2-220**

Windows file servers
 using with Content Engine **2-334**

WMT
 bit rate, setting **2-62**
 broadcast **2-909**
 cache, dividing between WMT and RealProxy **2-309**
 configuration and license information, displaying **2-720**
 configuring **2-899**
 conventional proxy service **2-905**
 enabling **2-904**
 Fast Cache
 enabling **2-905**

Fast Start
 enabling **2-906**
 license key, removing **2-905**
 multicast
 logging **2-908**
 overview **2-907**
 starting and stopping stations **2-898**
 multicast-in and multicast-out **2-909**
 multicast-in and unicast-out **2-909**
 multicast logging **2-908, 2-913**
 statistics
 clearing **2-101**
 displaying **2-686**
 transparent caching using WCCP **2-904**
 unicast-in and multicast-out **2-909**
 unicast-out and multicast-in **2-909**
 URL filtering **2-822**
 WCCP and **2-883**
 web cache service **2-883**

WMT broadcast alias **2-910**

WMT caching proxy
 variable bit rates **2-63**

WMT error logging **2-135**

WMT license key
 removing **2-905**

WMT live splitting **2-910**

WMT multicast-in multicast-out
 description of **2-909**

WMT multicast-in unicast-out **2-909**

WMT multicasts, types of
 multicast-in multicast-out **2-909**
 multicast-in unicast-out **2-909**
 unicast-in multicast-out **2-909**

WMT multicast stations
 automatically restarting **2-907**
 configuring schedules for **2-907**
 starting and stopping **2-898**

WMT rebroadcasts **2-546**

WMT RTSP

transparent caching and [2-886](#)
WMT streaming and caching
 displaying WMT statistics [2-686](#)
WMT transaction logs
 formats accepted by Windows Media Services 9 [2-911](#)
 logging usernames [2-912](#)
 specifying format of [2-910](#)
WMT transparent caching [2-883](#)
WMT unicast-in multicast-out
 description of [2-909](#)
WMT unicast-in unicast-out
 description of [2-909](#)
working.log file [2-799](#)