



A

- abbreviating commands [4-3](#)
- access point security settings, matching client devices [10-9](#)
- accounting
 - with RADIUS [11-12](#)
 - with TACACS+ [11-16, 11-21](#)
- Apply button [3-4](#)
- attributes, RADIUS
 - vendor-proprietary [11-14](#)
 - vendor-specific [11-13](#)
- authentication
 - local mode with AAA [5-15](#)
 - NTP associations [5-20](#)
 - RADIUS
 - key [11-5](#)
 - login [5-8, 11-7](#)
 - TACACS+
 - defined [11-16](#)
 - key [11-18](#)
 - login [5-13, 11-19](#)
- authentication server
 - EAP [10-4, 11-3](#)
- authentication types
 - Network-EAP [10-3](#)
 - open [10-2](#)
 - shared key [10-3](#)
- authoritative time source, described [5-18](#)
- authorization
 - with RADIUS [5-11, 11-11](#)
 - with TACACS+ [5-14, 11-16, 11-20](#)

B

- Back button [3-4](#)
- banners
 - configuring
 - login [5-35](#)
 - message-of-the-day login [5-34](#)
 - default configuration [5-34](#)
 - when displayed [5-33](#)
- basic settings, checking [19-7](#)
- bridge, image [19-9](#)

C

- Cancel button [3-4](#)
- carrier busy test [6-9](#)
- CDP
 - disabling for routing device [15-4](#)
 - enabling and disabling
 - on an interface [15-4](#)
 - monitoring [15-5](#)
- Cisco TAC [19-1](#)
- CiscoWorks 2000 [16-4](#)
- CLI
 - abbreviating commands [4-3](#)
 - command modes [4-2](#)
 - editing features
 - enabling and disabling [4-6](#)
 - keystroke editing [4-6](#)
 - wrapped lines [4-7](#)
 - error messages [4-4](#)
 - filtering command output [4-8](#)
 - getting help [4-3](#)

- history
 - changing the buffer size 4-4
 - described 4-4
 - disabling 4-5
 - recalling commands 4-5
- no and default forms of commands 4-3
- clock
 - See system clock
- command-line interface
 - See CLI
- command modes 4-2
- commands
 - abbreviating 4-3
 - no and default 4-3
 - setting privilege levels 5-6
- community strings
 - configuring 16-5
 - overview 16-3
- concatenation 6-8
- configuration files
 - creating using a text editor 17-10
 - deleting a stored configuration 17-18
 - downloading
 - preparing 17-10, 17-13, 17-16
 - reasons for 17-8
 - using FTP 17-13
 - using RCP 17-16
 - using TFTP 17-11
 - guidelines for creating and using 17-9
 - invalid combinations when copying 17-5
 - system contact and location information 16-9
 - types and location 17-9
 - uploading
 - preparing 17-10, 17-13, 17-16
 - reasons for 17-8
 - using FTP 17-14
 - using RCP 17-17
 - using TFTP 17-11

- connections, secure remote 5-16
- crypto software image 5-16

D

- daylight saving time 5-29
- default commands 4-3
- default configuration
 - banners 5-34
 - DNS 5-32
 - NTP 5-20
 - password and privilege level 5-2
 - RADIUS 5-8, 11-4
 - resetting to defaults 19-8
 - SNMP 16-5
 - system message logging 18-3
 - system name and prompt 5-31
 - TACACS+ 5-13, 11-18
- directories
 - changing 17-4
 - creating and removing 17-4
 - displaying the working 17-4
- distance setting 6-3
- DNS
 - default configuration 5-32
 - displaying the configuration 5-33
 - overview 5-32
 - setting up 5-32
- domain names
 - DNS 5-32
- Domain Name System
 - See DNS
- downloading
 - configuration files
 - preparing 17-10, 17-13, 17-16
 - reasons for 17-8
 - using FTP 17-13
 - using RCP 17-16
 - using TFTP 17-11

image files

- deleting old image [17-22](#)
- preparing [17-20, 17-23, 17-27](#)
- reasons for [17-19](#)
- using FTP [17-24](#)
- using RCP [17-29](#)
- using TFTP [17-21](#)

E

EAP authentication

- overview [10-3](#)

editing features

- enabling and disabling [4-6](#)
- keystrokes used [4-6](#)
- wrapped lines [4-7](#)

EIRP, maximum [A-2 to ??](#)enable password [5-4](#)enable secret password [5-4](#)encrypted software image [5-16](#)encryption for passwords [5-4](#)

error messages

- during command entry [4-4](#)
- setting the display destination device [18-5](#)
- severity levels [18-7](#)
- system message format [18-2](#)

F

files

- copying [17-5](#)
- deleting [17-5](#)
- displaying the contents of [17-8](#)
- tar
 - creating [17-6](#)
 - displaying the contents of [17-7](#)
 - extracting [17-7](#)
 - image file format [17-19](#)

file system

- displaying available file systems [17-2](#)
- displaying file information [17-3](#)
- local file system names [17-2](#)
- network file system names [17-5](#)
- setting the default [17-3](#)

filtering

- show and more command output [4-8](#)

Flash device, number of [17-2](#)

forward-delay time

- STP [8-6](#)

frequencies [A-2](#)

FTP

- accessing MIB files [C-2](#)
- configuration files
 - downloading [17-13](#)
 - overview [17-12](#)
 - preparing the server [17-13](#)
 - uploading [17-14](#)
- image files
 - deleting old image [17-26](#)
 - downloading [17-24](#)
 - preparing the server [17-23](#)
 - uploading [17-26](#)

Gget-bulk-request operation [16-3](#)get-next-request operation [16-3, 16-4](#)get-request operation [16-3, 16-4](#)get-response operation [16-3](#)global configuration mode [4-2](#)

Hhelp, for the command line [4-3](#)

history

- changing the buffer size [4-4](#)

described 4-4
 disabling 4-5
 recalling commands 4-5
 history table, level and number of syslog messages 18-8
 Home button 3-3

I
 interface configuration mode 4-2
 IP address, finding and setting 2-9
 IPSU 2-8
 ISO designators for protocols B-1

K

key features 1-2

L

LEAP authentication
 setting on client and access point 10-9
 login authentication
 with RADIUS 5-8, 11-7
 with TACACS+ 5-13, 11-19
 login banners 5-33
 log messages
 See system message logging

M

MAC 2-10, 2-11
 management options
 CLI 4-1
 Message Integrity Check 9-1
 messages
 to users through banners 5-33
 MIBs
 accessing files with FTP C-2

location of files C-2
 overview 16-2
 SNMP interaction with 16-4

MIC 9-1
 Mode button 17-33, 19-9
 monitoring
 CDP 15-5

N

Network-EAP 10-3
 Network Time Protocol
 See NTP
 no commands 4-3
 NTP
 associations
 authenticating 5-20
 defined 5-18
 enabling broadcast messages 5-22
 peer 5-21
 server 5-21
 default configuration 5-20
 displaying the configuration 5-26
 overview 5-18
 restricting access
 creating an access group 5-24
 disabling NTP services per interface 5-25
 source IP address, configuring 5-25
 stratum 5-18
 synchronizing devices 5-21
 time
 services 5-18
 synchronizing 5-18

O

OK button 3-4

P

packet concatenation [6-8](#)

password reset [19-8](#)

passwords

- default configuration [5-2](#)
- encrypting [5-4](#)
- overview [5-2](#)
- setting
 - enable [5-3](#)
 - enable secret [5-4](#)
 - with usernames [5-5](#)

per-VLAN Spanning Tree (PVST) [8-2](#)

power level, maximum [A-2](#)

preferential treatment of traffic

- See QoS

preventing unauthorized access [5-2](#)

privileged EXEC mode [4-2](#)

privilege levels

- exiting [5-7](#)
- logging into [5-7](#)
- overview [5-2, 5-6](#)
- setting a command with [5-6](#)

Q

QoS

- configuration guidelines [13-3](#)
- overview [13-2](#)

quality of service

- See QoS

R

radio

- distance setting [6-3](#)

RADIUS

- attributes
 - vendor-proprietary [11-14](#)

- vendor-specific [11-13](#)

configuring

- accounting [11-12](#)
- authentication [5-8, 11-7](#)
- authorization [5-11, 11-11](#)
- communication, global [11-5, 11-13](#)
- communication, per-server [11-4, 11-5](#)
- multiple UDP ports [11-5](#)

default configuration [5-8, 11-4](#)

defining AAA server groups [5-9, 11-9](#)

displaying the configuration [5-12, 11-15](#)

identifying the server [11-4](#)

limiting the services to the user [5-11, 11-11](#)

method list, defined [11-4](#)

operation of [11-3](#)

overview [11-2](#)

suggested network environments [11-2](#)

tracking services accessed by user [11-12](#)

rate limit, logging [18-9](#)

RCP

- configuration files
 - downloading [17-16](#)
 - overview [17-15](#)
 - preparing the server [17-16](#)
 - uploading [17-17](#)
- image files
 - deleting old image [17-30](#)
 - downloading [17-29](#)
 - preparing the server [17-27](#)
 - uploading [17-31](#)

regulatory

- domains [A-2](#)

reloading bridge image [19-9](#)

Remote Authentication Dial-In User Service

- See RADIUS

Remote Copy Protocol

- See RCP

restricting access

- NTP services [5-23](#)

- overview [5-2](#)
 - passwords and privilege levels [5-2](#)
 - RADIUS [5-7, 11-1](#)
 - TACACS+ [5-12](#)
 - RFC
 - 1157, SNMPv1 [16-2](#)
 - 1305, NTP [5-18](#)
 - 1901, SNMPv2C [16-2](#)
 - 1902 to 1907, SNMPv2 [16-2](#)
-
- S**
- secure remote connections [5-16](#)
 - Secure Shell
 - See SSH
 - security features
 - synchronizing [10-9](#)
 - sequence numbers in log messages [18-6](#)
 - set-request operation [16-4](#)
 - severity levels, defining in system messages [18-7](#)
 - show cdp traffic command [15-5](#)
 - Simple Network Management Protocol
 - See SNMP
 - SNMP
 - accessing MIB variables with [16-4](#)
 - agent
 - described [16-3](#)
 - disabling [16-5](#)
 - community strings
 - configuring [16-5](#)
 - overview [16-3](#)
 - configuration examples [16-9](#)
 - default configuration [16-5](#)
 - limiting system log messages to NMS [18-8](#)
 - manager functions [16-3](#)
 - MIBs
 - location of [C-2](#)
 - overview [16-2, 16-4](#)
 - snmp-server view [16-9](#)
 - status, displaying [16-10](#)
 - system contact and location [16-9](#)
 - trap manager, configuring [16-8](#)
 - traps
 - described [16-3](#)
 - enabling [16-7](#)
 - overview [16-2, 16-4](#)
 - types of [16-7](#)
 - versions supported [16-2](#)
 - software images
 - location in Flash [17-19](#)
 - tar file format, described [17-19](#)
 - SSH [4-9](#)
 - configuring [5-17](#)
 - crypto software image [5-16](#)
 - described [5-16](#)
 - displaying settings [5-17](#)
 - SSH Communications Security, Ltd. [4-9](#)
 - SSID
 - multiple SSIDs [7-1](#)
 - SSID, troubleshooting [19-7](#)
 - static WEP
 - with open authentication, setting on client and access point [10-9](#)
 - with shared key authentication, setting on client and access point [10-9](#)
 - statistics
 - CDP [15-5](#)
 - SNMP input and output [16-10](#)
 - STP
 - BPDU message exchange [8-3](#)
 - designated port, defined [8-3](#)
 - designated switch, defined [8-3](#)
 - displaying status [8-14](#)
 - inferior BPDU [8-3](#)
 - interface states
 - blocking [8-6](#)
 - disabled [8-7](#)
 - forwarding [8-6, 8-7](#)

- learning [8-7](#)
- listening [8-7](#)
- overview [8-5](#)
- overview [8-2](#)
- root port, defined [8-3](#)
- superior BPDU [8-3](#)
- timers, described [8-4](#)
- stratum, NTP [5-18](#)
- summer time [5-29](#)
- syslog
 - See system message logging
- system clock
 - configuring
 - daylight saving time [5-29](#)
 - manually [5-27](#)
 - summer time [5-29](#)
 - time zones [5-28](#)
 - displaying the time and date [5-27](#)
 - overview [5-17](#)
 - See also NTP
- system message logging
 - default configuration [18-3](#)
 - defining error message severity levels [18-7](#)
 - disabling [18-4](#)
 - displaying the configuration [18-12](#)
 - enabling [18-4](#)
 - facility keywords, described [18-11](#)
 - level keywords, described [18-8](#)
 - limiting messages [18-8](#)
 - message format [18-2](#)
 - overview [18-2](#)
 - rate limit [18-9](#)
 - sequence numbers, enabling and disabling [18-6](#)
 - setting the display destination device [18-5](#)
 - timestamps, enabling and disabling [18-6](#)
 - UNIX syslog servers
 - configuring the daemon [18-10](#)
 - configuring the logging facility [18-10](#)
 - facilities supported [18-11](#)

- system name
 - default configuration [5-31](#)
 - manual configuration [5-31](#)
 - See also DNS
- system prompt
 - default setting [5-31](#)

T

- TAC [19-1](#)
- TACACS+
 - accounting, defined [11-16](#)
 - authentication, defined [11-16](#)
 - authorization, defined [11-16](#)
 - configuring
 - accounting [11-21](#)
 - authentication key [11-18](#)
 - authorization [5-14, 11-20](#)
 - login authentication [5-13, 11-19](#)
 - default configuration [5-13, 11-18](#)
 - displaying the configuration [5-15, 11-22](#)
 - identifying the server [11-18](#)
 - limiting the services to the user [5-14, 11-20](#)
 - operation of [11-17](#)
 - overview [11-16](#)
 - tracking services accessed by user [11-21](#)
- tar files
 - creating [17-6](#)
 - displaying the contents of [17-7](#)
 - extracting [17-7](#)
 - image file format [17-19](#)
- Telnet [2-12](#)
- Temporal Key Integrity Protocol [9-1](#)
- Terminal Access Controller Access Control System Plus
 - See TACACS+
- TFTP
 - configuration files
 - downloading [17-11](#)
 - preparing the server [17-10](#)

- uploading [17-11](#)
- image files
 - deleting [17-22](#)
 - downloading [17-21](#)
 - preparing the server [17-20](#)
 - uploading [17-22](#)
- TFTP server [17-33, 19-9](#)
- time
 - See NTP and system clock
- timestamps in log messages [18-6](#)
- time zones [5-28](#)
- TKIP [9-1](#)
- traps
 - configuring managers [16-7](#)
 - defined [16-3](#)
 - enabling [16-7](#)
 - notification types [16-7](#)
 - overview [16-2, 16-4](#)
- troubleshooting [19-1](#)
 - with CiscoWorks [16-4](#)
 - with system message logging [18-2](#)
- reasons for [17-19](#)
- using FTP [17-26](#)
- using RCP [17-31](#)
- using TFTP [17-22](#)
- user EXEC mode [4-2](#)
- username-based authentication [5-5](#)

W

- Web-based interface
 - common buttons [3-3](#)
 - compatible browsers [3-1](#)
- web site
 - Cisco Software Center [2-9](#)
- WEP [9-1](#)
 - with EAP [10-3](#)

U

- UNIX syslog servers
 - daemon configuration [18-10](#)
 - facilities supported [18-11](#)
 - message logging configuration [18-10](#)
- upgrading software images
 - See downloading
- uploading
 - configuration files
 - preparing [17-10, 17-13, 17-16](#)
 - reasons for [17-8](#)
 - using FTP [17-14](#)
 - using RCP [17-17](#)
 - using TFTP [17-11](#)
 - image files
 - preparing [17-20, 17-23, 17-27](#)