INDEX

A

accessing
    geographical HA gateways using the GUI 12-22
active alarms and event history
    displaying 9-1
active alarms and event history 9-2
active sessions
    displaying 6-20
adding
    upstream OSS hosts 9-11
    views to the Navigation Tree 7-35
adding and removing, properties 3-13
alarm and event properties
    displaying 9-6
alarm events
    displaying 9-8
alarm or event details
    displaying 9-8
alarms
    active alarms and event history 9-2
    and event filter dialog box other pane 9-5
    and events A-2
    bulk statistics 7-29
    by device properties 8-5
    displaying by device from the alarms window 9-11
    sent to e-mail addresses, configuring 9-13
    sent to OSS hosts, configuring 9-13
alarms and events, filtering 9-4
alarms and events, managing 9-3
alarms and events in geographical HA gateways, managing 12-23
alarms by device
    displaying 8-6
algorithms
    creating 7-45
algorithms, editor 7-46
and editing device polling groups
    creating 8-22
and removing properties from property views
    adding 3-13
a new polling group
    creating 8-23
application audit logs, displaying 11-7
architecture
    local HA 12-13
    Prime Performance Manager 1-4
archived, messages 11-14
archived messages, displaying 11-13
assigning devices, polling group 8-24
attributes
    notification 9-17
authentication
    local 6-9
    PAM, TACACS+, and LDAP 6-7
    Solaris and Linux 6-9
auto expand, report summary tables 3-10

B

backup directory
    changing 14-3
backup directory, changing 14-3
backup logs, displaying 11-5
bulk statistics
    alarms 7-29

bulk statistics device configurations, removing 7-28
bulk statistics reports, setting up 7-24

C

capability polling 7-18
changing
    report settings 7-14
changing, poller settings 3-13
chart legends, editing color 3-8
CISCO-EPM-2 trap, notification attributes 9-19
CISCO-PRIME trap
    notivation attributes 9-16
CISCO-PRIME trap, notification attributes 9-16
CLI command log, displaying 11-5
client access, limiting access to servers 2-9
color
    setting chart legend colors 3-8
command line interface A-3
command reference B-1
commands
    changing system properties 11-8
    hacommands B-36
    ppm B-5
    ppm addunitconf B-6
    ppm adduser B-7
    ppm backup B-8
    ppm backupdir B-10
    ppm badloginalarm B-12
    ppm badlogindisable B-12, B-13
    ppm certtool B-13
    ppm changes B-14
    ppm checksystem B-14
    ppm clitimeout B-14
    ppm cmdlog B-15
    ppm console B-16
    ppm consolelogsize B-16
    ppm countnodes B-16
    ppm datadir B-17
    ppm delete B-18
    ppm deletesnmpcomm B-19
    ppm deleteunitconf B-19
    ppm deluser B-20
    ppm disablepass B-20
    ppm disableuser B-21
    ppm discover B-22
    ppm diskcheck B-22
    ppm diskmonitor B-22
    ppm enablepwdage B-24
    ppm enableuser B-21, B-24
    ppm eventautolog B-24
    ppm eventconfig B-25
    ppm eventlimitsconfig B-25
    ppm eventsnmpserversconfig B-26
    ppm eventtool B-26
    ppm evilstop B-28
    ppm export B-28
    ppm exportcustnames B-28
    ppm exportusers B-28
    ppm gatewayname B-29
    ppm habackupflag B-35
    ppm happmtimeout B-36
    ppm help B-29
    ppm ifnameformat B-30
    ppm inactiveuserdays B-31
    ppm installlog B-32
    ppm inventoryimport B-32
    ppm iosreport B-32
    ppm ipaccess B-33
    ppm ipslaftpfilesize B-33
    ppm jspport B-34
    ppm keytool B-34
    ppm listusers B-35
    ppm logger B-37
    ppm logsize B-37
    ppm logtimemode B-38
    ppm maxasciirows B-39
    ppm maxhtmlrows B-39

ppm maxpagesize B-40
ppm maxrepqueries B-40
ppm mldebug B-40
ppm modifyunitconf B-42
ppm motd B-42
ppm msglog B-43
ppm msglogage B-43
ppm msglogdir B-44
ppm netlog B-44
ppm netlogger B-45
ppm newlevel B-45
ppm optimizecapabilitypoll B-45
ppm osinfo B-46
ppm passwordage B-46
ppm patchlog B-47
ppm ping B-47
ppm poll B-47
ppm premotd B-48
ppm primecentralintegration B-48
ppm primeha B-49
ppm print B-50
ppm printreportstatus B-50
ppm props B-50
ppm purgedb B-51
ppm pwdchangeinterval B-51
ppm pwdchangelimit B-52
ppm pwdchangerestrict B-52
ppm readme B-53
ppm reboot B-53
ppm redistributenodes B-53
ppm redundancygroups B-54
ppm reloadbulkstats B-55
ppm repdir B-56
ppm rephelp B-56
ppm restart B-56
ppm restore B-57
ppm restoreprops B-58
ppm rootvars B-58
ppm sechelp B-58
ppm seclog B-59
ppm servername B-59
ppm setpath B-60
ppm setpctrapdestination B-61
ppm showcreds B-61
ppm showsnmpcomm B-61
ppm showunitconf B-62
ppm singlesess B-62
ppm smtpport B-75
ppm snmpcomm B-63
ppm snmpconf B-63
ppm snmpget B-63
ppm snmphelp B-66
ppm snmpmaxrows B-66
ppm snmpnext B-66
ppm snmpwalk B-69
ppm ssl B-71
ppm sslstatus B-72
ppm starbuild B-72
ppm start B-73
ppm statreps B-73
ppm status B-75
ppm syncunits B-76
ppm tac B-77
ppm topxxsize B-77
ppm traceroute B-77
ppm uninstall B-78
ppm unknownage B-78
ppm updateuser B-78
ppm useraccess B-79
ppm userpass B-79
ppm version B-80
ppm who B-80
ppm xmlpoll B-81
configuring
gateway and unit communication 13-3
gateways and units for firewalls 13-2
unit and device communication 13-6
web client and gateway communication 13-3

connected clients and system status, displaying 11-2
console log, displaying 11-5
console log archived messages, displaying 11-7
creating
  custom device star graphs 7-12
  custom report views 7-34
  device bulk statistics configuration 7-27
  device polling groups 8-22
  device-to-unit maps 12-6
  report groups 7-42
  report policies 7-20
  star graphs 7-12
  unit protection groups 12-8
creating, a new polling group 8-23
creating, thresholds 10-1
credentials for Cisco Carrier Packet Transport devices
  adding 5-10
cross launch, enabling from Prime Network 5-4
CSV
  exporting 7-5
custom device star graphs, creating 7-12
customizing
  date and time 7-7
  report display 7-9
custom report view
  creating 7-34
custom report views, creating 7-34

D

daily alarm and event archives, displaying 9-9
dashboards
  editing the display 7-32
  enabling and disabling 7-31
  managing 7-31
  menu bar 7-33
dashboards, managing 7-31
data
  accessing, from the web 10-1
  collection 8-20
data center
  device support 5-12
  supported devices and technologies 7-22
deleting
  device-to-unit maps 12-7
  SNMP credentials 5-6
  Telnet/SSH credentials 5-9
deleting, thresholds 10-9
device
  average poll responses 8-7
  changing history limit 3-8
  contacts and locations 8-9
  details 8-18
  details in prime style 8-10
  details when cursor is placed over a link 3-8
  discovery A-2
  discovery overview 1-6
  discovery requirements 5-1
  distributions 8-5
  management actions A-2
  name settings, changing 3-8
  properties 8-2
  show domain name 3-8
  up time 8-8
  vendor information 8-10
device bulk statistics configuration
  creating 7-27
device contacts and locations, displaying 8-9
device credentials, managing 5-5
device discovery
  from Prime Performance Manager 5-10
device name and web port, editing 8-13
device polling groups, creating 8-22
device poll responses, displaying 8-7, 8-8
devices
  assigning to polling groups 8-24
  assigningto report policies 7-21
  discovering 5-4

importing from Prime Network 5-2
devices in geographical HA gateways, managing 12-23
devices in the network-level view, managing 8-11
device snmp ip addresses, editing 8-16
device SNMP time out alarms, displaying 8-7
device software versions, displaying 8-9
devices to units, relocating 8-16
device-to-unit assignment
changing 12-8
device-to-unit assignments, changing 12-8
device-to-unit assignments, managing 12-5
device-to-unit assignments, viewing 12-6
device-to-unit maps
creating 12-6
device-to-unit maps, creating 12-6
device-to-unit maps, deleting 12-7
device-to-unit maps, editing 12-7
device type distributions, displaying 8-4
device up time, displaying 8-8
disabling 7-16
passwords 6-17
users 6-17
disaster recovery, manual 12-26
discovering
network devices from Prime Network 5-2
discovery
from Prime Performance Manager 5-10
XEN and KVM TLS requirements 5-14
discovery, overview 5-1
discovery requirements
hypervisor 5-14
displaying
active alarms and event history 9-1
alarm and event properties 9-6
alarm events 9-8
alarm or event details 9-8
alarms by device 8-5
alarms by device from the alarms window 9-11
alarms by device type 8-6
alarms by device type from the alarms window 9-11
an alarm summary 9-4
application audit logs 11-7
archived messages 11-13
backup log 11-5
cli command log 11-5
connected clients and system status 11-2
console log 11-5
console log archived messages 11-7
daily alarm and event archives 9-9
dashboards status 7-31
data center reports 7-22
detailed gateway and unit information and performance 12-3
device contacts and locations 8-9
device details for an alarm 9-9
device details in cisco prime format 8-10
device icmp ping responses and availability 8-8
device poll responses 8-7
device snmp TIME out alarms 8-7
device software 8-9
device-to-unit assignments 12-6
device type distributions 8-4
device up time 8-8
device vendors 8-10
event automation log 11-6
gateway and unit information 12-1
gateway and unit software versions 2-8
gateway and unit status 2-6
geographical HA status 12-19
group reports 7-48
individual device information 8-17
information and error messages 11-11
install log 11-4
network and device reports 7-6
network-level device information 8-1
patch log 11-4
poller settings 11-9
Prime Performance Manager information 3-14

Prime Performance Manager version 2-8
report definitions 7-22
reports 7-1
reports settings 11-10
security log 11-6
system check log 11-5
system logs 11-4
system messages 11-11
system properties and settings 11-8
system security log 6-21
system settings 11-8
threshold parameters from the alarms window 10-6
user actions 11-12
web configuration properties 11-9
web settings 11-9
display settings, changing 3-9
duplicating, thresholds 10-7

E

editing
dashboard display 7-32
device credentials 8-13
device name, web port, and time zone 8-13
device SNMP IP addresses 8-16
device-to-unit maps 12-7
polling group assigned to a device 8-15
polling group parameters 8-23
report policy assigned to a device 8-15
report policy parameters 7-20
snmp credentials 5-6
thresholds from the alarms window 10-6
thresholds from the threshold editor 10-5
upstream OSS hosts 9-12
views 7-40
editing polling group parameters, polling 8-23
enabling
Prime Network cross-launch 5-4
reports and report intervals 7-18
secure user access 6-11
SSL on a gateway or collocated gateway and unit 6-3
SSL on gateways and units 6-2
SSL on remote units 6-4
user accounts and passwords using the CLI 6-18
enabling and disabling
reports 7-16
thresholds 10-8
error messages, information 11-11
event automation log, displaying 11-6

F

failovers and switchovers
local HA 12-14
features
security 1-6
filtering
alarms and events 9-4
report information 7-13
floating IP address
changing 12-15
floating IP address, changing 12-15
forwarding
traps to hosts 9-14

G

gateway
HA operations notes 12-13
high availability architecture 12-13
gateway and unit, properties 12-2
gateway and unit connectivity, managing 12-5
gateway and unit information, displaying 12-1
gateway and unit status, displaying 2-6
gateway high availability, managing 12-11
gateways, restarting 2-4
gateways, starting 2-2

gateways, stopping 2-3
gateways and units
properties 12-3
starting using the CLI 2-1
gateways and units, discovering 5-2
gateways and units, version 2-8
gateway-to-unit connectivity 13-1
geographical and local high availability, managing 12-25
geographical HA
configuring 12-21
geographical HA gateway data
backing up and restoring 12-22
geographical HA gateways, freezing and unfreezing 12-22
geographical HA gateways, synchronizing 12-21
geographical high availability, managing 12-18
graph, time span bar 7-12
graph bar and data display options 7-11
groups
protection 12-10
provided 7-43
GUI, optimize for slow connections 3-9
GUI polling refresh setting, changing 3-13

H

HA, failovers and switchovers 12-14
hypervisor, discovery requirements 5-14

I

individual device information, displaying 8-17
individual devices, managing 8-21
information
error messages 11-11
from the Help Menu 3-5
information and error messages, displaying 11-11
install log, displaying 11-4
integrating
Prime Performance Manager with Prime Central 4-1
IPv6
Prime Performance Manager support A-1
troubleshooting A-3

J

JVM, checking versions 6-8

L

last login date and time, changing 3-9
launching,web interface 3-1
LDAP 6-7
local HA
architecture 12-13
failovers and switchovers 12-14
operations notes 12-13
local high availability, managing 12-12
log files, managing 11-7
logging in
as the Root user 2-1
login window 3-2
log messages, RHCS 12-16

M

managing
alarms and events 9-3
alarms and events in geographical HA gateways 12-23
dashboards 7-31
device credentials 5-5
devices in geographical HA gateways 12-23
devices in the network-level view 8-11
device-to-unit assignments 12-5
gateway and unit connectivity 12-5
gateway high availability 12-11
geographical and local high availability 12-25

geographical high availability 12-18
individual devices 8-21
local high availability 12-12
log files 11-7
report groups 7-47
reports 7-1
reports, views, and groups in geographical HA gateways 12-23
thresholds 10-5
thresholds and upstream alarm hosts in geographical HA Gateways 12-24
user access and security 6-1
users and user security 6-12
users in geographical HA gateways 12-23
manual, disaster recovery 12-26
master report settings, changing 7-14
menus, navigation 3-4
merging
view charts 7-40
message of the day, configuring 6-19
messages
display, changing 11-7
messages of the day 6-19
creating 6-19
modifying
custom report views 7-37
password policy 6-9

N

navigation
menus 3-4
network alarms by device properties 8-5
network-level device information 8-1
network-level device information, displaying 8-1
network-level device properties, displaying 8-2
new bulk statistics schemas or counters
adding 7-28
new polling group
creating 8-23
new report policy
creating 7-21
new users
adding 6-12
Nexus switches in VDC mode, discovering 5-13
notes to alarms or events
adding 9-7
notification, attributes 9-17
notification attributes
CISCO-EPM-2 trap 9-19
number of backup days, setting 14-3

O

operations notes
local HA 12-13
options, data 7-11
options, graph bar 7-11

P

page size 7-5
parameters
polling group 8-23
passwords, changing user 6-15
patch log, displaying 11-4
Pluggable Authentication Modules (PAM) 6-7
poller
settings, changing 3-13
poller settings, displaying 11-9
polling
creating a new polling group 8-23
editing polling group parameters 8-23
polling group parameters 8-23
polling, capability 7-18
polling group
assigning devices to 8-24

parameters 8-23
polling group assigned to a device, editing 8-15
polling group parameters, editing 8-23
polling group parameters, polling 8-23
ports
used by Prime Performance Manager 13-3
post integration,commands and procedures 4-6
primary and secondary geographical HA gateways, switching 12-20
primary gateway, running status 12-19
Prime Central
integrating Prime Performance Manager 4-1
Prime Central integration
considerations and next steps 4-5
post integration commands and procedures 4-6
troubleshooting 4-4
Prime Network, importing devices 5-2
Prime Network cross-launch, enabling 5-4
Prime Performance Manager
about 3-xv
architecture 1-4
backing up data files 14-2
back up and restore process 14-1
client and server communication
VPN 13-2
commands B-1
communication 13-1
dashboards overview 1-3
database 1-5
device discovery 5-4
discovering devices 5-10
displaying information about 3-14
features and functions 1-1
integrating with Prime Central 4-1
IPv6 A-1
login window 3-2
ports 13-3
ports 13-3
reports overview 1-3
restarting gateways and units 2-4
server 5-1
SNMP traps 9-16
starting gateways and units 2-1
stopping gateways and units 2-3
supported browsers 3-1
user levels 6-10
user levels 6-10
web interface
archived messages 11-13
logs
command 11-5
console 11-5
event automation 11-6
security 11-6
Prime Performance Manager, architecture 1-4
Prime Performance Manager bulk statistics schema file, updating 7-28
Prime Performance Manager client, limiting access 2-9
Prime Performance Manager data files
backing up 14-2
Prime Performance Manager data files, restoring 14-3
Prime Performance Manager server, starting 5-1
Prime Performance Manager Window 3-4
Prime Performance Manager with Prime Central, integrating 4-1
properties
tables, sorting 3-14
properties, adding and removing 3-13
properties, detailed gateway and unit 12-3
properties, gateway
and unit 12-2
protection, groups 12-10
provided, groups 7-43

R

redundant units, in active status 12-10
reference, commands B-1
relocating

devices to units 8-16
removing
bulk statistics device configurations 7-28
report chart, adding to clipboard tool 7-9
report graphs
add to star charts tool 7-10
export to image tool 7-10
report group
creating 7-44
report groups, creating 7-42
report groups, managing 7-47
report policies
assigning devices to 7-21
creating 7-20
creating new 7-21
editing 7-20
report policies, creating 7-20
report policy assigned to a device, editing 8-15
reports
changing settings 7-14
creating policies 7-20
custom views 7-34
data options 7-17
definitions, displaying 7-22
displaying 7-1
enabling and disabling 7-16
filtering information 7-13
historical statistics settings 7-15
managing 7-1
menu bar 7-3
settings, changing 3-10
viewing 7-6
reports, searching 7-3
reports, views, and groups in geographical HA gateways, managing 12-23
reports, window 3-4
reports and report intervals, enabling 7-18
reports graphs
show chart in full screen tool 7-9
toggle area charts tool 7-10
reports in 3GPP XML format, exporting 7-19
reports settings, displaying 11-10
reports table view
hide series tool 7-9
restarting
gateways 2-4
units 2-5
restoring
Prime Performance Manager data files 14-3
RHCS, freezing and unfreezing 12-14
RHCS, log messages 12-16
RHCS cluster server, switching 12-15
RHCS Conga web interface
configuring 12-17
RHCS conga web interface, configuring 12-17
RMI
how it works 13-2
RMI components 13-2
root user
becoming 5-1
login 2-1
Root user, logging in 2-1
RSA, generation 6-3

S

searching
reports 7-3
secondary HA gateway, running status 12-19
secure user access
disabling 6-12
secure user access, enabling 6-11
security
client access, limiting 2-9
days before forcing password change 6-16
editing user security 6-16
logs, system 6-21
message of the day 6-19

number of active client sessions 6-16
overview 1-6
passwords, creating 6-9
passwords, disabling manually 6-17
passwords, re-enabling 6-18
user-based access
disabling 6-12
implementing 6-7
user levels 6-10
basic user 6-10
network operator 6-10
system administrator 6-11
users
changing 6-18
listing current 6-20
security log, displaying 11-6
server
Prime Performance Manager 5-1
server properties
displaying 11-9
setting
number of backup days 14-3
settings
historical reports 7-15
setting up
bulk statistics reports 7-24
slow connections, optimize 3-9
SNMP and Telnet/SSH credentials
adding A-1
SNMP credentials
adding 5-5
deleting 5-6
editing 5-6
SNMP credentials, deleting 5-6
software versions 8-9
Sorting, tables 3-14
SSH
adding credentials 5-7
SSL
configuring on geographical HA gateways and remote units 12-24
disabling 6-6
enabling 6-2
enabling on gateway or collocated gateway and unit 6-3
enabling on remote units 6-4
key and certificate, displaying 6-6
status, displaying 6-5
status and printing certificates 6-5
viewing and exporting certificates 6-5
SSL certificates, exporting 6-5
SSL certificates, printing 6-5
SSL on a gateway or collocated gateway and unit, enabling 6-3
SSL on gateways and units, enabling 6-2
SSL on remote units, enabling 6-4
star graphs, creating 7-12
starting
gateways 2-2
Prime Performance Manager server 5-1
units 2-3
status, gateway and unit 2-6
stopping
gateways 2-3
units 2-4
strict synchronization 5-3
switching
primary and secondary geographical HA gateways 12-20
RHCS cluster server 12-15
synchronizing, geographical HA gateways 12-21
system
menu logs and messages 11-2
system configuration settings, changing 3-11
system logs, displaying 11-4
system messages, displaying 11-11
system properties
statuses, logs, and messages overview 11-1
systemproperties

viewing 11-8
system properties and settings, displaying 11-8
system settings, displaying 11-8

T

tables, sorting 3-14
TACACS+ 6-7
Telnet
adding credentials 5-7
Telnet/SSH credentials, deleting 5-9
Telnet and SSH, credential notes 5-9
Telnet and SSH credentials
adding 5-7
threshold dialog box
adding 10-2
threshold events, viewing 10-9
threshold parameters from the alarms window, displaying 10-6
thresholds
creating 10-1
deleting 10-9
editing 10-5, 10-7
enabling and disabling 10-8
managing 10-5
predefined C-1
viewing from Alarms window 10-6
thresholds, deleting 10-9
thresholds, duplicating 10-7
thresholds, managing 10-5
thresholds, predefined C-1
thresholds and upstream alarm hosts in geographical HA Gateways, managing 12-24
thresholds from the alarms window, editing 10-6
thresholds from the threshold editor, editing 10-5
threshold tools
adding 10-1
time span bar, graph 7-12
trap forwarding A-3
traps to hosts, forwarding 9-14
tuning
event and alarm parameters 9-11, 9-15

U

unit protection groups
creating 12-8
units
configuration A-2
protection group failover scenarios 12-11
redundancy groups and geographical HA 12-25
units, restarting 2-5
units, starting 2-3
units, stopping 2-4
updating
Prime Performance Manager bulk statistics schema file 7-28
upstream alarm hosts
configuring 9-11
upstream OSS hosts, adding 9-11
upstream OSS hosts, editing 9-12
user
access,disabling 6-12
access, enabling 6-11
actions 11-12
authentication 6-7
passwords, configuring 6-9
security levels 6-10
user, editing information 6-13
user access and security, managing 6-1
user accounts and passwords using the CLI, enabling 6-18
user actions, displaying 11-12
user passwords
changing 6-15
configuring 6-9
user preferences
changing 3-7
user preferences, changing 3-7

user reports, editing 6-14
users
  changing passwords 6-15
  changing preferences 3-7
  editing information 6-13
  managing through GUI 6-12
  setting up access and security 6-1
  setting up and managing 6-1
users, list currently defined 6-20
users and passwords
  manually disable 6-17
users and user security, managing 6-12
user security settings, editing 6-16
users in geographical HA gateways, managing 12-23

V

view
  editor 7-41
  graph 7-3
  list 7-3
  tab 7-39
  table 7-3
  tree 7-3
view charts, merging 7-40
viewing
  device-to-unit assignments 12-6
  reports 7-6
  system properties 11-8
  threshold events 10-9
views
  copying and pasting 7-36
  creating custom 7-34
  managing 7-40
  modifying custom 7-37
views to the Navigation Tree, adding 7-35

W

web
  checking browser settings 3-7
  configuration properties, displaying 11-9
  settings 11-10
web browser
  checking 3-7
web browsers,supported 3-1
web interface, launching 3-1
web settings, displaying 11-9

X

XEN and KVM TLS, discovery requirements 5-14