



INDEX

A

Access Control Server (ACS)

- activating NDG feature [8-19](#)
 - adding devices as AAA clients without NDGs [8-17](#)
 - adding managed devices [8-17](#)
 - adding managed devices and configuring NDGs [8-27](#)
 - adding multihomed devices [8-31](#)
 - adding users [8-15](#)
 - assigning roles to user groups [8-25](#)
 - assigning roles to user groups with NDGs [8-27](#)
 - assigning roles to user groups without NDGs [8-26](#)
 - associating user roles and permissions [8-11](#)
 - authentication fails [8-29](#)
 - changes not appearing in Security Manager [8-30](#)
 - configuring CiscoWorks AAA mode [8-23](#)
 - configuring network device groups [8-18](#)
 - configuring SMTP and e-mail for notifications [8-24](#)
 - creating administration control user [8-20](#)
 - creating local users in CiscoWorks [8-21](#)
 - creating network device groups [8-19](#)
 - customizing user roles [8-10](#)
 - default roles [8-10](#)
 - defining system identity user [8-15](#)
 - devices not appearing in Security Manager [8-30](#)
 - integrating with Security Manager [8-12](#)
 - integration checklist [8-14](#)
 - integration requirements [8-13](#)
 - performing integration [8-15](#)
 - performing integration in CiscoWorks [8-21](#)
 - read-only access for system administrators [8-29](#)
 - registering Security Manager [8-24](#)
 - reinstalling server applications [5-3](#)
 - restarting Daemon Manager [8-25](#)
 - restoring access [8-31](#)
 - troubleshooting [8-28](#)
 - understanding user permissions [8-3](#)
 - user permissions [8-4](#)
 - using multiple versions of Security Manager [8-28](#)
 - working after ACS becomes unreachable [8-30](#)
- #### accounts, user
- managing [8-1](#)
 - required [5-1](#)
- #### antivirus utilities, requirement to disable [4-3](#)
- #### applications
- downgrading server [5-19](#)
 - installing and configuring client [6-1](#)
 - installing and upgrading server [5-1](#)
 - logging into [6-10](#)
 - required changes after upgrading server [5-15](#)
 - uninstalling server [5-19](#)
 - upgrading server [5-5](#)
- #### approve permissions [8-5](#)
- #### approver role [8-6](#)
- #### assign permissions [8-5](#)
- #### authorization, changes in ACS for devices [8-30](#)
- #### Auto Update Server (AUS)
- installing [5-2](#)
 - licensing [2-4, 2-7](#)
 - logging into [6-12](#)
 - overview [1-2](#)
 - required user accounts [5-1](#)
 - server requirements [3-4](#)
 - uninstalling [5-19](#)
 - upgrading [5-5](#)

B

backup

- committing pending data before performing [5-10](#)
- Cygwin limitations [A-5](#)
- database [5-12](#)

backup/restore upgrade path, definition of [5-6](#)

back up database [5-13](#)

bootstrapping devices [7-8](#)

browser cookies [6-2](#)

browsers

- configuring required settings [6-1](#)
- configuring required settings for Firefox [6-3](#)
- configuring required settings for Internet Explorer [6-2](#)
- logging into applications [6-12](#)
- supported [3-7, 3-11](#)

C

certificates

- requirement to create [7-1](#)
- troubleshooting [4-3](#)

Cisco Security Agent, caution while disabled [6-7](#)

Cisco Security Agent, disabling [6-7](#)

Cisco Security Agent (CSA)

- installing [5-2](#)
- upgrading [5-5](#)

CiscoWorks Common Services

- assigning roles to users [8-7](#)
- associating user roles and permissions [8-11](#)
- available user roles [8-6](#)
- configuring AAA mode [8-23](#)
- creating administration control user in ACS [8-20](#)
- creating local user for Cisco Secure ACS [8-21](#)
- defining system identity user [8-22](#)
- installing [5-2](#)
- licensing [2-4, 2-7](#)
- logging into [6-12](#)

overview [1-1](#)

performing integration for Cisco Secure ACS [8-21](#)

registering Security Manager with Cisco Secure ACS [8-24](#)

required version [1-1](#)

understanding user permissions [8-3](#)

uninstalling [5-19](#)

upgrading [5-5](#)

client

clearing server list in Login window [A-15](#)

log files [A-15](#)

operating systems [3-10](#)

requirements [3-10](#)

troubleshooting after installation [A-13](#)

troubleshooting installation [A-10](#)

control permissions [8-5](#)

cookies for browsers [6-2](#)

Cygwin problems during database backup [A-5](#)

D

Daemon Manager

restarting after Cisco Secure ACS integration [8-25](#)

database

- backing up [5-12, 5-13](#)
- committing pending data before upgrade [5-10](#)
- restoring [5-14](#)

date and time settings [3-1, 4-3](#)

deploy permissions [8-5](#)

devices

- bootstrapping [7-8](#)
- changes to ACS authorization not appearing in Security Manager [8-30](#)

directory encryption, restriction against [3-4](#)

domain controllers (primary or backup), unsupported use [3-4](#)

dual-screen setups [A-16](#)

E

- e-mail address, Security Manager administrator [8-24](#)
- encrypted directories, restriction against [3-4](#)
- error messages
 - client installation [A-10](#)
 - server installation [A-4](#)
 - server uninstallation [A-8](#)

F

- Firefox
 - cache size requirement [6-4](#)
 - configuring required settings [6-3](#)
 - disabling popup blocker [6-4](#)
 - displaying help in new tab [6-5](#)
 - editing the preferences file [6-3](#)
 - enabling Javascript [6-4](#)
 - supported versions [3-7, 3-11](#)
- for more information [7-8](#)

H

- help desk user role [8-6](#)
- HTTP, configuring non-default port [6-9](#)
- HTTPS
 - configuring non-default port [6-9](#)
 - determining mode [A-15](#)

I

- import permissions [8-5](#)
- indirect upgrade path, definition of [5-6](#)
- installation
 - Security Manager, AUS, Common Services [5-2](#)
 - Security Manager client [6-6](#)
 - troubleshooting client [A-10](#)
 - troubleshooting server [A-4](#)

- using remote desktop or VNC [5-2](#)
- verifying [7-7](#)

Internet Explorer

- cache size requirement [6-3](#)
- configuring required settings [6-2](#)
- security settings [6-2](#)
- supported versions [3-7, 3-11](#)

Internet Information Server (IIS), requirement to uninstall [4-2](#)

J

- Java requirements [3-7, 3-11](#)

L

- LAN Management Solution (LMS), unsupported use [4-2](#)
- LiaisonServlet error, troubleshooting [A-6](#)
- licenses
 - Product Authorization Key (PAK) [2-2](#)
 - Security Manager kit part numbers [2-8](#)
 - Software License Claim Certificate [2-2](#)
 - updating [5-17](#)
- local upgrade path, definition of [5-5](#)
- log files [A-18](#)

M

- memory (RAM)
 - client requirements [3-11](#)
- modify permissions [8-4](#)

N

- Network Access Restriction (NAR) [8-13](#)
- network administrator role
 - Cisco Secure ACS [8-10](#)
 - CiscoWorks [8-6](#)
- network device groups (NDGs)

- activating NDG feature [8-19](#)
- associating with roles and user groups [8-27](#)
- configuring [8-18](#)
- creating [8-19](#)
- effect on user permissions [8-18](#)
- network operator role [8-6](#)

O

- operating systems
 - client [3-10](#)
- overview [1-1, 2-1](#)

P

- pdshow command [7-2](#)
- pending data, committing [5-10](#)
- performance
 - client recommendations [3-10](#)
 - server best practices [4-1](#)
 - server recommendations [3-4](#)
- Performance Monitor
 - logging into [6-12](#)
 - overview [1-3](#)
 - required user accounts [5-1](#)
 - server requirements [3-4](#)
 - uninstalling [5-19](#)
 - updating licenses [5-17](#)
 - upgrading [5-5](#)
- permissions
 - assigning roles in CiscoWorks [8-7](#)
 - associating with user roles [8-11](#)
 - categories [8-4](#)
 - customizing for ACS [8-10](#)
 - impact of NDGs [8-18](#)
 - understanding [8-3](#)
- point patches
 - applying to a client [6-10](#)

- obtaining [5-18](#)
- popup blocker
 - disabling [6-5](#)
 - disabling for Firefox [6-4](#)
- ports
 - comprehensive list of required TCP/UDP [A-2](#)
 - configuring non-default HTTP/HTTPS [6-9](#)
 - list of typically required [3-1](#)
- processes
 - restarting server [A-18](#)
 - troubleshooting [A-17](#)
 - verifying [7-2](#)
- property files [5-10](#)

R

- remote desktop, using for installation [5-2](#)
- remote upgrade path, definition of [5-6](#)
- requirements
 - client [3-10](#)
 - data and time settings [3-1, 4-3](#)
 - general server [3-1](#)
 - server [3-4](#)
 - unsupported server configurations [3-4](#)
- Resource Manager Essentials (RME)
 - logging into [6-12](#)
 - required user accounts [5-1](#)
 - server requirements [3-4](#)
 - uninstalling [5-19](#)
 - updating licenses [5-17](#)
 - upgrading [5-5](#)
- restorebackup.pl command [5-14](#)
- restore database [5-14](#)
- roles
 - Cisco Secure ACS users [8-9](#)
 - CiscoWorks users [8-6](#)

S
Security 1-2**security**server best practices [4-1](#)security administrator role [8-10](#)**Security Manager**committing pending data before upgrade [5-10](#)component applications [1-1](#)downgrading server [5-19](#)getting started with [7-8](#)installing [5-2](#)logging in using browser [6-12](#)logging in using client [6-10](#)overview [1-2](#)related applications [1-3](#)required changes after upgrade [5-15](#)required user accounts [5-1](#)restarting Daemon Manager [8-25](#)server requirements [3-4](#)service startup requirements [A-1](#)troubleshooting interaction with ACS [8-28](#)uninstalling server [5-19](#)updating licenses [5-17](#)upgrading server [5-5](#)**Security Manager client**clearing server list in Login window [A-15](#)configuring non-default HTTP/HTTPS port [6-9](#)determining HTTPS mode [A-15](#)installing [6-6](#)locating client logs [A-15](#)logging into [6-10](#)patching [6-10](#)resolving version mismatch [A-15](#)running in dual-screen mode [A-16](#)unable to upgrade [6-9](#)uninstalling [6-12](#)**server**best practices for security [7-7](#)date and time settings [3-1, 4-3](#)general requirements [3-1](#)performance, best practices for enhancing [4-1](#)post installation tasks [7-1](#)preparation checklists [4-1](#)readiness checklist [4-3](#)requirements [3-4](#)security, best practices for enhancing [4-1](#)troubleshooting post-installation problems [A-5](#)unsupported configurations [3-4](#)verifying processes [7-2](#)**service packs**applying to a client [6-10](#)obtaining [5-18](#)services, minimum required for Windows [4-2](#)service startup requirements [A-1](#)SMTP, configuring for ACS notifications [8-24](#)SSL certificate invalidation [4-3](#)storage, supported SAN [3-9](#)submit permissions [8-5](#)Sybase, requirement to disable [4-4](#)system administrator role [8-6](#)system identity user [8-15, 8-22](#)

T
TACACS+selecting as CiscoWorks AAA mode [8-23](#)using ACS as [8-12](#)**TCP**comprehensive list of required ports [A-2](#)list of typically required ports [3-1](#)Terminal Services, unsupported configuration [3-4](#)**troubleshooting**ACS configurations [8-28](#)antivirus scanners [4-2](#)client after installation [A-13](#)client installation [A-10](#)

- client installer says old version is installed when it is not [A-13](#)
- collecting server troubleshooting information [A-17](#)
- Cygwin prevents backup [A-5](#)
- dual-screen setups [A-16](#)
- error messages
 - client installation [A-10](#)
 - server installation [A-4](#)
 - server uninstallation [A-8](#)
- host-based intrusion software [4-2](#)
- incorrect interface appearance [A-5](#)
- installation does not run [A-16](#)
- installation hangs [A-5, A-12](#)
- invalid SSL certificate [4-3](#)
- java.security.cert errors [4-3](#)
- LiaisonServlet error [A-6](#)
- mapped drives [A-7](#)
- missing product features [A-5](#)
- overview [A-1, B-1](#)
- restarting server processes [A-18](#)
- reviewing installation log files [A-18](#)
- security software conflicts [4-2](#)
- server installation [A-4](#)
- server problems after installation [A-5](#)
- server processes [A-17](#)
- server self-test [A-16](#)
- server uninstall [A-8](#)
- unable to upgrade client [6-9](#)
- uninstallation does not run [A-16](#)
- uninstallation hangs [A-9](#)
- typographical conventions in this document [2-x](#)

U

UDP

- comprehensive list of required ports [A-2](#)
- list of typically required ports [3-1](#)
- uninstallation
 - recommendation to restart servers [5-19](#)

- Security Manager client [6-12](#)
- server applications [5-19](#)
- troubleshooting server [A-8](#)
- upgrade, verifying [7-7](#)
- user accounts
 - admin [5-1](#)
 - casuser [5-1](#)
 - creating [5-1](#)
 - managing [8-1](#)
 - System Identity [5-2](#)
- user permissions
 - assigning roles in CiscoWorks [8-7](#)
 - associating with user roles [8-11](#)
 - categories [8-4](#)
 - customizing for ACS [8-10](#)
 - impact of NDGs [8-18](#)
 - understanding [8-3](#)
- user roles
 - associating with user permissions [8-11](#)
 - available CiscoWorks user roles [8-6](#)
 - Cisco Secure ACS [8-9](#)
 - CiscoWorks [8-6](#)
 - default ACS roles [8-10](#)

V

- version mismatch, resolving [A-15](#)
- view permissions [8-4](#)
- VMWare supported versions [3-7](#)
- VNC, using for installation [5-2](#)

W

web browsers

- configuring required settings [6-1](#)
- logging into applications [6-12](#)
- supported [3-7, 3-11](#)
- Windows services, required [4-2](#)