



## INDEX

---

### A

AAAprompts.properties [9-5](#)  
access control lists  
    assigning to devices [7-18](#)  
    assigning to PAKs [7-26](#)  
adding  
    device groups [7-11](#)  
    devices [7-8](#)  
    policies [8-16](#)  
    user accounts [6-2](#)  
admin, user profile information [6-2](#)  
administrative privileges [2-3](#)  
admin password  
    adding during installation [3-4](#)  
    changing [9-9](#)  
alerts, viewing [6-6](#)  
annotating licenses [8-12](#)  
audit trail logs [6-11](#)  
Audit Trail Report [6-14](#)  
authentication methods [4-6](#)  
autodiscovery of devices [7-2](#)  
automatic upgrade [3-9](#)

---

### B

backing up multihost CLM databases [9-3](#)  
backing up the database [9-2](#)  
before you begin [4-1](#)

---

### C

cautions, significance of [i-x](#)

certificate file, setting installation default [3-7](#)  
checking connectivity [7-18](#)  
Check License Portal [8-15](#)  
checklist, getting started [4-4](#)  
Cisco.com, registering [2-3, A-2](#)  
Cisco IOS dependencies, see your device documentation [2-2](#)  
Cisco license agent on devices [4-1](#)  
Cisco License Manager  
    checking connectivity with license portal [8-15](#)  
    downloading software packages [3-1](#)  
    features [1-2](#)  
    installing by using a CLI script [3-5, 3-7](#)  
    installing by using the GUI [3-2](#)  
    navigating the GUI [5-17](#)  
    overview [1-1](#)  
    reinstalling [3-10](#)  
    uninstalling [3-10](#)  
    updating the trust store with the latest SSL certificate [9-10](#)  
    upgrading automatically from previous release [3-9](#)  
CiscoWork devices, importing into CLM [9-6](#)  
CLI script for installing CLM [3-5, 3-7](#)  
clm.properties [9-10](#)  
clm\_import.bat [9-6](#)  
clm\_installer.bat [3-3, 3-9](#)  
connection information [5-13](#)  
connection method information [5-13](#)  
conventions [i-x](#)

---

### D

database, support for external SQL [3-5](#)  
deleting

- devices from inventory [7-10](#)
- licenses [8-5](#)
- policies [8-18](#)
- user accounts [6-6](#)
- deploying licenses [8-5](#)
- Deploy Licenses explorer [5-14](#)
- device
  - autodiscovery [7-2](#)
  - configuration for CLM [2-2, 2-3](#)
  - discovery [7-5](#)
- device authentication, configuring [4-4](#)
- device connection information [5-13](#)
- DeviceExportCSV.bat [9-8](#)
- DeviceExportFromCSV.sh [9-8](#)
- device groups
  - changing passwords globally [7-15](#)
  - working with [7-11](#)
- DeviceImportFromCSV.bat [9-7](#)
- DeviceImportFromCSV.sh [9-7](#)
- device information, polling for [7-17](#)
- device notification [4-1](#)
- device properties, viewing [7-16](#)
- device protocol, reconfiguring [9-9](#)
- devices
  - adding to inventory [7-8](#)
  - assigning access control lists [7-18](#)
  - changing credentials globally [7-15](#)
  - checking connectivity [7-18](#)
  - finding [7-16](#)
- Device Summary Report [6-14](#)
- Discover Device Assistant [7-5](#)
- discovering devices [7-5](#)
  - automatically [7-2](#)
  - concept in CLM [1-5](#)
  - creating properties file for customized TACACS+ and device login prompts [9-5](#)
  - overview [1-5](#)
  - using Discover Device Assistant [7-5](#)
- DNS requirement [2-3](#)

- documentation, conventions [i-x](#)
- downloading CLM software packages [3-1](#)
- dual NIC
  - configuring for [3-4](#)
  - support for [2-2](#)

---

## E

- editing
  - policies [8-18](#)
  - user profile information [6-3](#)
  - user roles [6-5](#)
- e-mail ID, updating profile [4-1](#)
- e-mail server [A-2](#)
- e-mail service
  - installation default [3-7](#)
  - reconfiguring [9-9](#)
  - server installation question about [3-4](#)
- enable passwords
  - configuring in adding a device via the GUI [7-10](#)
  - configuring in Autodiscovery [7-4](#)
  - configuring in Discover Devices Assistant [7-7](#)
- error messages, in dialog boxes [6-12](#)
- error messages, server status [6-10](#)
- expired licenses, viewing [8-14](#)
- expiring features, checking for [6-19](#)
- expiring license, viewing [8-14](#)
- exporting
  - device information to a CSV file [9-8](#)
  - reports to CSV file [6-18](#)

---

## F

- features [1-2](#)
- firewalls
  - allowing the CLM client to connect to the server [9-10](#)
  - gateway device requirements [2-2](#)
  - requirements for [2-3](#)

flowcharts, getting started [4-3](#)  
 frequently asked questions [A-1](#)

---

## G

get license [8-1](#)  
 getting started checklist [4-4](#)  
 Getting Started explorer [5-16](#)  
 getting started flowchart [4-3](#)  
 GUI, understanding [5-1](#)

---

## H

HTTP server, enabling [4-5](#)  
 HTTPS server, enabling [4-5](#)

---

## I

icon descriptions [5-3](#)  
 importing
 

- CiscoWork devices [9-6](#)
- devices by using CSV files [9-7](#)
- devices by using XML files [9-5](#)

 install.properties [3-6](#)  
 installation
 

- considerations [i-xi, 2-1](#)
- customized install file [3-6](#)
- default directory [3-3](#)
- firewall considerations [2-3](#)
- required preparations [2-3](#)
- silent [3-5, 3-7](#)
- verifying [3-8](#)

 installing
 

- by using a CLI script [3-5, 3-7](#)
- by using the GUI [3-2](#)

 ip http authentication [4-6](#)  
 ip http secure-port [4-5](#)  
 ip http secure-server [4-5](#)

ip http server [4-5](#)

---

## J

Java requirements [2-1](#)  
 job status, viewing [6-8](#)

---

## L

license agent listener [4-5](#)  
 license agent notify [4-6](#)  
 License Assistant [8-1](#)  
 License Discrepancy Report [6-15](#)  
 License Expiry Report [6-15](#)  
 license line information [5-9](#)  
 license portal, checking connectivity with CLM [8-15](#)  
 license properties, viewing [8-13](#)  
 licenses
 

- acquisition, described [1-3](#)
- annotating [8-12](#)
- deleting [8-5](#)
- deploying [8-5](#)
- getting [8-1](#)
- notifications [8-14](#)
- polling [8-6](#)
- renewing [8-12](#)
- resending [8-6](#)
- RMA [8-9](#)
- synchronizing devices [7-17](#)
- transferring [8-7, 8-9](#)

 license set information [5-10](#)  
 licensing
 

- performed from a central location [1-2](#)

 logging host [4-4](#)  
 logging in [4-7](#)  
 login prompts, customized for TACACS+ [9-5](#)  
 logs, viewing [6-11](#)

---

**M**

main areas of the GUI [5-2](#)  
 Manage Devices explorer [5-10](#)  
 Manage Licenses explorer [5-7](#)  
 Manage PAKs explorer [5-5](#)  
 Manage Users explorer [5-14](#)  
 managing users [6-2](#)  
 menu bar [5-3](#)

---

**N**

navigating in CLM [5-17](#)  
 navigation, Quick Links pane [5-3](#)  
 network and port requirements [2-2](#)  
 Newly Discovered Device Report [6-16](#)  
 NICs, support for dual [2-2](#)

---

**P**

PAK properties [5-6, 7-25](#)  
 PAKs  
   adding folders [7-21](#)  
   adding to existing folders [7-19](#)  
   assigning access control lists [7-26](#)  
   deleting [7-20](#)  
   deleting folders [7-22](#)  
   finding [7-16](#)  
   moving to a different folder [7-24](#)  
   refreshing the folder [7-23](#)  
   removing from a folder [7-23](#)  
   renaming folders [7-22](#)  
   viewing download information [7-25](#)  
   viewing properties [7-25](#)  
 passwords  
   changing device credentials globally [7-15](#)  
   changing users [6-3](#)  
   configured in Setup program [9-9](#)  
   configuring enable [7-4, 7-7, 7-10](#)

policies  
   adding [8-16](#)  
   deleting [8-18](#)  
   described [8-16](#)  
   editing [8-18](#)  
   running [8-19](#)  
   viewing [8-18](#)  
 Policy Licensing explorer [5-15](#)  
 polling  
   concepts [7-17](#)  
   controlling the frequency [6-19](#)  
   licenses [7-17](#)  
 ports  
   default [3-3](#)  
   installation default [3-6](#)  
   reconfiguring [9-9](#)  
   requirements [2-2](#)  
 preparations [4-1](#)  
 prerequisites to using [4-1](#)  
 profile, updating e-mail ID [4-1](#)

---

**Q**

Quick Links navigation pane [5-3](#)

---

**R**

Redeployable License Report [6-16](#)  
 refreshing PAK folders [7-23](#)  
 registering on Cisco.com [2-3](#)  
 reinstalling [3-10](#)  
 renaming PAK folders [7-22](#)  
 renewing licenses [8-12](#)  
 reports  
   audit trail [6-14](#)  
   device summary [6-14](#)  
   exporting to CSV file [6-18](#)  
   generating [6-18](#)

- license discrepancy [6-15](#)
- license expiry [6-15](#)
- list of [6-13](#)
- newly discovered device [6-16](#)
- printing [6-18](#)
- redeployable licenses [6-16](#)
- right to use evaluation licenses [6-16](#)
- RMA discrepancy [6-17](#)
- undeployed licenses [6-17](#)
- viewing [6-18](#)

requirements

- Cisco IOS (see your device documentation) [2-2](#)
- Java [2-1](#)
- network and port [2-2](#)

resending licenses [8-6](#)

restarting the server [6-1](#)

restoring multihost CLM databases [9-3](#)

restoring the database [9-2](#)

Right to Use License Report [6-16](#)

RMA, described [8-9](#)

RMA Device Assistant [8-9](#)

RMA Discrepancy Report [6-17](#)

---

## S

- selecting objects [5-17](#)

server

- restarting [6-1](#)
- starting [6-1](#)
- stopping [6-1](#)

server software, installation defaults [3-6](#)

setup program, running [9-9](#)

silent installation [3-5, 3-7](#)

SMTP e-mail server [3-4, A-2](#)

software packages, downloading [3-1](#)

SSL certificate, updating to the latest [9-10](#)

SSL devices, setting in installation [3-7](#)

SSL handshake error with Cisco Product License Registration server [9-10](#)

- status area [5-16](#)
- status messages, error levels [6-10](#)
- stopping the server [6-1](#)
- subscription licenses, renewing [8-12](#)
- synchronizing device licenses [7-17](#)

---

## T

TACACS+ server

- creating the AAAprompts.properties file for customized login prompts [9-5](#)
- support for discovery of authenticated devices [4-5](#)

time, display in GUI [5-17](#)

toolbar [5-3](#)

Transfer License Assistant [8-7](#)

transferring

- concept [8-7](#)
- licenses [8-6, 8-7](#)
- RMA licenses [8-9](#)

transport information for the device [5-13](#)

troubleshooting tips [A-8](#)

---

## U

UDI format [7-8](#)

Undeployed License Report [6-17](#)

uninstalling [3-10](#)

updating

- Cisco.com user name [6-3](#)
- user passwords [6-3](#)

upgrading automatically [3-9](#)

user interface, see also GUI [5-1](#)

user profile, updating with e-mail data [4-1](#)

user profiles, managing [6-2](#)

user roles, editing [6-5](#)

users

- adding accounts [6-2](#)
- deleting accounts [6-6](#)
- editing profile information [6-3](#)

editing roles [6-5](#)  
roles defined [1-7](#)

---

## **V**

verifying installation [3-8](#)  
viewing job status [6-8](#)

---

## **W**

Windows Registry keys [A-2](#)