



## INDEX

---

### A

- abbreviated dialing [3](#)
- About window, build versions might vary [15](#)
- adjunct licensing [9](#)
- administration tool
  - for audio IP address detection [9](#)
  - for unsupported VPN clients [9](#)
- advanced audio settings [11](#)
- alarms, displaying [17](#)
- application performance
  - degraded [14](#)
  - monitoring [19](#)
- audience, for this document [9](#)
- audio devices
  - installing [1](#)
  - selecting and tuning [1,5](#)
  - selection for audio modes [5](#)
  - supported [1](#)
  - tuning [5](#)
- audio formats, supported [12](#)
- audio IP address
  - and Administration Tool [9](#)
  - auto-detection of [9,10](#)
  - reflector web page for [9,10](#)
  - resolving problems with [9,10](#)
  - with VPN, how detected [9](#)
- audio modes, selecting devices for [5](#)
- audio port range, selections for [11](#)
- audio quality, troubleshooting [1](#)
- audio settings
  - common tuning mistakes [6](#)
  - configuring advanced [11](#)

- for remote use [12](#)
- audio tuning wizard
  - and Windows 2000 [15](#)
  - microphone tuning restrictions [15](#)
  - using [1,5](#)
- authenticated calls [14](#)
- authentication
  - certificate for device [13](#)
  - providing Quick Search information to users [13](#)
  - security profiles [14](#)
  - signaling [13](#)
- auto answer [3](#)
- auto-registration
  - for SIP devices [5](#)
  - using [6](#)
  - with TAPS [7](#)

---

### B

- background images
  - See custom background images
- background noise, reducing [11](#)
- barge [3](#)
- BAT, adding Cisco IP Communicator with [8](#)
- block external-to-external transfer [3](#)

---

### C

- caller ID [3](#)
- call-forward alternate party
  - See CFAP
- call forward display, configuring [4](#)
- call park [3](#)

- call pickup [3](#)
- call preferences, displaying [6](#)
- calls
  - authenticated [14](#)
  - digits not recognized [14](#)
  - display restrictions [3](#)
- Call Statistics screen, viewing locally [13](#)
- call waiting [3](#)
- CAPF, described [13](#)
- CDP [2](#)
- Certificate Authority Proxy Function
  - See CAPF
- certificate for device authentication [13](#)
- certificate trust list
  - See CTL [4](#)
- CFAP [5](#)
- checklist
  - for configuring after installation [1](#)
  - for deploying [2](#)
- Cisco Call Back [3](#)
- Cisco Discovery Protocol
  - See CDP
- Cisco IP Communicator
  - adding manually [8](#)
  - auto-registering [6](#)
  - configuring [1](#)
  - deploying [2](#)
  - deploying in SCCP and SIP environments [11](#)
  - described [1](#)
  - device web page for [14](#)
  - methods for adding [6](#)
  - registering [6](#)
  - resetting unexpectedly [14](#)
- Cisco IP Manager Assistant [4](#)
- Cisco IP Telephony Locale Installer [3](#)
- Cisco TAC Case Collection tool [2](#)
- Cisco Unified Communications Manager
  - configuring features for [1](#)
  - directory servers for [9](#)
  - interaction with Cisco IP Communicator [4](#)
  - releases supported [5](#)
  - requirements for Cisco IP Communicator [1](#)
  - with auto-registration and TAPS [7](#)
  - with BAT [8](#)
- client matter codes
  - See CMC
- client PC
  - deploying on [4](#)
  - requirements of [1](#)
- CMC [4](#)
- codecs
  - mismatches between IP Communicator and another device [10](#)
  - poor audio quality with low-bandwidth codecs and cell phones [10](#)
- command-line options
  - allowing SIP devices to auto-register [5](#)
  - displaying a dialog box that users must manually dismiss [6](#)
  - for the MSI package [4](#)
  - installing a language locale [5](#)
  - specifying a device name
    - free-form [5](#)
    - free-form and TFTP server addresses [5](#)
    - network interface [5](#)
    - network interface and TFTP server addresses [5](#)
  - specifying a TFTP server
    - multiple [5](#)
    - single [5](#)
  - specifying device name with [7](#)
  - specifying network interface with [7](#)
- common tuning mistakes [6](#)
- conference [4](#)
- configurable call forward display [4](#)
- configuration files
  - cnf.xml, described [6](#)
  - CTLFile.tlv, described [6](#)
  - damage to [6](#)
  - described [7](#)

- requesting at startup [6](#)
    - requests for [7](#)
    - types generated by TFTP server [8](#)
    - xmldefault.cnf.xml, described [6](#)
  - configuration server, locating at startup [5](#)
  - conventions, use of [10](#)
  - credentials
    - for Quick Search [13](#)
    - providing to users [13](#)
  - CTL file
    - and TLS connection [7](#)
    - described [13](#)
    - erasing [19](#)
    - information displayed in Cisco IP Communicator [8](#)
    - request for it during startup process [5](#)
  - CTL File screen [8](#)
  - custom background images
    - configuring [5](#)
    - described [3](#)
    - List.xml file format requirements [4](#)
    - PNG file requirements [5](#)
  - custom phone rings
    - described [1](#)
    - PCM file requirements [2](#)
- 
- ## D
- debug messages, displaying [17](#)
  - deployment
    - checklist [2](#)
    - methods [3](#)
    - tools
      - for software updates [6](#)
      - using [4](#)
  - detailed logs, described [4](#)
  - device authentication [13](#)
  - device information
    - displaying call preferences [6](#)
    - displaying line settings information [5](#)
    - displaying SIP configuration information [4](#)
    - viewing from web page [15](#)
    - viewing locally [2](#)
  - device logs, viewing remotely [17](#)
  - device names
    - and docking station [8](#)
    - and laptops [8](#)
    - and MAC address [7](#)
    - and network interface [7](#)
    - and wireless interface [8](#)
    - derivation of [7](#)
    - for switching between SCCP and SIP configurations [12](#)
    - selecting
      - after disabled or removed interface [8](#)
      - described [7](#)
      - multiple network interfaces [8](#)
      - shared PCs [8](#)
    - specifying
      - free-form name with command-line options [5](#)
      - network interface with command-line options [5](#)
    - troubleshooting [7](#)
  - DHCP
    - at startup [5](#)
    - described [2](#)
  - dialing rules
    - for Quick Search [14](#)
    - for SIP [8](#)
  - directories
    - button [8](#)
    - configuring [8](#)
    - integrating [9](#)
  - directory numbers, assigning
    - manually [8](#)
    - with auto-registration [6](#)
    - with BAT [8](#)
    - with TAPS and auto-registration [7](#)
  - directory search methods, overview [8](#)
  - directory wizard

- configuring Quick Search with 10
- tips for configuring 11
- direct transfer 4
- disk space, insufficient 5
- docking stations, and network interfaces 8
- do not disturb 4
- Dynamic Host Configuration Protocol
  - See DHCP

---

## E

- echoes, resolving problems with 11
- enable logging setting 4
- Ethernet interface, and device name 8
- executable installer, using 2
- Extensible Markup Language
  - See XML

---

## F

- FAC 4
- features, described 1
- firewalls, selecting port range for 11
- forced authorization codes
  - See FAC
- forward 4

---

## G

- getIP.asp, creating for audio IP address detection 9
- group call pickup 4
- guide, conventions 10

---

## H

- hardware requirements 1
- headsets
  - See audio devices

- hold 4
- HTTP
  - use of 3
- HyperText Transfer Protocol
  - See HTTP

---

## I

- idle display, configuring 6
- immediate divert 4
- information needed by users 1
- installation
  - adding devices to the database 6
  - checklist 2
  - client PC requirements 1
  - network requirements 1
  - prerequisites 1
  - requirements 1
- installer packages, described 3
- internal web server, disabling 14
- IP, described 3

---

## J

- join 4

---

## L

- language locale
  - prompted for during installation 4
  - specifying with command-line option 5
- languages, support for 3
- laptops, and network interfaces 8
- LDAP
  - and personal directories 15
  - use of 3
  - with Quick Search 9
- licensing, adjunct

- configuring [9](#)
- described [9](#)
- restrictions [9](#)

Lightweight Directory Access Protocol

- See LDAP

line buttons, templates for [6](#)

line settings, displaying [5](#)

local configuration, understanding [13](#)

localization, installing Cisco IP Telephony Locale Installer [3](#)

Locally Significant Certificate

- See LSC

local settings access, disabling [13](#)

locked configuration options

- described [18](#)
- locked padlock icon [18](#)
- unlocking [18](#)

logging, enabling [4](#)

logs

- capturing detailed [4](#)
- collecting when the application crashes [3](#)

low bandwidth

- and digital cell phones [10](#)
- enabling [12](#)

LSC

- described [12](#)
- does not install issue [8](#)

---

## M

MAC address

- and device name [7](#)
- and network interface [7](#)

malicious caller identification

- See MCID

MCID [5](#)

meet-me conference [5](#)

message waiting [5](#)

Microsoft Windows Installer package (MSI), using [2](#)

MLPP [5](#)

model information [7](#)

multilevel precedence and preemption

- See MLPP

music-on-hold [5](#)

---

## N

network, disabling settings [13](#)

Network Configuration web page [16](#)

networking protocols

- BootP [2](#)
- CDP [2](#)
- DHCP [2](#)
- HTTP [3](#)
- IP [3](#)
- LDAP [3](#)
- RTP [3](#)
- SCCP [3](#)
- SDP [3](#)
- SIP [3](#)
- TCP [3](#)
- TFTP [4](#)
- TLS [4](#)
- UDP [4](#)
- XML [4](#)

network interface

- and device name [7](#)
- and docking stations [8](#)
- and laptops [8](#)
- and MAC address [7](#)
- Ethernet [8](#)
- removing or disabling [7](#)
- selecting [7](#)
- specifying with command-line options [7](#)
- troubleshooting [7](#)
- wireless [8](#)

network requirements, for installing [1](#)

noise suppression [11](#)

**O**

## one-way audio

- resolving problems with [11](#)
- with unsupported VPN clients [9](#)

## operational information

- overview [1](#)
- viewing locally [2](#)
- viewing remotely [14](#)

**P**passwords, providing to users [13](#)

## PCM

- custom ring type file requirements [2](#)
- described [1](#)

PC requirements [1](#)performance, improving for remote users [12](#)performance degraded from detailed logs [4](#)performance monitoring [19](#)

## personal address book service

- configuring [15](#)
- using Quick Search with [15](#)
- using synchronizer with [15](#)

personal directories [15](#)personal fast dial service [15](#)phone button templates, modifying [6](#)phone load information [7](#)

## phone screen

- configuring idle display [6](#)
- configuring images [3](#)

platform requirements [1](#)port range, selecting [11](#)

## post-installation tasks

- recommended [4](#)
- required [2](#)

privacy [5](#)

## privileges

- for deploying [3,4](#)

## Problem Reporting Tool

- caveats for roaming users [3](#)
- described [3](#)

## protocols

- call control running on Cisco IP Communicator [7](#)
- supported [2](#)

## pulse code modulation

- See PCM

**Q**

## QoS

- network modifications to prioritize voice traffic [9](#)
- restricted range of RTP ports [11](#)

QRT [5](#)

- described [2](#)
- softkey [5,3](#)

## quality of service

- See QoS

## Quality Reporting Tool

- See QRT

## Quick Search

- described [9](#)
- dialing rules for [14](#)
- resolving problems with [14](#)
- specifying authentication information for [13](#)
- specifying credentials for [13](#)
- supported releases [11](#)
- with external directories [12](#)
- with the personal address book service [15](#)

**R**

## Real-Time Transport Protocol

- See RTP

redial [5](#)

## registration

- failure [6,7](#)

- methods of [6](#)
- preparing for [2](#)
- with auto-registration [6](#)
- with BAT [8](#)
- with TAPS [7](#)

remote configuration, versus local [13](#)

remote use, settings for [12](#)

ring activity [5](#)

ringer

- customizing [3](#)
- selecting devices for [5](#)

RingList.xml

- described [1](#)
- file format requirements [2](#)

route patterns, with Quick Search [14](#)

RTP

- described [3](#)
- selecting audio port range [11](#)

## S

### SCCP

- converting existing IP Communicator installation to [11](#)
- described [3](#)
- using a device name to switch to SIP [12](#)

SDP, described [3](#)

secondary licensing

See licensing, adjunct

security

CTLFile.tlv, described [6](#)

resolving

- configuring IP error message [9](#)
- LSC does not install on client PC [8](#)
- registration rejected, security error message [8](#)

security and cryptographic features [12](#)

security configuration information, described [7](#)

security features

CAPF, described [13](#)

configuring with Release 4.x [15](#)

configuring with Release 5.x [16](#)

CTL file, described [13](#)

function of [12](#)

list of related topics [19](#)

locked padlock icon [18](#)

LSC, described [12](#)

supported [13](#)

verifying the configuration [18](#)

services

adding or deleting [8](#)

button [9](#)

configuring [7](#)

description [5](#)

subscribing to [8](#)

Services URL button [5](#)

Session Description Protocol

See SDP

Session Initiation Protocol

See SIP

settings button, disabling [13](#)

shared location, deploying to a [3](#)

shared PC

specifying device name for [8](#)

specifying network interface for [8](#)

specifying TFTP server for [7](#)

signaling authentication [13](#)

SIP

allowing auto-registration with command-line options [5](#)

converting

existing IP Communicator installation to [11](#)

new IP Communicator installation to [10](#)

described [3](#)

dialing rules [8](#)

using a device name to switch to SCCP [12](#)

SIP configuration information, displaying [4](#)

Skinny Client Control Protocol

See SCCP

- softkey templates, configuring 7
  - software
    - download site 6
  - software deployment tool
    - described 4
    - for updates 6
  - speed dial
    - described 5
    - templates for 6
  - SRST, IP address of router 9
  - startup
    - configuration tasks after 1
    - configuring audio devices after 5
    - improving performance for remote users 12
    - overview of 5
    - resolving problems with 5
    - resolving when unresponsive or slow 6
    - selecting device name after 7
    - selecting network interface after 7
    - specifying TFTP server after 6
  - statistics
    - call 13
    - sound sample mismatch 10
    - streaming 18
  - Status menu 9
  - Status Messages
    - screen, viewing locally 9
    - web page, viewing remotely 17
  - streaming statistics, viewing remotely 18
  - Survivable Remote Site Telephony
    - See SRST
- 
- T**
- TAC Case Collection tool 2
  - TAPS, with auto-registration 7
  - TCP, described 3
  - telephony features
    - abbreviated dialing 3
    - auto answer 3
    - barge 3
    - block external-to-external transfer 3
    - call display restrictions 3
    - caller ID 3
    - call park 3
    - call pickup 3
    - call waiting 3
    - Cisco Call Back 3
    - Cisco IP Manager Assistant 4
    - client matter codes 4
    - conference 4
    - configurable call forward display 4
    - direct transfer 4
    - do not disturb 4
    - forced authorization codes 4
    - forward 4
    - group call pickup 4
    - hold 4
    - immediate divert 4
    - join 4
    - malicious caller identification 5
    - meet-me conference 5
    - message waiting 5
    - multilevel precedence and preemption 5
    - music-on-hold 5
    - overview of 2
    - privacy 5
    - Quality Reporting Tool 5
    - redial 5
    - ring activity 5
    - services 5
    - Services URL button 5
    - speed dial 5
    - Time-of-Day Routing 6
    - transfer 6
    - video support 6
    - voice messaging system 6
  - TFTP



- at startup [5](#)
- described [4](#)
- use of [5](#)

TFTP server, specifying [6](#)

third-party headsets and handsets [2](#)

Time-of-Day Routing [6](#)

TLS

- described [4](#)
- establishing a connection [7](#)

tools

- Problem Reporting [3](#)
- Quality Report [2](#)

transfer [6](#)

Transmission Control Protocol

- See TCP

Transport Layer Security

- See TLS

Trivial File Transfer Protocol

- See TFTP

troubleshooting

- security problems [8](#)
- startup problems [5](#)
- viewing device logs [17](#)

trust list information, described [8](#)

Trust List screen [8](#)

tuning audio devices [5](#)

---

## U

UDP, described [4](#)

uninstall problem, all files not removed [5](#)

User Datagram Protocol

- See UDP

user information, providing [1](#)

users

- access to documentation and online help [4](#)
- adding [1](#)
- contact names to provide assistance [4](#)
- helping with configuration [14](#)

- how to report problems [4](#)
- information to complete configuration tasks [1](#)
- instructions for accessing voice messaging system [4](#)
- password information for [13](#)
- personal directory username and password [2](#)
- required information for [1](#)
- username and password for User Options web pages [2](#)

---

## V

video support [6](#)

voice messaging system [6](#)

voice quality

- disruptions, silences, jittery sounds [12](#)
- echoes [11](#)
- gaps in calls [10](#)
- no audio [10](#)
- QRT [2](#)
- robotic or distorted [12](#)
- with low-bandwidth codec and cell phone [10](#)

voice quality and voice gateways, diagnosing [2](#)

volume, for audio devices [5](#)

VPN clients

- audio IP address, how detected [9](#)
- supported software [9](#)
- support for [2](#)
- with audio IP address detection [9, 10](#)

---

## W

web page

- about [14](#)
- accessing [15](#)
- Device Information [15](#)
- for Cisco IP Communicator devices [14](#)
- Network Configuration [16](#)
- Status Messages [17](#)

web server, disabling [14](#)

Windows Performance Tool

setting up on Windows 2000 and XP [19](#)

setting up on Windows Vista [21](#)

wireless interface, and device name [8](#)

---

**X**

XML

use of [4](#)

with Quick Search [9](#)