



INDEX

A

accessing online help [4-13](#)
activating the PMC buttons [1-9, 4-13](#)
advanced PMC permissions [3-19](#)
alert tones
 caveats [4-27](#)
 names [3-16](#)
 playing out [4-26](#)
 privileges [3-18](#)
 upgrades [2-25](#)
all role [1-8](#)
All Talk button
 focus changes [4-26](#)
 functionality [4-12](#)
 latching [4-18](#)
 using with alert tone payout [4-27](#)
 using with multiselect [4-25](#)
application recovery [6-9](#)
audio quality [2-7](#)
audio settings configuration [2-7](#)
automatic updates [2-20](#)

B

browser support [1-18](#)

C

caution, described [xvii](#)
caveats
 alert tones [4-27](#)
 application troubleshooting [8-29](#)
 application usage [1-19](#)
 CLI commands [8-12](#)
 direct dial channels [4-32](#)
 direct two-way channels [4-29](#)
 DTMF tone generation [4-24](#)
 end-user interface configuration [5-1](#)
 installation [2-3](#)
 keyboard mapping [4-22](#)
 login [4-4](#)
 logs [7-6](#)
 multiselect [4-25](#)
 offline mode [4-7](#)
 password [4-5](#)
 radio-centric skin [5-7](#)

- skins [5-5](#)
- system recovery [6-4](#)
- tone-controlled radio channels [4-36](#)
- touch screen skin [5-6](#)
- troubleshooting [8-29](#)
- voice replay [4-40](#)
- VPN client [8-16](#)
- Channel [4-33](#)
- channel appearances [4-17](#)
- channel interactions
 - activated [4-19](#)
 - activating [4-19](#)
 - disabled [4-19](#)
 - listen-only [4-20](#)
 - not activated [4-19](#)
 - secure [4-20](#)
 - unassigned [4-19](#)
- channel mapping [4-21](#)
- channels
 - channel selector buttons [3-16](#)
 - connectivity failure indicator [8-26](#)
 - customized color indicators [3-17](#)
 - direct dial [3-14](#)
 - direct two-way [3-13](#)
 - disable audio [3-18](#)
 - dispatcher policy channel [3-11](#)
 - indicators [3-15](#)
 - interactions [4-15](#)
 - labels [3-16](#)
 - latch [4-17](#)
 - latch permission [3-17](#)
 - listen-only mode [3-17](#)
 - locations [3-20](#)
 - maximum channel support [4-16](#)
 - names [3-16](#)
 - policies [3-11](#)
 - radio [3-14](#)
 - secure indicators [3-17](#)
 - terminology [3-12](#)
 - traffic activity indicators [4-42](#)
 - transmission settings [3-18](#)
 - truncating names [3-16](#)
 - types [3-16](#)
 - using direct dial connections [4-31](#)
 - using direct two-way connections [4-29](#)
 - using tone-controlled radio channels [4-32](#)
 - visual indicators
 - connectivity failure [8-26](#)
 - types [3-15](#)
 - voice activity detection [3-18](#)
 - VTGs [1-8](#)
- channel selector buttons [4-35](#)
- channel states [4-18](#)
- channel traffic activity
 - administratively stopping transmission [4-44](#)
 - implicit floor control [4-44](#)
 - indicators [4-42](#)
 - interaction [4-44](#)

- receive and transmit indicators [4-42](#)
 - checking the microphone [2-10](#)
 - Cisco CallManager
 - documentation [xv](#)
 - Cisco CallManager Express
 - documentation [xv](#)
 - Cisco IOS
 - documentation [xvi](#)
 - Cisco IPICS
 - benefits [1-3](#)
 - browser support [1-18](#)
 - components [1-3](#)
 - deployment [1-21](#)
 - overview [1-2](#)
 - server [1-4](#)
 - server interactions [1-25](#)
 - user interactions [1-27](#)
 - Cisco IPICS user roles [1-6](#)
 - all [1-8](#)
 - dispatcher [1-7](#)
 - operator [1-7](#)
 - ops view administrator [1-7](#)
 - system administrator [1-7](#)
 - user [1-8](#)
 - Cisco IP Phones
 - documentation [xv](#)
 - Cisco Land Mobile Radio (LMR)
 - documentation [xvi](#)
 - Cisco Security Agent
 - documentation [xvi](#)
 - Cisco Unified IP Phone support [1-6](#)
 - codec support [3-24](#)
 - communications
 - multicast [3-19](#)
 - unicast [3-19](#)
 - communications interruptions [6-5](#)
 - components
 - Cisco IPICS server [1-4](#)
 - Cisco Unified IP Phone [1-6](#)
 - gateways [1-5](#)
 - PMC [1-4](#)
 - router media service [1-5](#)
 - configuring audio settings [2-7](#)
 - configuring key mapping [5-13](#)
 - configuring the PMC application [5-1](#)
 - connection support [3-19](#)
 - connectivity indicators
 - server connection status [4-6, 6-2](#)
 - SIP-based remote connections [3-21, 6-2, 8-26](#)
 - conventions, document [xvii](#)
 - customized skin downloads [2-21](#)
- ## D
- direct dial
 - caveats [4-32](#)
 - channels [4-31](#)
 - direct two-way

- caveats [4-29](#)
- channels [4-29](#)
- disable audio [3-18, 3-19](#)
- disconnected mode [4-9](#)
- dispatcher role [1-7](#)
- docking station, using [2-14](#)
- documentation
 - Cisco CallManager [xv](#)
 - Cisco CallManager Express [xv](#)
 - Cisco IOS [xvi](#)
 - Cisco IP Phones [xv](#)
 - Cisco Land Mobile Radio (LMR) [xvi](#)
 - Cisco Security Agent [xvi](#)
 - conventions [xvii](#)
 - MCS servers [xv](#)
- double-byte language support [8-27](#)
- downgrading the PMC [2-27](#)
- downloading the PMC update [2-23](#)
- DTMF tone generation
 - caveats [4-24](#)
 - focus changes [4-24](#)
 - supported keys [4-23](#)
 - using [4-24](#)
- dynamic configuration [4-15](#)

E

- echo [3-5](#)
- encrypted file system [8-5](#)

- end-user channel interactions [4-16](#)
- end-user features [4-20](#)
- error messages [8-29](#)

F

- feature support
 - channels [3-12](#)
 - end-user features [4-20](#)
 - implementing policies [3-11](#)
 - interoperability [3-1](#)
 - locations [3-20](#)
 - PMC skin [1-9](#)
- focus changes
 - alert tone playback [4-26](#)
 - All Talk channel [4-23](#)
 - DTMF tone generation [4-24](#)
 - mapped key [4-22](#)
 - multiselect [4-26](#)
 - PTT channel [4-23](#)
 - USB devices [4-21](#)
 - while transmitting [4-22](#)
- footswitch
 - key mapping [4-21](#)
 - troubleshooting [8-7](#)
- forced upgrades [2-22](#)

G

gateways

LMR [1-5](#)

router media service [1-5](#)

H

headset

audible hum [2-12](#)

checking audio settings [2-12](#)

connecting to PMC client machine [2-11](#)

resolving headset issues [8-11](#)

using a high-quality headset [2-11](#)

using a USB DSP headset [2-8](#)

using the microphone [2-9](#)

voice quality tips [2-11](#)

high latency, low bandwidth connections [5-14](#)

HTTPS [2-4](#)

Hypertext Transfer Protocol over Secure
Sockets Layer

See HTTPS

I

IE publisher error [8-15](#)

implementing policies [3-11](#)

incident management scenario [3-6](#)

installation log file [8-3](#)

installing the PMC application [2-2](#)

interactions

channels [4-15](#)

channel states [4-18](#)

Cisco Security Agent [2-6](#)

client-server [2-1](#)

end-user features and interactions [4-20](#)

PMC user [3-7](#)

scenarios [3-3](#)

server [1-25](#)

server-PMC interaction [3-8](#)

server-PMC login sequence [4-6](#)

system [1-25](#)

user [1-27](#)

J

joining a VTG [4-14](#)

K

key assignments [4-21](#)

keyboard mapping

caveats [4-22](#)

configuring [4-21](#)

focus changes [4-22](#)

footswitch [4-21](#)

L

Land Mobile Radio

See LMR

latch functionality

latching a channel [3-5](#)

latching the PTT button [1-20](#)

using the PMC latch [4-17](#)

license requirements [4-6](#)

listen-only channels [3-17](#)

LMR

channel representation [3-13](#)

gateway [1-5](#)

location [3-20](#)

log files [7-1](#)

logging in to the PMC

information [4-1](#)

local login [4-9](#)

login caveats [4-4](#)

logging out of the PMC [4-46](#)

loss of focus [4-22](#)

M

managing alert tone upgrades [2-25](#)

managing PMC upgrades [2-21](#)

managing version numbers [2-18](#)

maximum allowable voice streams

multicast channels [3-21](#)

MCS servers

documentation [xv](#)

microphone setup [2-10](#)

multicast

communications [3-19](#)

connection type [3-21](#)

maximum allowable voice streams [3-21](#)

PMC behavior when exceeding the
maximum allowable voice streams [3-21](#)

multiselect

caveats [4-25](#)

focus changes [4-26](#)

functionality [4-25](#)

N

note, described [xvii](#)

O

one-way audio issues [8-11](#)

online help [4-13](#)

operator role [1-7](#)

ops view administrator role [1-7](#)

optimizing audio for low bandwidth use [5-14](#)

optimizing for high latency, low bandwidth
connections [5-14](#)

optimizing your audio on the PMC [2-7](#)

optional settings submenus [5-16](#)

optional upgrades [2-22](#)

overview

Cisco IPICS 1-2

PMC 1-8

P

passwords

caveats 4-5

expiration 4-5

invalid login attempts 4-5, 4-10

PMC

alert tones 4-26

alert tone updates 2-21

All Talk button 4-25

application recovery 6-9

automatic updates 2-20

buttons 1-9, 4-13

caveats

alert tones 4-27

application troubleshooting 8-29

application usage 1-19

CLI commands 8-12

direct dial channels 4-32

direct two-way channels 4-29

DTMF tone generation 4-24

high latency, low bandwidth
connections 5-14

installation 2-3

keyboard mapping 4-22

login 4-4

logs 7-6

multiselect 4-25

offline mode 4-7

password 4-5

radio-centric skin 5-7

skins 5-5

system recovery 6-4

tone-controlled radio channels 4-36

touch screen skin 5-6

voice replay 4-40

VPN client 8-16

channels

appearance on PMC 4-17

customized color indicators 3-17

direct dial 3-14

direct two-way 3-13

focus 4-22

interactions 4-15

latch 4-17

latch permission 3-17

listen-only mode 3-17

radio 3-14

reordering 4-28

secure indicator 3-17

states 4-18

support 3-12

terminology 3-12

tone-controlled radios 4-32

traffic activity indicators 4-42

truncating names 3-16

- using direct dial connections [4-31](#)
- using direct two-way connections [4-29](#)
- visual indicators [3-15](#)
- voice activity detection [3-18](#)
- checking for updates [2-22](#)
- client application [1-4](#)
- communications interruptions [6-5](#)
- configuration customization [1-18](#)
- configuring the application [5-1](#)
- disconnected mode [4-9](#)
- downgrading the PMC [2-27](#)
- downloading the update [2-23](#)
- DTMF tone generation [4-24](#)
- end-user features [4-20](#)
- GUI [1-17](#)
- illustration [1-9](#)
- installation
 - caveats [2-3](#)
 - installing the application [2-2](#)
- interactions
 - Cisco Security Agent [2-6](#)
 - client-server [2-1](#)
- interface [1-8](#)
- interoperability features [3-1](#)
- joining a VTG [4-14](#)
- key assignments [4-21](#)
- key mapping [5-13](#)
- license requirements [4-6](#)
- locations
 - support [3-20](#)
 - truncating names [3-20](#)
- logging in
 - caveats [4-4](#)
 - local login [4-9](#)
- logging out [4-46](#)
- login information [4-1](#)
- logs
 - accessing the logs [7-3](#)
 - accessing the submenu [7-2](#)
 - caveats [7-6](#)
 - describing the logs [7-7](#)
 - examples [7-8](#)
 - files [7-1](#)
 - identifying the logs [7-1](#)
 - using the logs [7-5](#)
- maintaining the application
 - process [2-16](#)
- maintaining version compatibility [2-17](#)
- managing alert tone upgrades [2-25](#)
- managing skin downloads [2-21](#)
- managing upgrades [2-21](#)
- managing version numbers [2-18](#)
- multiselect channels [4-25](#)
- offline mode [4-7](#)
- online help [4-13](#)
- online help updates [2-21](#)
- optimize audio for low bandwidth use [5-14](#)
- passwords

- caveats [4-5](#)
- expiration [4-5](#)
- invalid login attempts [4-5](#)
- quality of service [2-12](#)
- recovering the system [6-1](#)
- recovery caveats [6-4](#)
- recovery scenarios [6-4](#)
 - communications are down [6-8](#)
 - network is down [6-8](#)
 - server and RMS down [6-6](#)
 - server down [6-5](#)
 - server resumes operation [6-7](#)
- reverting to a previous version [2-26](#)
- scenarios
 - incident management [3-6](#)
 - interactions [3-2](#)
 - PMC user interaction [3-7](#)
- selecting channels [4-25](#)
- server status connection indicator [4-6](#)
- skin
 - caveats [5-5](#)
 - mismatch [5-5](#)
 - radio-centric caveats [5-7](#)
 - touch screen caveats [5-6](#)
- skin updates [2-21](#)
- system requirements [1-23](#)
- troubleshooting
 - application [8-1](#)
 - audio and headset issues [8-11](#)
 - audio settings [8-7](#)
 - caveats [8-29](#)
 - channel activation issues [8-25](#)
 - Cisco Security Agent [8-9](#)
 - codec misconfiguration [8-26](#)
 - coexistence [8-10](#)
 - configuration file changes [8-6](#)
 - connectivity issues [8-16](#)
 - DNS issues [8-25](#)
 - docking station [2-14](#)
 - error messages [8-29](#)
 - execution [8-2](#)
 - footswitch device [8-7](#)
 - generating a PMC installation log file [8-3](#)
 - headset [8-8](#)
 - headset issues [8-12](#)
 - high latency, low bandwidth links [8-24](#)
 - microphone [8-9](#)
 - multicast connections [8-21](#)
 - offline mode [8-23](#)
 - one-way audio [8-11](#)
 - one-way audio issues [8-12](#)
 - optional settings menu [8-6](#)
 - publisher error [8-15](#)
 - QoS Packet Scheduler [8-20](#)
 - resolving IP address changes [8-13](#)
 - right-to-left and double-byte language support [8-27](#)
 - RMS connectivity [8-23](#)

- satellite connectivity [8-24](#)
- server administration GUI access issues [8-15](#)
- using an encrypted file system [8-5](#)
- voice quality [8-14](#)
- VPN issues [8-16](#)
- Windows XP firewall [8-19](#)
- winsock corruption [8-22](#)
- uninstalling the application [2-27](#)
- upgrades between major releases [2-16](#)
- upgrading the application
 - forced upgrades [2-22](#)
 - messages [2-23](#)
 - optional upgrades [2-22](#)
 - process [2-16](#)
 - types of upgrades [2-22](#)
- usage guidelines [4-2](#)
- USB devices
 - focus [4-21](#)
 - footswitch [4-21](#)
- user privileges [3-18](#)
- using the logs [7-1](#)
- using the optional settings [5-16](#)
- version number management [2-18](#)
- voice quality tips [2-11](#)
- voice replay [4-39](#)
- PMC ID [1-26](#)
- PMC installation caveats [2-3](#)
- PTT latch [1-20](#)
- Push-to-Talk Management Center

See PMC

Q

quality of service [2-12](#)

R

radio

- changing frequencies [4-33](#)
- channels [3-14](#)
- channel selector buttons [4-33](#)
- control functions [4-33](#)
- frequencies [3-12](#)
- momentary signaling tones [4-34](#)
- momentary tone controls [4-34](#)
- stateful controls [4-33](#)
- stateful control sequences [4-33](#)
- stateful control sequences display requirements [4-34](#)
- radio-centric skin caveats [5-7](#)
- recovery scenarios [6-4](#)
- remote connection [3-21](#)
- reordering channels [4-28](#)
- reverting to a previous version of the PMC [2-26](#)
- right-to-left language support [8-27](#)
- RMS

- channel interaction [4-11](#)
- connectivity [4-45](#)
- description [1-5](#)

- entries [4-8](#)
- IP address [4-45](#)
- PMC connectivity to the RMS [8-11](#)
- SIP-based connectivity [8-25](#)
- troubleshooting connectivity issues [8-23](#)

router media service

See RMS

S

- satellite connectivity [5-14](#)
- scenarios [3-2](#)
- secure channel indicator [3-17](#)
- selecting channels [4-25](#)
- server
 - commands [3-9](#)
 - connection status indicator [4-6](#)
 - dynamic configuration [4-15](#)
 - location support [3-20](#)
 - role [3-8](#)
- server administration GUI access issues [8-15](#)
- server commands
 - channel list [3-10](#)
 - disable channel [3-10](#)
 - disable user [3-10](#)
 - mute user [3-10](#)
 - retrieve logs [3-10](#)
 - set logging level [3-10](#)
- server connection status indicator [4-6](#)

- server-PMC login sequence [4-6](#)
- SIP-based connection
 - connection failure [8-26](#)
 - maximum allowable voice streams [3-21](#)
 - remote connection [3-21](#)
 - visual indicator for connection failures [3-21](#)
- skin caveats [5-5](#)
- skin mismatch [5-5](#)
- sorting channels [4-28](#)
- supported codecs [3-24](#)
- supported features [3-11](#)
- supported user roles [1-6](#)
- system administrator role [1-7](#)
- system interactions [1-25](#)
- system recovery [6-1](#)
- system recovery caveats [6-4](#)

T

- TAC Case Collection Tool [8-14](#)
- tips
 - login caveats [4-4](#)
 - optimizing your audio on the PMC [2-7](#)
 - password caveats [4-5](#)
 - PMC connectivity [4-3](#)
 - using the PMC [4-2](#)
 - using the PMC in offline mode [4-7](#)
 - voice quality [2-11](#)
- tone-controlled radio channels

- caveats [4-36](#)
 - changing frequencies [4-33](#)
 - channel selector buttons [4-33, 4-35](#)
 - control functions [4-33](#)
 - description [3-14](#)
 - momentary signaling tones [4-34](#)
 - momentary tone controls [4-34](#)
 - stateful controls [4-34](#)
 - stateful control sequences [4-33](#)
 - stateful control sequences display requirements [4-34](#)
 - using [4-32](#)
 - touch screen skin caveats [5-6](#)
 - traffic activity indicators [4-42](#)
 - transmitting DTMF tones [4-24](#)
 - troubleshooting the PMC application [8-1](#)
 - truncating
 - channel names [3-16](#)
 - location names [3-20](#)
- ## U
-
- unicast
 - communications [3-19](#)
 - connection [3-21](#)
 - uninstalling the PMC application [2-27](#)
 - updating the PMC application [2-22](#)
 - upgrades between major releases [2-16](#)
 - upgrading the PMC
 - optional upgrade [2-23](#)
 - required upgrade [2-24](#)
 - types of upgrades [2-22](#)
 - upgrade management [2-22](#)
 - usage guidelines [4-2](#)
 - USB devices [4-21](#)
 - user channel activity interaction [4-44](#)
 - user names [4-9](#)
 - user permissions
 - advanced PMC permissions [3-19](#)
 - allow latch [3-19](#)
 - disable audio [3-19](#)
 - listen-only [3-19](#)
 - user privileges [3-18](#)
 - user role [1-8](#)
 - using a docking station [2-14](#)
 - using PMC end-user features [4-20](#)
 - using the headset [2-8](#)
 - using the latch functionality [4-17](#)
 - using the microphone [2-9](#)
 - using the PMC buttons [1-9, 4-13](#)
 - using USB devices with keyboard mapping [4-21](#)
- ## V
-
- VAD [5-12](#)
 - version compatibility [2-17](#)
 - version number management [2-18](#)
 - Virtual Talk Groups
 - See* VTGs

visual indicators

- connectivity status for SIP-based remote connections [3-21](#)

- server connectivity status [4-6](#)

voice activity detection

- See* VAD

voice quality

- issues [8-14](#)

- tips [2-11](#)

voice replay

- caveats [4-40](#)

- using [4-39](#)

VTGs

- channel [1-8](#)

- server-PMC interaction [4-14](#)

- user interaction states [4-18](#)