



# Application Programming Interface (API) Reference Guide

for Cisco collaboration devices running RoomOS 11.17

All entries in the table of contents are hyperlinks that take you to the corresponding chapter. To go between the main sections, you can use the buttons in the top menu bar.



This guide is mainly aimed at developers and integrators. It introduces the Application Programming Interface (API) of devices running RoomOS software, and serves as the reference guide for the public API commands (xConfiguration, xCommand, and xStatus).

The guide applies both to devices registered to an on-premises service (CUCM, VCS) and to devices registered to the Webex cloud service.



The following devices are covered:

**Board series**

- Board (55/55S, 70/70S, and 85S)
- Board Pro (55 and 75)
- Board Pro G2 (55 and 75)

**Desk series**

- Desk Mini
- Desk
- Desk Pro

**Room series**

- Codec EQ  
*(incl. Room Kit EQ and Room Kit EQ PTZ 4K bundles)*
- Codec Plus  
*(incl. Room Kit Plus, Room Kit Plus PTZ 4K, Room Kit Plus Precision 60, and Room Kit Plus PTZ-12 bundles)*
- Codec Pro  
*(incl. Room Kit Pro, Room Kit Pro PTZ 4K, and Room Kit Pro Precision 60 bundles)*
- Room Bar
- Room Bar Pro
- Room Kit EQX
- Room Kit
- Room Kit Mini
- Room 55
- Room 55 Dual
- Room 70
- Room 70 G2
- Room 70 Panorama
- Room Panorama

## Table of contents

Introduction.....	3	Feedback mechanism .....	40
RoomOS software and user documentation .....	4	Feedback expressions.....	40
About the API reference guide .....	4	Terminal connections.....	41
Project Workplace .....	4	HTTP XMLAPI Authentication .....	42
On-premises registered devices.....	4	HTTP XMLAPI Session Authentication .....	42
Webex registered devices.....	4	Getting status and configurations.....	43
What's new .....	5	Sending commands and configurations .....	43
What's new .....	20	Feedback from the device over HTTP .....	44
What's new .....	20	Registering for feedback .....	44
What's new .....	20	Translating from terminal mode to XML.....	45
What's new .....	20	Dos and don'ts .....	46
About the API.....	28	xConfiguration commands.....	47
Cisco Terms and Conditions .....	29	Description of the xConfiguration commands.....	48
API fundamentals .....	30	xCommand commands.....	264
Connecting to the API.....	30	Description of the xCommand commands.....	265
SSH.....	30	xStatus commands .....	427
HTTP/HTTPS .....	30	Description of the xStatus commands .....	428
WebSocket .....	30	Command overview.....	587
RS-232 / serial connection .....	31	Supported commands matrix.....	588
Ethernet ports.....	32	Appendices.....	664
User roles .....	32	Disconnect cause types.....	665
Passphrase.....	32	User documentation on the Cisco web site .....	666
API output .....	33		
Using the command line .....	34		
API commands .....	34		
Other commands.....	34		
Command line shortcuts.....	35		
Searching.....	35		
Value types and formats.....	35		
Commands .....	36		
Configurations .....	36		
Status .....	36		
Multiline commands .....	37		
Synchronous API calls.....	38		
Events.....	39		

## Chapter 1

# Introduction

## RoomOS software and user documentation

RoomOS is the operating system that powers Cisco collaboration devices, both when the device is registered to an on-premises service (CUCM, VCS) and when it is registered to the Webex cloud service.

How to get software and where to find user documentation depend on where the device is registered. Some of the guides, including this API reference guide, applies to all devices, regardless of registration.

### About the API reference guide

This guide introduces the powerful Application Programming Interface that let's you tweak and tune a device's set-up and behavior. The guide is also a full reference guide for the public API commands (*xConfiguration*, *xCommand*, and *xStatus*; often referred to just as *xAPI commands*).

Which commands are available depend on the device type, the back-end (on-premise, cloud), and the role of the local user (admin, audit, integrator, roomcontrol, user).

To get an overview of the commands, see the [Supported commands matrix on page 588](#).

### Project Workplace

We recommend you to explore the Cisco Project Workplace to find inspiration and guidelines when preparing an office or meeting room for video conferencing:

► <https://www.cisco.com/go/projectworkplace>

### On-premises registered devices

#### Software

New versions of RoomOS for on-premises registered devices are released 3-4 times a year. You can download the software from the Cisco web site:

► <https://software.cisco.com/download/home>

#### Release notes

We recommend reading the software release notes (RoomOS 11) before you upgrade your devices.

► <https://www.cisco.com/c/en/us/support/collaboration-endpoints/desktop-collaboration-experience-dx600-series/products-release-notes-list.html>

► <https://www.cisco.com/c/en/us/support/collaboration-endpoints/spark-room-kit-series/products-release-notes-list.html>

► <https://www.cisco.com/c/en/us/support/collaboration-endpoints/spark-board/products-release-notes-list.html>

#### Other documentation

We also recommend that you visit the Cisco web site regularly to find the most recent version of this API guide, as well as other documentation for your devices.

► <https://www.cisco.com/go/board-docs> (Board series)

► <https://www.cisco.com/go/desk-docs> (Desk series)

► <https://www.cisco.com/go/room-docs> (Room series)

To find the API guides, click [Documentation](#) and look for [Reference > Command References](#).

See [User documentation on the Cisco web site navigation guidelines](#) in the appendix.

### Webex registered devices

#### Software

New versions of RoomOS for Webex cloud registered devices are released monthly. Software is automatically installed on the devices as set up in Control Hub for your organization.

#### Release notes

To find what's new in the latest version of the Webex deployment, we recommend you to read *What's new in RoomOS devices* on Webex Help Center.

► <https://help.webex.com/article/6ger7db/>

In this article you also find an overview of previously released features, and some details about features that are planned to be released soon.

#### Other documentation

For more information about devices that are registered to the Webex cloud service, go to the Webex Help Center:

► <https://help.webex.com>

Note that the API guide and other guides that cover both on-premises and Webex registered devices, are on the Cisco web site, as described for *On-premises registered devices*.

## What's new

This chapter provides an overview of new features and improvements, and lists the new, changed, and removed device configurations, commands, and statuses. For more details, we recommend reading the software release notes (RoomOS 11).

### New features and improvements in RoomOS 11.17

#### Networked standby for Board Pro

Networked standby is already supported for most of the products, this is now added to the Board Pro

#### Select USB Mode

Some laptops do not support video bulk transfer over USB3. Since our products use bulk mode video streaming, using some USB-C cables with USB3 can cause intermittent video streaming issues on these laptops.

To address this, we have introduced a new configuration feature that allows users to switch between USB2 and USB3 modes in such situations.

#### Set maximum resolution

The "xConfiguration Video Input Connector N PreferredResolution" setting softly enforces the preferred resolution, allowing the source to override it and choose a higher resolution if needed.

With the introduction of "xConfiguration Video Input Connector N MaxResolution," a hard limit is set by removing all resolutions above the specified value from the codec input EDID.

To change the Video Input MaxResolution, you need to specify the input and select the MaxResolution. Note that the available values depend on what is supported for that input.

#### Check-in and check-out of meetings

This feature allows room resources to be freed up if the host does not "Check-in" when the meeting starts and within the set timeout.

The meeting booking will be removed and free up the space for others to use. This is a feature that helps to avoid unspent resources being blocked.

## xConfiguration changes in RoomOS 11.17

## New Configurations

Audio Input Ethernet [1..3] Channel [1..8] Zone *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Room Bar Pro, Room Kit EQX)*

Audio Input Ethernet [1..6] Channel [1..8] Zone *(Room Panorama, Room 70 Panorama)*

Audio Input Ethernet [1..8] Channel [1..8] Zone *(Codec Pro, Room 70 G2)*

Audio Input Microphone [1..3] Zone *(Codec EQ, Room Kit EQX)*

Audio Input Microphone [1..3] Zone *(Codec Plus, Room 55 Dual, Room 70)*

Audio Input Microphone [1..8] Zone *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Audio Input Microphone [1] Zone *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room 55, Room Bar, Room Bar Pro, Room Kit)*

Audio Input Microphone [2] Zone *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room 55, Room Bar, Room Bar Pro, Room Kit)*

Audio Input Microphone [3] Zone *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room 55, Room Bar Pro, Room Kit)*

Audio Input USBInterface [1] Zone *(Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Audio Input USBMicrophone [1] Zone *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, Cisco Desk)*

Audio Microphones NearTalkerSector Mode *(Room Bar Pro)*

Audio Microphones NearTalkerSector Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Microphones VoiceActivityDetector Mode *(All Products)*

Audio Output Ethernet [1..2] Delay DelayMs *(Room Kit EQX)*

Audio Output Ethernet [1..2] Delay Mode *(Room Kit EQX)*

Audio Output Ethernet [1..4] Delay DelayMs *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Audio Output Ethernet [1..4] Delay Mode *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Audio Output Ethernet [1] Delay DelayMs *(Codec EQ)*

Audio Output Ethernet [1] Delay Mode *(Codec EQ)*

Bookings AdhocBooking BookingTimeout *(All Products)*

Bookings AdhocBooking Enabled *(All Products)*

Bookings AllowDecline *(All Products)*

Bookings CheckIn Enabled *(All Products)*

Bookings CheckIn WindowDuration *(All products)*

Bookings CheckIn WindowDuration *(Room 70 Single)*

BYOD QRCodePairing *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Cameras Camera [1..7] AssignedSerialNumber *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Backlight DefaultMode *(Codec EQ, Codec Plus, Room Kit EQX, Room 55 Dual, Room 70)*

Cameras Camera [1..7] Brightness Algorithm *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Brightness DefaultLevel *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Brightness Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Flip *(Codec EQ, Codec Plus, Room Kit EQX, Room 55 Dual, Room 70)*

Cameras Camera [1..7] Focus Mode *(Codec Plus, Codec EQ, Room Kit EQX, Room 55 Dual, Room 70)*

Cameras Camera [1..7] Gamma Level *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*

Cameras Camera [1..7] Gamma Mode *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*

Cameras Camera [1..7] IrCutFilter Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] IrCutFilter Threshold *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Mirror *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] VideoFormat *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras Camera [1..7] Whitebalance Level *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*

Cameras Camera [1..7] Whitebalance Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

Cameras SpeakerTrack ZoomRange MaxZoomFactor *(Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini)*

Files Services Webex Spaces *(All Products)*

NetworkServices SMTP From *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Mode *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Password *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Port *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Security *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Server *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SMTP Username *(Codec EQ, Codec Pro, Room Bar Pro)*

NetworkServices SSH KeyExchangeAlgorithms AllowLegacy *(All Products)*

RoomAnalytics RoomInUse InCall *(All Products)*

RoomAnalytics RoomInUse LocalUsage *(All Products)*

RTP Audio Ports Range Webex Start *(All Products)*

RTP Audio Ports Range Webex Stop *(All Products)*

RTP Ports Range Start *(All Products)*

RTP Ports Range Stop *(All Products)*

RTP Video Ports Range Start *(All Products)*

RTP Video Ports Range Stop *(All Products)*

RTP Video Ports Range Webex Start *(All Products)*

RTP Video Ports Range Webex Stop *(All Products)*

Sensors Radar Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Sensors Ultrasound Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Desk Pro, Room Bar Pro, Cisco Desk)*

Sensors Ultrasound Mode *(Board, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama)*

Standby Level Networked Delay *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Standby Level Networked Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

SystemUnit Hardware USBC [1] Mode *(Codec EQ, Desk Mini, Room Bar, Room Bar Pro, Room Kit EQX, Cisco Desk)*

SystemUnit SoftwareUpgrade Provider *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

UserInterface Features Call AudioMute *(All Products)*

UserInterface LiveAnnotation Enabled *(All Products)*

UserInterface ScreenLock Policy *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama)*

UserInterface ScreenLock Workspace Allowed *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama)*

UserInterface Whiteboard Deletion *(All Products)*

UserInterface Whiteboard ShareInCall *(All Products)*

Video Input Connector [1] MaxResolution *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [1] MaxResolution *(Codec EQ, Room Kit EQX)*

Video Input Connector [1] MaxResolution *(Codec Plus, Room 55 Dual, Room 70)*

Video Input Connector [2] MaxResolution *(Codec Pro, Desk Mini, Room 70 G2, Room Panorama, Room 70 Panorama, Cisco Desk)*

Video Input Connector [2] MaxResolution *(Board, Codec EQ, Codec Plus, Room 55, Room 55 Dual, Room 70, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini)*

Video Input Connector [2] MaxResolution *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro)*

Video Input Connector [3] MaxResolution *(Board Pro 55, Board Pro 75, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Video Input Connector [3] MaxResolution *(Board Pro G2 55, Board Pro G2 75, Desk Pro)*

Video Input Connector [3] MaxResolution *(Cisco Desk)*

Video Input Connector [4] MaxResolution *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Video Input Connector [5] MaxResolution *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Miracast Quality *(All Products)*

WebEngine Certificates RevocationChecks NetworkAccess *(All Products)*

## Configurations that are modified

Audio Microphones BeamMix Inputs *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Audio Microphones BeamMix Inputs *(Board Pro 55, Board Pro 75)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

CallHistory Recents DisplayName *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Connectivity *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning CUCM CallManagementRecords CallDiagnostics *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning ExternalManager Address *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning ExternalManager AlternateAddress *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning ExternalManager Domain *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning ExternalManager Path *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning ExternalManager Protocol *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning LoginName *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Mode *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Password *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning TlsVerify *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning WebexEdge *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP ANAT *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Authentication Password *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Authentication UserName *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP DefaultTransport *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP DisplayName *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Ice DefaultCandidate *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Ice Mode *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP ListenPort *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP MinimumTLSVersion *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Proxy [1..4] Address *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP TlsVerify *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Turn Password *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Turn Server *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Turn UserName *(All Products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr



SIP URI *(All Products)***OLD:** Include\_For\_Extension:**NEW:** Include\_For\_Extension: mtrTime OfficeHours OutsideOfficeHours Standby AutoWakeup *(All Products)***OLD:** Include\_For\_Extension:**NEW:** Include\_For\_Extension: mtrUserInterface ContactInfo Type *(All Products)***OLD:** Auto/DisplayName/E164Alias/H323Id/IPv4/IPv6/None/SipUri/SystemName**NEW:** Auto/DisplayName/E164Alias/H323Id/IPv4/IPv6/None/SipUri/SystemName/  
WebexDisplayNameVideo Input Connector [1] Name *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)***OLD:** Default: [1]: Camera 1; [2]: Camera 2; [3]: PC 1 (HDMI); [4]: Camera 2; [5]: PC 1 (HDMI); [6]: Camera 2; [7]: PC 1 (HDMI); [8]: Camera 2; [9]: PC 1 (HDMI); [10]: Camera 2; [11]: PC 1 (HDMI); [12]: Camera 2; [13]: PC 1 (HDMI);**NEW:** Default: [1]: Camera 1; [2]: Camera 2; [3]: Camera 2; [4]: Camera 2; [5]: Camera 2; [6]: Camera 2; [7]: Camera 2;Video Output Connector [1] HDCPPolicy *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)***OLD:** Default: [1]: On; [2]: On; [3]: Off; [4]: On; [5]: Off; [6]: On; [7]: Off;**NEW:** Default: OnVideo Output Connector [1] HDCPPolicy *(Codec Plus, Room 55 Dual, Room 70 Dual)***OLD:** Default: [1]: On; [2]: Off; [3]: Off;**NEW:** Default: OnWebEngine Features GpuRasterization *(All Products)***OLD:** Include\_For\_Extension:**NEW:** Include\_For\_Extension: mtrWebEngine MinimumTLSVersion *(All Products)***OLD:** Include\_For\_Extension:**NEW:** Include\_For\_Extension: mtrWebEngine UseHttpProxy *(All Products)***OLD:** Include\_For\_Extension:**NEW:** Include\_For\_Extension: mtr

## Configurations that are removed

Cameras Camera [1..3] AssignedSerialNumber *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Backlight DefaultMode *(Codec EQ, Codec Plus, Room Kit EQX, Room 55 Dual, Room 70)*Cameras Camera [1..3] Brightness Algorithm *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Brightness DefaultLevel *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Brightness Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Flip *(Codec EQ, Codec Plus, Room Kit EQX, Room 55 Dual, Room 70)*Cameras Camera [1..3] Focus Mode *(Codec EQ, Room Kit EQX, Codec Plus)*Cameras Camera [1..3] Focus Mode *(Room 55 Dual, Room 70)*Cameras Camera [1..3] Gamma Level *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*Cameras Camera [1..3] Gamma Mode *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*Cameras Camera [1..3] IrCutFilter Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] IrCutFilter Threshold *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Mirror *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] VideoFormat *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras Camera [1..3] Whitebalance Level *(Codec EQ, Room Kit EQX, Codec Plus, Room 55 Dual, Room 70)*Cameras Camera [1..3] Whitebalance Mode *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*Cameras SpeakerTrack ZoomRange *(Codec EQ, Codec Plus, Codec Pro, Room Kit EQX, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*UserInterface CameraControl LensControl Enabled *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*Video Input Connector [5] CameraControl Camerald *(Codec EQ, Room Kit EQX)*Video Input Connector [5] CameraControl Mode *(Codec EQ, Room Kit EQX)*Video Input Connector [5] CEC Mode *(Codec EQ, Room Kit EQX)*Video Input Connector [5] HDCP Mode *(Codec EQ, Room Kit EQX)*Video Input Connector [5] InputSourceType *(Codec EQ, Room Kit EQX)*Video Input Connector [5] Name *(Codec EQ, Room Kit EQX)*Video Input Connector [5] PreferredResolution *(Codec EQ, Room Kit EQX)*Video Input Connector [5] PresentationSelection *(Codec EQ, Room Kit EQX)*Video Input Connector [5] Quality *(Codec EQ, Room Kit EQX)*Video Input Connector [5] RGBQuantizationRange *(Codec EQ, Room Kit EQX)*Video Input Connector [5] Visibility *(Codec EQ, Room Kit EQX)*

- Video Input Connector [6] CameraControl CameraId *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] CameraControl Mode *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] CEC Mode *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] HDCP Mode *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] InputSourceType *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] Name *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] PreferredResolution *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] PresentationSelection *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] Quality *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] RGBQuantizationRange *(Codec EQ, Room Kit EQX)*
- Video Input Connector [6] Visibility *(Codec EQ, Room Kit EQX)*
- Webex Meetings AudioNotifications *(All Products)*

## xCommand changes in RoomOS 11.17

### New Commands

- Cameras SpeakerTrack Calibration Diagnostics Start *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- Cameras SpeakerTrack Calibration Diagnostics Stop *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- Conference Participant TransferRole *(All products)*
- Conference Participant TransferRole *(Room 70 Single)*
- Conference SimultaneousInterpretation SelectLanguage *(All products)*
- Conference SimultaneousInterpretation SetMixer *(All products)*
- Security Certificates CSR Create *(All products)*
- Security Certificates CSR Link *(All products)*
- UserInterface ScreenLock AdminInitiateRecovery *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama)*
- Video Layout StageParticipants Reset *(All products)*
- Video Layout StageParticipants Set ById *(All products)*
- Video Layout StageParticipants Set ByName *(All products)*
- WebEngine AllowInsecureHttps Add *(All products)*
- WebEngine AllowInsecureHttps List *(All products)*
- WebEngine AllowInsecureHttps Remove *(All products)*
- WebEngine AllowInsecureHttps RemoveAll *(All products)*
- Whiteboard Email Cancel *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro)*
- Whiteboard Email Send *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro)*

### xCommands that are removed

None.

### Commands that are modified

- Audio Diagnostics Advanced Run *(All products)*
  - OLD: MeasurementLength: Integer (1..100)
  - NEW: MeasurementLength: Integer (1..10)
- Audio Diagnostics Advanced Run *(Room 70 Single)*
  - OLD: MeasurementLength: Integer (1..100)
  - NEW: MeasurementLength: Integer (1..10)
- Audio Diagnostics MeasureDelay *(All products)*
  - OLD: MeasurementLength: Default: 6
  - NEW: MeasurementLength: Default: 3
  - OLD: MeasurementLength: Integer (1..100)
  - NEW: MeasurementLength: Integer (1..10)
  - OLD: Output: Default: HDMI
  - NEW: Output: Default: All
- Audio Diagnostics MeasureDelay *(Room 70 Single)*
  - OLD: MeasurementLength: Default: 6
  - NEW: MeasurementLength: Default: 3
  - OLD: MeasurementLength: Integer (1..100)
  - NEW: MeasurementLength: Integer (1..10)
  - OLD: Output: Default: HDMI
  - NEW: Output: Default: All
- Audio LocalInput Ethernet Deregister *(Board Pro G2 55, Board Pro G2 75)*
  - OLD: ConnectorId: Integer (1..3)
  - NEW: ConnectorId: Integer (1..8)
- Audio LocalInput Ethernet Deregister *(Board Pro 55, Board Pro 75)*
  - OLD: ConnectorId: Integer (1..3)
  - NEW: ConnectorId: Integer (1..8)
- Audio LocalInput Ethernet Register *(Board Pro G2 55, Board Pro G2 75)*
  - OLD: ConnectorId: Integer (1..3)
  - NEW: ConnectorId: Integer (1..8)
- Audio LocalInput Ethernet Register *(Board Pro 55, Board Pro 75)*
  - OLD: ConnectorId: Integer (1..3)
  - NEW: ConnectorId: Integer (1..8)
- Audio Sound Play *(All products)*

Sound: Removed from valuespace: RecordingStart/WebexAssistantCapturingNotes

Audio Sound Play (*Room 70 Single*)

Sound: Removed from valuespace: RecordingStart/WebexAssistantCapturingNotes

Audio VuMeter Start (*Board Pro G2 55*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Audio VuMeter Start (*Board Pro G2 75*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Audio VuMeter Start (*Board Pro 55*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Audio VuMeter Start (*Board Pro 75*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Audio VuMeter Stop (*Board Pro G2 55, Board Pro G2 75, Board Pro 55*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Audio VuMeter Stop (*Board Pro 75*)

OLD: ConnectorType: MicArray/Microphone/USBMicrophone

NEW: ConnectorType: Ethernet/MicArray/Microphone/USBMicrophone

Bookings Respond (*All products*)

NEW: Comment: String (1, 2048)

Call Accept (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Call Reject (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

MicrosoftTeams Reset (*Board Pro 55, Board Pro 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Kit EQX*)

OLD: IncludePeripherals: Default: <Not specified>

NEW: IncludePeripherals: Default: True

OLD: IncludePeripherals: Required: Required parameter

NEW: IncludePeripherals: Required: Optional parameter

MicrosoftTeams Reset (*Board Pro G2 55, Board Pro G2 75, Room Bar Pro*)

OLD: IncludePeripherals: Default: <Not specified>

NEW: IncludePeripherals: Default: True

OLD: IncludePeripherals: Required: Required parameter

NEW: IncludePeripherals: Required: Optional parameter

Provisioning CompleteUpgrade (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning CUCM ExtensionMobility Login (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning CUCM ExtensionMobility Logout (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning RoomType Activate (*Codec EQ, Codec Pro, Room 70 G2*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning RoomType Activate (*Room Bar Pro*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning RoomType Activate (*Room Kit EQX*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning RoomType Activate (*Codec Plus, Room 55 Dual, Room 70 Dual*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning RoomType Activate (*Room 70 Single*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Service Fetch (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Standby ResetHalfwakeTimer (*All products*)

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit DeveloperPreview Activate *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

SystemUnit DeveloperPreview Deactivate *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

SystemUnit OptionKey Remove *(Board Pro G2 55, Board Pro G2 75, Board Pro 55)*

**OLD:** Type: DeveloperPreview/Encryption/MultiSite/RemoteMonitoring

**NEW:** Type: AVIntegrator/DeveloperPreview/Encryption/MultiSite/RemoteMonitoring

SystemUnit OptionKey Remove *(Board Pro 75)*

**OLD:** Type: DeveloperPreview/Encryption/MultiSite/RemoteMonitoring

**NEW:** Type: AVIntegrator/DeveloperPreview/Encryption/MultiSite/RemoteMonitoring

UserInterface Branding Delete *(All products)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Delete *(Room 70 Single)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Fetch *(All products)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Fetch *(Room 70 Single)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Get *(All products)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Get *(Room 70 Single)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Updated *(All products)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Updated *(Room 70 Single)*

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Upload *(All products)*

**OLD:** CustomId: String (0, 128)

**NEW:** CustomId: String (0, 256)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface Branding Upload *(Room 70 Single)*

**OLD:** CustomId: String (0, 128)

**NEW:** CustomId: String (0, 256)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding/WorkspaceAvatar

UserInterface WebView Display *(All products)*

**NEW:** AllowInsecureHttps: False/True

UserInterface WebView Display *(Room 70 Single)*

**NEW:** AllowInsecureHttps: False/True

Video Input SetMainVideoSource *(Desk Mini, Room Kit, Room Kit Mini)*

**OLD:** SourceId: IntegerArray (1..2) [multiple 4]

**NEW:** SourceId: 1/2/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource (*Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama*)

**OLD:** SourceId: IntegerArray (1..6) [multiple 4]

**NEW:** SourceId: 1/2/3/4/5/6/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource (*Board Pro G2 55, Board Pro G2 75, Room Bar Pro*)

**OLD:** SourceId: IntegerArray (1..3) [multiple 4]

**NEW:** SourceId: 1/2/3/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource (*Board Pro 55, Board Pro 75, Codec Plus, Desk Pro, Room 55, Room 55 Dual, Room 70, Room Bar, Cisco Desk*)

**OLD:** SourceId: IntegerArray (1..3) [multiple 4]

**NEW:** SourceId: 1/2/3/AirPlay/Miracast [multiple 4]

WebEngine Logging Set (*All products*)

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

WebEngine Logging Set (*Room 70 Single*)

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

WebEngine Tracing Start (*All products*)

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

WebEngine Tracing Start (*Room 70 Single*)

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

WebEngine Tracing Stop (*All products*)

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Zoom Join (*All products*)

**NEW:** DialCode: String (0, 255)

**NEW:** Domain: String (0, 255)

## xStatus changes in RoomOS 11.17

## New Statuses

Audio Input Ethernet DiscoveredStream [n] Channels *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input Ethernet DiscoveredStream [n] MediaIP *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input Ethernet DiscoveredStream [n] Name *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input Ethernet DiscoveredStream [n] OriginIP *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input Ethernet DiscoveredStream [n] Status *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] AGC *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] Channels *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] Connector [n] *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] Direct *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] MixerMode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] Mute *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Input LocalInput [n] Name *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Microphones VoiceActivityDetector Activity *(All products)*

Audio Output Connectors Ethernet [n] DelayMs *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Room 70 G2, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Audio Output LocalOutput [n] AutoconnectRemote *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] Channels *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] Connector [n] *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] Input [n] Gain *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] Loudspeaker *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] Name *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output LocalOutput [n] VolumeControlled *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output RemoteOutput [n] CallId *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Audio Output RemoteOutput [n] Input [n] Gain *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Conference Call [n] Capabilities AdmitFromLobby *(All products)*

Conference Call [n] Capabilities DisableReactions *(All products)*

Conference Call [n] Capabilities DTMF *(All products)*

Conference Call [n] Capabilities EnableReactions *(All products)*

Conference Call [n] Capabilities EndMeeting *(All products)*

Conference Call [n] Capabilities HardMute *(All products)*

Conference Call [n] Capabilities IsModerator *(All products)*

Conference Call [n] Capabilities LockControl *(All products)*

Conference Call [n] Capabilities LowerAllHands *(All products)*

Conference Call [n] Capabilities LowerParticipantsHand *(All products)*

Conference Call [n] Capabilities MuteAll *(All products)*

Conference Call [n] Capabilities MuteOnEntry *(All products)*

Conference Call [n] Capabilities ParticipantRequestUnmute *(All products)*

Conference Call [n] Capabilities RaiseHand *(All products)*

Conference Call [n] Capabilities Reactions *(All products)*

Conference Call [n] Capabilities Recording Pause *(All products)*

Conference Call [n] Capabilities Recording Resume *(All products)*

Conference Call [n] Capabilities Recording Stop *(All products)*

Conference Call [n] Capabilities TransferHostAndLeave *(All products)*

Conference Call [n] Capabilities UnmuteAll *(All products)*

Conference Call [n] HardMuted *(All products)*

Conference Call [n] Locked *(All products)*

Conference Call [n] RaiseHand *(All products)*

Conference Call [n] SimultaneousInterpretation Languages [n] LanguageCode *(All products)*

Conference Call [n] SimultaneousInterpretation Languages [n] LanguageName *(All products)*

Logging ExtendedLogging Mode *(All products)*

Logging ExtendedLogging PacketDump *(All products)*

Logging ExtendedLogging RenderingDump *(All products)*

MicrosoftTeams Software Version Authenticator *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams Software Version MicrosoftIntune *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams Software VersionCode Authenticator *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams Software VersionCode MicrosoftIntune *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

Network [n] IEEE8021X Reason *(All products)*

Network [n] IEEE8021X Status *(All products)*

Sensors Radar Mode *(Board Pro G2 55, Board Pro G2 75, Board Pro 55, Board Pro 75)*

SystemUnit Software OptionKeys AVIntegrator *(Board Pro G2 55, Board Pro G2 75, Board Pro 55, Board Pro 75)*

UserInterface Features Call AudioMute *(All products)*

UserInterface ScreenLock Status *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Room 55, Room 55 Dual, Room 70 Dual, Room 70 G2, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama, Room 70 Single)*

UserInterface WebView [n] ErrorDescription *(All products)*

UserInterface WebView [n] ErrorType *(All products)*

UserInterface WebView [n] HttpStatusCode *(All products)*

## Statuses that are modified

Diagnostics Message [n] Type *(All products)*

**Added to valuespace:** CheckInConfigurationPersonalProvisioning/  
CheckInHotdeskExclusivity/MiracastWiFiCoexistenceStatus/SntpServiceConfiguration/  
WebexProvisionalAccountStatus/WifiRadioQuality

**Removed from valuespace:** MiracastWiredOnlyStatus

HttpFeedback [n] Expression [n] *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

HttpFeedback [n] Format *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

HttpFeedback [n] Status *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

HttpFeedback [n] URL *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Peripherals ConnectedDevice [n] ID *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning CUCM Customization Checksum *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning CUCM ExtensionMobility Enabled *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning CUCM ExtensionMobility LastLoggedInUserId *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning CUCM ExtensionMobility LoggedIn *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning Reason *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning RoomType *(Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70 Dual, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama, Room Bar Pro, Room 70 Single)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning Server *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning Software Current CompletedAt *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

Provisioning Software Current URL *(All products)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr



Provisioning Software Current VersionId *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus LastChange *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus Message *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus Phase *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus SessionId *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus Status *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus Urgency *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus URL *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Software UpgradeStatus VersionId *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning Status *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Provisioning WebexCalling Status *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP AlternateURI Alias [n] URI *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP AlternateURI Primary URI *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Authentication *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP CallForward DisplayName *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP CallForward Mode *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP CallForward Mode *(Room 70 Single)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP CallForward URI *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Mailbox MessagesWaiting *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Mailbox URI *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Proxy [n] Address *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Proxy [n] Status *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Registration [n] Authentication *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Registration [n] Reason *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Registration [n] Status *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Registration [n] URI *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Secure *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SIP Verified *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Standby Level *(Board Pro 55, Board Pro 75, Codec EQ, Desk Mini, Room Bar, Room Kit EQX, Room Bar Pro, Board Pro G2 55, Board Pro G2 75, Cisco Desk)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit BroadcastName *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit State CameraLid *(Desk Mini, Desk Pro, Cisco Desk)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit State NumberOfActiveCalls *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit State NumberOfInProgressCalls *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit State NumberOfSuspendedCalls *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

SystemUnit State Subsystem Application *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

Video Input Connector [n] SignalState *(All products)*

OLD: NotFound/OK/Unknown/Unstable/Unsupported

NEW: DetectingFormat/NotFound/OK/Unknown/Unstable/Unsupported

WebEngine LogLevel *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

WebEngine LogLevelVerbosity *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

WebEngine Tracing CustomCategories *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

WebEngine Tracing Duration *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

WebEngine Tracing Mode *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

WebEngine Tracing Systrace *(All products)*

OLD: Include\_For\_Extension:

NEW: Include\_For\_Extension: mtr

## Statuses that are removed

MicrosoftTeams Calling InCall *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70 Dual, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk, Room 70 Single)*

MicrosoftTeams HardwareAccelerator Decoder [n] CroppedHeight *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] CroppedWidth *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] Fps *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] FrameCount *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] Height *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] OutputMode *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Decoder [n] Width *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] Fps *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] FrameCount *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] Height *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] InputMode *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams HardwareAccelerator Encoder [n] Width *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Pairing Active *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70 Dual, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk, Room 70 Single)*

MicrosoftTeams Software Version Android *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software Version CompanyPortalApp *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software Version OEMAgent *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software Version TeamsAdminAgent *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software Version TeamsApp *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software VersionCode CompanyPortalApp *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software VersionCode OEMAgent *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software VersionCode TeamsAdminAgent *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams Software VersionCode TeamsApp *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk)*

MicrosoftTeams User SignedIn *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70 Dual, Room Kit, Room Kit Mini, Room Panorama, Room 70 Panorama, Cisco Desk, Room 70 Single)*

## What's new

This chapter provides an overview of new features and improvements, and lists the new, changed, and removed device configurations, commands, and statuses. For more details, we recommend reading the software release notes (RoomOS 11).

### New features and improvements in RoomOS 11.14

#### New products

- Cisco Board Pro G2

#### Custom buttons in control panel *(All products)*

The UI Extensions are extended by allowing custom buttons on the control panel. You set up these buttons in the UI extensions editor just like other custom buttons.

#### Support third-party touch screens

*(Codec EQ, Codec Pro, Room Bar, and Room Bar Pro)*

By supporting a third-party touch screen, we introduce whiteboarding to devices that didn't have such capabilities before. You get functionality similar to the Board experience. You must connect the touch screen both to HDMI and USB to get touch functionality.

Currently, support is limited to one touch screen per device, and additional screens cannot be connected alongside the touch screen.

#### Dual screen support *(Desk Pro and Board Pro)*

You can connect a secondary screen to the device's HDMI output connector. This gives more screen real-estate and flexibility in meetings. It is possible to configure the extra display for mirroring, content or additional participants.

#### More digital microphones

*(Board Pro, Codec Pro, Room 70 G2)*

Board Pro:

- Up to 3 × Cisco Table Microphone Pro

Codec Pro, Room 70 G2:

- Up to 8 × Cisco Table Microphone Pro

#### Control of third-party peripherals over serial port interface

*(All products except Board, Room 55 Dual, Room 70, Room 70 G2, and Room 70 Panorama)*

You can set up your device to control third-party peripherals, such as displays, video switches, projectors, or other, through a serial connection. There is a separate set of configurations and commands that apply to outbound serial control.

You must connect to a USB-A port on the device using a USB-to-Serial dongle. We have mainly tested this feature using dongles with the FTDI chipsets, but other USB-to-Serial dongles should also work.

#### Management of paired Room Navigators

*(All products)*

You can enable management of a paired Room Navigator with the command `xCommand Peripherals DeviceManagement Enable`.

Once enabled, you can create users, and access the Room Navigator using its IP address through SSH or HTTPS (web UI) for additional management.

This may be useful for updating 802.1x certificates or when other management or integration needs arise.

#### Support for controlling multiple lenses in the camera control menu

*(Board Pro, Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

With the standard camera controls, you can now choose specific lenses to set up presets or check various views in self-view. This selection feature is available if your camera, like the Cisco Quad Camera, has multiple lenses.

#### Diagnostics for Web Views when facing out of memory issues *(All products)*

This feature is solely for diagnostics purposes and aids in pinpointing situations where the web app consumes excessive memory, leading to crashes in the integrated web engine. A dismissible diagnostic message will appear when this occurs.

#### Macro Engine update *(All products)*

We've updated the Macro Framework to utilize QuickJS as its default engine, replacing DukTape.

#### Easier deployment of AirPlay *(All products)*

We've simplified the AirPlay configuration for administrators working with enterprise networks.

#### Cross-view *(Codec EQ and Room Kit EQX)*

Cross-view is an AI-driven feature that gives you the best view of your meeting. By analyzing the room activity, recognizing speakers and tracking where people are facing, the device automatically chooses the best camera angle throughout the meeting. This way, remote participants can see facial expressions and are included even when the discussion is happening across the table.

You need a Quad Camera and two 4K PTZ cameras, minimum 3 Table Microphone Pro's and the AV integrator license.

## xConfiguration changes in RoomOS 11.14

### New xConfigurations

Audio Input Ethernet [1..3] Channel [1..8] Level *(Board Pro)*

Audio Input Ethernet [1..3] Channel [1..8] Mode *(Board Pro)*

Audio Input Ethernet [1..3] Channel [1..8] Pan *(Board Pro)*

Audio Input Ethernet [1..3] EchoControl Mode *(Board Pro)*

Audio Input Ethernet [1..3] EchoControl NoiseReduction *(Board Pro)*

Audio Input Ethernet [1..3] Equalizer ID *(Board Pro)*

Audio Input Ethernet [1..3] Equalizer Mode *(Board Pro)*

Audio Input Ethernet [1..3] Mode *(Board Pro)*

Audio Input Ethernet [5..8] Channel [1..8] Level *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] Channel [1..8] Mode *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] Channel [1..8] Pan *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] EchoControl Mode *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] Equalizer ID *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] Equalizer Mode *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] Mode *(Codec Pro, Room 70 G2)*

Audio Input Ethernet [5..8] EchoControl NoiseReduction *(Codec Pro, Room 70 G2)*

Audio Output Ethernet [1] Mode *(Board Pro)*

Audio USB VolumeControl Capture Mode *(All products)*

Audio USB VolumeControl Capture Value *(All products)*

Audio USB VolumeControl Playback Mode *(All products)*

Audio USB VolumeControl Playback Value *(All products)*

Cameras PresenterTrack CameraPosition Pan *(Room Bar Pro)*

Cameras PresenterTrack CameraPosition Tilt *(Room Bar Pro)*

Cameras PresenterTrack CameraPosition Zoom *(Room Bar Pro)*

Cameras PresenterTrack Connector *(Room Bar Pro)*

Cameras PresenterTrack Enabled *(Room Bar Pro)*

Cameras PresenterTrack PresenterDetectedStatus *(Room Bar Pro)*

Cameras PresenterTrack TriggerZone *(Room Bar Pro)*

Conference Diagnostics StreamStatusOverlay *(All products)*

Conference Webex CallProtocollPStack *(All products)*

Macros QuickJSEngine *(All products)*

Macros EvaluateTranspiled *(All products)*

MicrosoftTeams Diagnostics ShowUnsupportedConsoleNotification *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

RoomScheduler BookingTimeout *(All products)*

SerialPort Outbound Mode *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama)*

SerialPort Outbound Port [1] BaudRate *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama)*

SerialPort Outbound Port [1] Description *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama)*

SerialPort Outbound Port [1] Parity *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama)*

Standby Signage InteractionMode *(Codec EQ, Codec Pro, Room Bar Pro)*

SystemUnit Extension MouseSupport *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

UserInterface Bookings AdhocBooking DefaultTitle *(All products)*

UserInterface CameraControl LensControl Enabled *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

UserInterface Features Files Start *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro, Room Kit Mini)*

UserInterface Features Whiteboard Start *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro, Room Kit Mini)*

UserInterface InstantMeeting Invite *(All products)*

UserInterface RoomScheduler State Available Color *(All products)*

UserInterface RoomScheduler State Busy Color *(All products)*

UserInterface RoomScheduler State Pending Color *(All products)*

UserManagement LDAP BindDN *(All products)*

UserManagement LDAP BindPassword *(All products)*

UserManagement LDAP MemberAttribute *(All products)*

Video Input CameraConfigMode *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Video Output Connector [n] ContentType *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk Pro, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*

WebEngine Features LocalWebAppManagement *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro, Room Kit Mini)*

WebEngine Features Peripherals AudioOutput *(All products)*

WebEngine Features Peripherals WebGL *(All products)*

Webex CloudProximity ManualPairing *(All products)*

## xConfigurations that are removed

Webex CloudProximity Mode *(All products)*

Webex Meetings RoomObservedByHost *(All products)*

## xConfigurations that are modified

RoomAnalytics PeoplePresenceDetector *(All products)*

**OLD:** Default: Off

**NEW:** Default: On

Video Input Connector [1] InputSourceType *(Room Bar Pro)*

**OLD:** PC/camera/document\_camera/mediaplayer/other/whiteboard

**NEW:** camera

Video Input Connector [1] Visibility *(Room Bar Pro)*

**OLD:** Always/IfSignal/Never

**NEW:** Never

Video Input Connector [2] Visibility *(Room Bar Pro)*

**OLD:** Default: IfSignal

**NEW:** Default: Always

Video Input Connector [3] Visibility *(Room Bar Pro)*

**OLD:** Default: IfSignal

**NEW:** Default: Always

Video Input Connector [2..3] PreferredResolution *(Room Bar, Room Bar Pro)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_30/3840\_1600\_30/3840\_1620\_30

Video Input Connector [3..5] PreferredResolution *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_30/3840\_1600\_30/3840\_1620\_30

Video Input Connector [1..4] PreferredResolution *(Codec EQ, Room Kit EQX)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_30/3840\_1600\_30/3840\_1620\_30

Video Output Connector [1..2] Resolution *(Codec Plus, Codec Pro, Room Bar, Room Kit, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60

Video Output Connector [1..3] Resolution *(Codec EQ, Room Kit EQX, Room Bar Pro)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60

Video Output Connector [1] Resolution *(Room Kit Mini)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60

Video Output Connector [2] Resolution *(Board Pro, Desk Pro, Room 55)*

**Added to valuespace:** 2560\_1080\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60

## xCommand changes in RoomOS 11.14

### New xCommands

Audio LocalInput Ethernet Deregister *(Board Pro)*

Audio LocalInput Ethernet PacketStatisticsReset *(Board Pro)*

Audio LocalInput Ethernet Register *(Board Pro)*

Audio LocalOutput Ethernet Deregister *(Board Pro)*

Audio LocalOutput Ethernet Register *(Board Pro)*

Camera InstallationTilt Ramp *(Room Bar Pro)*

Cameras PresenterTrack ClearPosition *(Room Bar Pro)*

Cameras PresenterTrack Set *(Room Bar Pro)*

Cameras PresenterTrack StorePosition *(Room Bar Pro)*

Cameras SpeakerTrack Calibration Diagnostics Start *(Codec EQ, Room Kit EQX)*

Cameras SpeakerTrack Calibration Diagnostics Stop *(Codec EQ, Room Kit EQX)*

Cameras SpeakerTrack ViewLimits Activate *(Board Pro, Room Bar, Room Bar Pro)*

Cameras SpeakerTrack ViewLimits Deactivate *(Board Pro, Room Bar, Room Bar Pro)*

Cameras SpeakerTrack ViewLimits StorePosition *(Board Pro, Room Bar, Room Bar Pro)*

Conference Participant MoveToLobby *(All products)*

MicrosoftTeams Install *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams List *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams Reset *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

MicrosoftTeams SoftwareUpgrade *(Board Pro, Codec EQ, Codec Pro, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX)*

Peripherals DeviceManagement Disable *(All products)*

Peripherals DeviceManagement Enable *(All products)*

Peripherals UserManagement User Add *(All products)*

Peripherals UserManagement User Delete *(All products)*

Peripherals UserManagement User Get *(All products)*

Peripherals UserManagement User List *(All products)*

Peripherals UserManagement User Modify *(All products)*

Peripherals UserManagement User Passphrase Set *(All products)*

Peripherals UserManagement User Unblock *(All products)*

Provisioning RoomType Activate *(Room Bar Pro)*

SerialPort PeripheralControl Send *(Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama)*

Whiteboard Email Cancel *(Board, Board Pro, Desk, Desk Mini, Desk Pro, Room Kit Mini)*

Whiteboard Email Send *(Board, Board Pro, Desk, Desk Mini, Desk Pro, Room Kit Mini)*

### xCommands that are removed

None.

### xCommands that are modified

Audio LocalInput Ethernet Deregister *(Codec Pro, Room 70 G2)*

**OLD:** ConnectorId: Integer (1..4)

**NEW:** ConnectorId: Integer (1..8)

Audio LocalInput Ethernet Deregister *(Room Bar Pro)*

**OLD:** ConnectorId: Integer (1..3)

**NEW:** ConnectorId: Integer (1..8)

Audio LocalInput Ethernet Register *(Codec Pro, Room 70 G2)*

**OLD:** ConnectorId: Integer (1..4)

**NEW:** ConnectorId: Integer (1..8)

Audio LocalInput Ethernet Register *(Room Bar Pro)*

**OLD:** ConnectorId: Integer (1..3)

**NEW:** ConnectorId: Integer (1..8)

Message Send *(All products)*

**OLD:** Text: String (0, 1024)

**NEW:** Text: String (0, 8192)

Presentation Start *(All products)*

**Added to valuespace:** Remote

Presentation Stop *(All products)*

**Added to valuespace:** Remote

Provisioning RoomType Activate (*Codec Plus, Room 55 Dual, Room 70*)

**OLD:** Name: Briefing/Classroom/PresenterAndAudience/Standard

**NEW:** Name: Classroom/PresenterAndAudience/Standard

UserInterface Branding Delete (*All products*)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

UserInterface Branding Fetch (*All products*)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

UserInterface Branding Get (*All products*)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

UserInterface Branding Updated (*All products*)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

UserInterface Branding Upload (*All products*)

**OLD:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding

**NEW:** Type: Background/Branding/HalfwakeBackground/HalfwakeBranding/  
SchedulerBackground/SchedulerBranding

UserInterface LedControl Color Set (*All products*)

**Color:** Added to valuespace: Aquamarine/Blue/Cyan/Fuchsia/Gold/Lime/Magenta/  
Orange/Orchid/Purple/Scarlet/Turquoise/Violet



## xStatus changes in RoomOS 11.14

### New xStatuses

Audio Input Connectors Ethernet [n] Mute *(Board Pro)*

Audio Input Connectors Ethernet [n] PacketsLost Total *(Board Pro)*

Audio Input Connectors Ethernet [n] PacketsReceived Total *(Board Pro)*

Audio Input Connectors Ethernet [n] StreamName *(Board Pro)*

Audio Output Connectors Ethernet [n] Channels *(Board Pro)*

Audio Output Connectors Ethernet [n] MedialP *(Board Pro)*

Audio Output Connectors Ethernet [n] StreamName *(Board Pro)*

Audio USB ConnectionStatus Capture *(All products)*

Audio USB ConnectionStatus Playback *(All products)*

Audio USB Product *(All products)*

Audio USB SerialNumber *(All products)*

Audio USB TerminalType Capture *(All products)*

Audio USB TerminalType Playback *(All products)*

Audio USB VolumeControl Capture Max *(All products)*

Audio USB VolumeControl Capture Min *(All products)*

Audio USB VolumeControl Capture Value *(All products)*

Audio USB VolumeControl Playback Max *(All products)*

Audio USB VolumeControl Playback Min *(All products)*

Audio USB VolumeControl Playback Value *(All products)*

Cameras Camera [n] Lenses [n] Lens *(All products)*

Cameras PresenterTrack Availability *(Room Bar Pro)*

Cameras PresenterTrack PresenterDetected *(Room Bar Pro)*

Cameras PresenterTrack Status *(Room Bar Pro)*

Cameras SpeakerTrack ViewLimits Pan *(Board Pro, Room Bar, Room Bar Pro)*

Cameras SpeakerTrack ViewLimits Status *(Board Pro, Room Bar, Room Bar Pro)*

Cameras SpeakerTrack ViewLimits Tilt *(Board Pro, Room Bar, Room Bar Pro)*

Cameras SpeakerTrack ViewLimits Zoom *(Board Pro, Room Bar, Room Bar Pro)*

Conference Call [n] Capabilities MoveToLobby *(All products)*

Conference Presentation Whiteboard BoardUrl *(All products)*

Conference Presentation Whiteboard Mode *(All products)*

MicrosoftTeams Calling InCall *(All products)*

[Changed path from SystemUnit Extensions Microsoft InCall](#)

MicrosoftTeams HardwareAccelerator Decoder [n] CroppedHeight *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] CroppedWidth *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] Fps *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] FrameCount *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] Height *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] OutputMode *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs *(All products)*

MicrosoftTeams HardwareAccelerator Decoder [n] Width *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] Fps *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] FrameCount *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] Height *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] InputMode *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs *(All products)*

MicrosoftTeams HardwareAccelerator Encoder [n] Width *(All products)*

MicrosoftTeams Pairing Active *(All products)*

MicrosoftTeams Software Version Android *(All products)*

[Changed path from SystemUnit Extensions Microsoft Version Android](#)

MicrosoftTeams Software Version CompanyPortalApp *(All products)*

[Changed path from SystemUnit Extensions Microsoft Version CompanyPortalApp](#)

MicrosoftTeams Software Version OEMAgent *(All products)*

[Changed path from SystemUnit Extensions Microsoft Version OEMAgent](#)

MicrosoftTeams Software Version TeamsAdminAgent *(All products)*

[Changed path from SystemUnit Extensions Microsoft Version TeamsAdminAgent](#)

MicrosoftTeams Software Version TeamsApp *(All products)*

[Changed path from SystemUnit Extensions Microsoft Version TeamsApp](#)

MicrosoftTeams Software VersionCode CompanyPortalApp *(All products)*

[Changed path from SystemUnit Extensions Microsoft VersionCode CompanyPortalApp](#)

MicrosoftTeams Software VersionCode OEMAgent *(All products)*

[Changed path from SystemUnit Extensions Microsoft VersionCode OEMAgent](#)

MicrosoftTeams Software VersionCode TeamsAdminAgent *(All products)*

[Changed path from SystemUnit Extensions Microsoft VersionCode TeamsAdminAgent](#)

MicrosoftTeams Software VersionCode TeamsApp *(All products)*

[Changed path from SystemUnit Extensions Microsoft VersionCode TeamsApp](#)

MicrosoftTeams User SignedIn *(All products)*

Peripherals ConnectedDevice [n] Model *(All products)*

Peripherals ConnectedDevice [n] Role *(All products)*

Provisioning RoomType *(Room Bar Pro)*

RoomAnalytics RoomInUse *(All products)*

ThousandEyes Version *(All products)*

UserInterface Features Files Start *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro)*

UserInterface Features Whiteboard Start *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro)*

UserInterface ScreenLock Status *(Desk, Desk Mini, Desk Pro)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1080\_50 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1080\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1200\_50 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1200\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2560\_1080\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2560\_1440\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2880\_1200\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3440\_1440\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_1600\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_1620\_60 *(All products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_2160\_30 *(All products)*

*products)*

Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_2160\_60 *(All products)*

Video Output Monitor [n] ManufacturerId *(All products)*

## xStatuses that are removed

SystemUnit Extensions Microsoft InCall *(All products)*

[Changed path to MicrosoftTeams Calling InCall](#)

SystemUnit Extensions Microsoft Version Android *(All products)*

[Changed path to MicrosoftTeams Software Version Android](#)

SystemUnit Extensions Microsoft Version CompanyPortalApp *(All products)*

[Changed path to MicrosoftTeams Software Version CompanyPortalApp](#)

SystemUnit Extensions Microsoft Version OEMAgent *(All products)*

[Changed path to MicrosoftTeams Software Version OEMAgent](#)

SystemUnit Extensions Microsoft Version TeamsAdminAgent *(All products)*

[Changed path to MicrosoftTeams Software Version TeamsAdminAgent](#)

SystemUnit Extensions Microsoft Version TeamsApp *(All products)*

[Changed path to MicrosoftTeams Software Version TeamsApp](#)

SystemUnit Extensions Microsoft VersionCode CompanyPortalApp *(All products)*

[Changed path to MicrosoftTeams Software VersionCode CompanyPortalApp](#)

SystemUnit Extensions Microsoft VersionCode OEMAgent *(All products)*

[Changed path to MicrosoftTeams Software VersionCode OEMAgent](#)

SystemUnit Extensions Microsoft VersionCode TeamsAdminAgent *(All products)*

[Changed path to MicrosoftTeams Software VersionCode TeamsAdminAgent](#)

SystemUnit Extensions Microsoft VersionCode TeamsApp *(All products)*

[Changed path to MicrosoftTeams Software VersionCode TeamsApp](#)

## xStatuses that are modified

### Diagnostics Message [n] Type *(All products)*

**Added to valuespace:** CloudConfigurationBulkWriteback/  
EmbeddedWebViewTerminatedByOutOfMemory/  
KioskWebViewTerminatedByOutOfMemory/  
PersistentWebAppAllowedHostConfiguration/  
PersistentWebAppTerminatedByOutOfMemory/SignageTerminatedByOutOfMemory/  
USBAudioDeviceError/WebRTCWebViewTerminatedByOutOfMemory/  
WebWidgetTerminatedByOutOfMemory

**Removed from valuespace:** MiracastConfiguration/USBAudioSeparation

### UserInterface LedControl Color *(All products)*

**Added to valuespace:** Aquamarine/Blue/Cyan/Fuchsia/Gold/Lime/Magenta/Orange/  
Orchid/Purple/Scarlet/Turquoise/Violet

### Video Input AirPlay Activity *(All products except 1st generation Board)*

**OLD:** Audio/Curtain/Idle/Screen/Settings/Video

**NEW:** Audio/Curtain/Idle/PinInPip/Screen/Settings/Video

### Video Output Connector [n] Type *(All products)*

**OLD:** HDMI/Internal/LCD/Legacy/USBC-DP

**NEW:** HDMI/LCD

### WebEngine Features Signage *(Board, Board Pro, Codec EQ, Codec Plus, Codec Pro, Desk, Desk Mini, Desk Pro, Room 55, Room 55 Dual, Room 70 Dual, Room 70 G2, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Room Panorama, Room 70 Panorama)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

### WebEngine Features Signage *(Room 70 Single)*

**OLD:** Include\_For\_Extension:

**NEW:** Include\_For\_Extension: mtr

## Chapter 2

# About the API

## Cisco Terms and Conditions

Your use of Cisco software and cloud services are subject to these [terms and conditions](#). Your use of Cisco APIs are subject to the [Cisco Webex Developer Terms of Service](#).

### Permitted Commercial Use for Scheduled Meeting Join Experience

In addition to the Cisco Terms and Conditions, the following use case requires separate permission for commercial use: providing a scheduled meeting join experience similar to one button to push. This includes use of any API that updates the device with calendar data from an external source to provide this functionality, including "xCommand Bookings Put", or previous private API's, such as "bookingsputxml". In addition, using other APIs to accomplish the same functionality would also require permission for commercial use.

If you are providing a Scheduled Meeting Join Experience, you either must comply with the permitted commercial use terms or it must be for non-commercial use. Non-commercial use is defined as being solely for your internal business operations only and not for any activities that involve you using the API as part of or in furtherance of an income-generating service or product, whether directly or indirectly.

Any use to provide a Scheduled Meeting Join Experience that does not qualify under non-commercial use requires separate permission from Cisco.

Cisco reserves the right to revoke your license to use our API if, in our sole discretion, we deem that your use is for unauthorized commercial purposes or otherwise violates the Webex Developer Terms of Service. Please contact us at [devsupport@webex.com](mailto:devsupport@webex.com) if you have any questions about whether your intended use of the API is permitted, or to inquire about obtaining permission.

## API fundamentals

This chapter contains a top-level view of the mechanisms supported by the device API.

Here you can read about how to access the API, how to use the command line and what the different parts of the API can be used for. This chapter also describes how to use the feedback functions that are available for the device.

The API consists of four major groups:

- Commands
- Configurations
- Status
- Events

These four groups are hierarchically organized, which makes it easier to find related functionality. You can find the complete lists of all commands, configurations and statuses in the following chapters.

**NOTE:** The commands return values that may affect how the device interacts with third-party systems. These may change from release to release and are not documented.

## Connecting to the API

There are several ways to access the device API:

- SSH
- HTTP/HTTPS
- WebSocket
- Serial connection<sup>1</sup>

Regardless of which method you choose, the structure of the API is the same. Choose the connection method that suits your application best. Note that all methods are not available for all products.

Before you start, please read this section about the different methods, as some of them may require additional configuration changes before being enabled. The configurations, apart from password, can be set from the Configuration menu on the web interface or from the command line interface. The examples are for the command line interface.

## SSH

SSH is a secure TCP/IP connection and it is enabled by default on the device. It can be disabled. You need an SSH client, such as PuTTY, to access the API over SSH.

```
xConfiguration NetworkServices SSH Mode:  
<Off,On>
```

## HTTP/HTTPS

As HTTP/HTTPS are connectionless protocols, there is no persistent connection. There are several ways of communicating with the API over HTTP.

In order to enable or disable the HTTP and HTTPS services, configure the following setting on the device.

```
xConfiguration NetworkServices HTTP Mode:  
<Off, HTTP+HTTPS, HTTPS>
```

## Connecting

You can inspect the API by entering the IP-address or host name of the device in your web browser. This opens the web interface, and you can find the API documents under the menu section [Integration > Developer API](#). The HTTP POST and GET methods are used to execute commands and get feedback from the device. This is described in [Using HTTP on page 42](#) in this document.

## WebSocket

WebSocket is a protocol that provides a full-duplex communication channel between a client and the API of the device. The API commands are embedded in JSON-RPC objects before they are sent over WebSocket.

In order to enable or disable the use of WebSocket, configure the following settings. Because WebSocket is tied to HTTP, also HTTP or HTTPS must be enabled before you can use WebSocket.

```
xConfiguration NetworkServices WebSocket:  
<Off, FollowHTTPService>  
xConfiguration NetworkServices HTTP Mode:  
<Off, HTTP+HTTPS, HTTPS>
```

Read the [► xAPI over WebSocket](#) guide for details how to convey API commands in JSON-RPC objects over WebSocket.

<sup>1</sup> API access over a serial connection is not available for Room 55 Dual or Room 70.

## RS-232 / serial connection

You may want to set up serial connection to a device for the following purposes:

- *Access to the device's API*

Depending on the device type, the serial connection for API access is set up via an USB-A or a COM-port (D-SUB 9 or 3-pin Euroblock).<sup>2</sup>

- *Maintenance and service*

You may need a serial connection to the device to recover from a faulty state. Refer to the administrator guide of the product for details.

Serial communication can be used without an IP-address, DNS, or a network.

Serial communication is enabled by default, but can be disabled by setting the serial port mode to Off.<sup>3</sup>

```
xConfiguration SerialPort Mode: <Off/On>
```

### Baud rate and other serial port parameters

Refer to the table to find the connector types and serial port parameters for each device type.

Some device types allow a range of baud rates.<sup>4</sup> The device can give very much feedback, so we recommend keeping the connection at the highest rate possible. In some situations, such as when using long cables, a lower rate may be used to avoid bit errors.

```
xConfiguration SerialPort BaudRate:
<9600/19200/38400/57600/115200>
```

A new baud rate takes effect after a device reboot.

### Login and password

For security reasons the password prompting is turned on by default, but it can be turned off if preferred.

```
xConfiguration SerialPort LoginRequired:
<Off/On>
```

Device type	Connector type	Baud rate (bps)	Other parameters
Room Bar Room Bar Pro Room Kit Mini Room Kit Room Kit EQX Room 55 Codec Plus Codec EQ Desk Pro Desk Desk Mini Board Pro Board Pro G2	USB-A + RS-232 adapter	115200	Data bits: 8 Parity: None Stop bits: 1 Hardware flow control: Off
Codec Pro Room 70 G2 Room Panorama Room 70 Panorama	COM (Euroblock, 3 -pin) <b>RECOMMENDED</b> USB-A + RS-232 adapter	9600, 19200, 38400, 57600, or 115200 (default)	
Board 55, 70 Board 55S, 70S, 85S Room 55 Dual, Room 70	Not available		

*Serial connection for API access*

<sup>2</sup> API access over a serial connection is not available for Room 55 Dual or Room 70.

<sup>3</sup> Serial communication is always enabled for Webex Board 55 and 70 (first generation of boards); it cannot be disabled.

<sup>4</sup> Applies only to the ports that are used to access the devices's API. A dedicated maintenance port (micro USB) always uses the default baud rate.

## Ethernet ports

### The main network port

The main network port - Network port 1 - is always reserved for the connection to LAN. This applies to all video conferencing devices.

Depending on the device, Network port 1 is marked with the number 1, the network symbol (🌐), or both.

### Other network ports

Most video conferencing devices have more than one network port. The additional ports can be used for peripherals like cameras, touch controllers, third-party control systems, and more.

A peripheral that is connected to one of these network ports gets a local IP-address on the video conferencing device's internal network. It is not possible for packets to traverse the device between the main network port (LAN) and the other network ports.

**Note:** The allowed IP-address range on the internal network is different for Cisco and third-party (non-Cisco) peripherals.

	Allowed IP-addresses
Cisco peripheral	• 169.254.1.41 to 169.254.1.200 (dynamic, DHCP)
Non-Cisco peripheral	• 169.254.1.30 (dynamic, DHCP) • 169.254.1.225 to 169.254.1.254 (static)

On the local network you can use SSH or HTTP (port 443) to reach the video conferencing device on 169.254.1.1.

### Power over Ethernet (PoE)

These products have one or more Ethernet ports that provide PoE. The ports are marked with the touch controller symbol (👆) or the letters "PoE":

- One port: Codec Plus, Room Bar, Room Kit Mini, Room 55, Room 55 Dual, Room 70, Board Pro, Board Pro G2
- Two ports: Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama
- Four ports: Codec EQ, Room Kit EQX

## User roles

A user account may hold one or a combination of user roles. A user account with full access rights, like the default admin user, should possess the ADMIN, USER, and AUDIT roles.

These are the user roles:

**ADMIN:** A user with this role can create new users, change most settings, make calls, and search the contact lists. The user cannot upload audit certificates and change the security audit settings.

**USER:** A user with this role can make calls and search the contact lists. The user can modify a few settings, for example adjust the ringtone volume and set the time and date format.

**AUDIT:** A user with this role can change the security audit settings and upload audit certificates.

**ROOMCONTROL:** A user with this role can create customized UI panels (for example in-room controls). The user has access to the UI Extensions editor and associated development tools.

**INTEGRATOR:** A user with this role has access to settings, commands and status that are required to set up advanced AV scenarios, and to integrate our devices with third-party equipment. Such a user can also create customized UI panels.

## Passphrase

The device is delivered with a default user account with full credentials. The user name is *admin*, and initially, no passphrase is set for the default user.

It is mandatory to set a passphrase for the *admin* user in order to restrict access to device configuration. You should in addition set a passphrase for any other user with similar credentials.

You can set the passphrase on the device's web interface. Open a web browser and enter the IP-address of the device in the address bar and sign in. Click your user name in the upper right corner and choose [Change passphrase](#) in the drop down menu.



## API output

The xPreferences is used to set preferences for the RS-232 and SSH sessions.

The output modes are:

**Terminal:** Line based output for use with line based control systems

**XML:** XML output for use with control systems that understand XML.

**JSON:** JSON format is convenient when integrating with web based systems.

The default output mode is *terminal*. To change this, you have to define your preferences for each session individually. Examples in this guide are in terminal mode.

To set output mode to XML, issue the command:

```
xPreferences outputmode xml
```

To revert to terminal mode, issue the command:

```
xPreferences outputmode terminal
```

### Example: Command in terminal mode

```
xCommand Audio Volume Set Level: 50
```

### Example: Command in XML mode

```
<Command>
  <Audio>
    <Volume>
      <Set command="True">
        <Level>50</Level>
      </Set>
    </Volume>
  </Audio>
</Command>
```

## Using the command line

### Help

To get a list of all supported top level commands you can type `?` or `help` after connecting to the device using RS-232 or SSH.

### Bye

Typing the `bye` command closes the command line interface.

#### Example:

```
?
      - User Commands -

help          xcommand      xconfiguration  xevent          xfeedback
xgetxml       xpreferences  xstatus         bye             echo
log           systemtools
OK
```

## API commands

### xConfiguration

Configurations are device settings, such as device name and network settings. These are persistent across boots. Refer to [Configurations on page 36](#).

### xCommand

Commands instruct the device to execute actions, such as to dial a number or to search the phone book. Refer to [Commands on page 36](#).

### xStatus

A status contains the current state of the device, such as connected calls, the status of the gatekeeper registration, connected inputs and output sources. Refer to [Status on page 36](#).

### xFeedback

The `Feedback` commands are used to specify what parts of the configuration and status hierarchies to monitor. `Feedback` is only issued on the RS-232 or SSH session for which it is specified. If you are connecting to the device with multiple sessions, you have to define `feedback` individually for each session. Refer to [Feedback mechanism on page 40](#).

### xPreferences

The `xPreferences` command is used to set preferences for the RS-232 and SSH sessions. Refer to [API output on page 33](#).

### Echo <on/off>

If `echo` is set to **On** the key inputs are displayed when entering text in a command line interface.

If `echo` is set to **Off** user input is not displayed when entering text in a command line interface.

### xEvent

The `xEvent` command returns information on which events are available for feedback. Refer to [Events on page 39](#).

### xGetxml

The `xGetxml` request returns an XML document based on the location parameter attached to the request. The elements (or a complete document) matching the expression will be returned. Refer to [Feedback mechanism on page 40](#).

## Other commands

### Systemtools

The `systemtools` commands are a set of command line tools for administrative control and diagnostics. The commands can be used for advanced troubleshooting together with Cisco technical support. `Systemtools` are not a part of the programming API.

### Log

The `log` command is used to enable advanced logs. It is only used for debugging the device.

## Command line shortcuts

If your client supports it, there are some timesaving shortcuts you can use:

- Tab-completion to complete the commands and arguments.
- Arrow up and arrow down keys to navigate your command history.
- <CTRL-a>: Jump to the beginning of the line.
- <CTRL-e>: Jump to the end of the line.
- <CTRL-r>: Incremental command history search.
- <CTRL-w>: Erase the current line.

## Searching

You can use // to search for elements anywhere in the status or configuration hierarchy (Example 1).

You can also combine multiple //s (Example 2).

**NOTE:** The search shortcuts work well for inspecting the API, but should not be used in applications. We recommend that you always use the complete paths to avoid command ambiguity when upgrading to newer firmware releases.

### Example 1:

List all configurations that include words that starts with OUT and HDMI:

```
xConfiguration //out//hdmi
*c xConfiguration Audio Output HDMI 1 Level: 0
*c xConfiguration Audio Output HDMI 1 Mode: On
*c xConfiguration Audio Output HDMI 2 Level: 0
*c xConfiguration Audio Output HDMI 2 Mode:
Off
** end
```

### Example 2:

Get the resolution width of all connected sources for both inputs and outputs:

```
xStatus //vid//res//wid
*s Video Input Source 1 Resolution Width: 1920
*s Video Input Source 2 Resolution Width: 0
*s Video Input Source 3 Resolution Width: 0
*s Video Input Source 4 Resolution Width: 0
*s Video Output Connector 1 Resolution Width:
1920
*s Video Output Connector 2 Resolution Width:
1280
*s Video Output Connector 3 Resolution Width:
1280
** end
```

## Value types and formats

The device supports the following value types:

- **Integer values:** <x..y>  
Defines the valid range for an integer input. x = min value, y = max value.
- **Literal values:** <X/Y/./Z>  
Defines the possible values for a given configuration.
- **String values:** <S: x, y>  
Defines that the valid input for this configuration is a string with minimum length of x and maximum length of y characters. Strings can have rules that further specify their format and length.

### Input values that contain spaces need to be quoted

Any values for configurations and commands containing spaces must be enclosed in quotes. Quotes are not necessary for values without spaces.

```
Correct: xCommand dial number: "my number
contains spaces"
Correct: xCommand dial number: 12345
Incorrect: xCommand dial number: my number
contains spaces
```

### Case sensitivity

All commands are case-insensitive. All of the following commands will work.

```
XCOMMAND DIAL NUMBER: foo@bar.org
xcommand dial number: foo@bar.org
xCommand Dial Number: foo@bar.org
```

## Commands

Commands instruct the device to execute actions, such as to dial a number or to search the phone book. All commands start with the prefix `xCommand` followed by a command path.

Type `xCommand ?` on the command line to list all the top level commands.

To view the complete list of commands and their parameters, type `xCommand ??` on the command line.

Command arguments are key-value pairs.

When issuing an `xCommand`, the command consists of one argument and one required parameter. In this document the command usage is described for all `xCommands`, with both required and optional parameters. The optional parameters are in brackets.

### Example:

```
xCommand Dial Number: 123
```

`xCommand` is the command prefix. The command to be executed is `Dial`.

The example contains one argument, `Number: 123`. `Number` is the key and `123` is its value. The key/value pair is separated with `:`.

## Configurations

Configurations are device settings that are persistent across boots. Like commands, also configurations are structured in a hierarchy.

Type `xConfiguration ?` to list all the top level configurations.

Type `xConfiguration ??` to list all configurations and their value spaces.

Type `xConfiguration` to list all configurations and their current values. To list out only some of the configurations, write `xConfiguration` followed by one or more parts of the configuration paths.

### Example: Set the H323 Alias ID

Type:

```
xConfiguration H323 Profile 1 H323Alias ID:  
"changed@company.com"
```

### Example: Get the H323 Alias ID

Type:

```
xConfiguration H323 Profile 1 H323Alias ID
```

Result:

```
*c xConfiguration H323 Profile 1 H323Alias ID:  
"changed@company.com"  
**end
```

## Status

Statuses contain information about the current state of the device, such as connected calls, the status of the gatekeeper registration, connected inputs and output sources.

Type `xStatus ?` on the command line to list all top level statuses.

Type `xStatus` to list all statuses and their current values.

To list out only some of the statuses, write `xstatus` followed by the relevant part of the status path (address expression):

```
xStatus <address expression>
```

## Multiline commands

Multiline commands support larger amounts of data as input than the single line commands. Some examples of use are input of UI extension definitions, branding images (base64 encoded), macros, welcome banners, and security certificates.

Multiline command syntax:

```
xCommand <command path> <enter>
<payload> <enter>
.<enter>
```

You enter a multiline command just like any other xAPI command. However, the command waits for you to supply the command payload as input before executing. The format of the payload depends on the command. It can include line breaks.

The maximum length is 8 MB. If this is exceeded, an ERROR will be thrown and no further parsing will take place.

The command is executed when you enter a separate line containing just a period followed by a line break.

The result returned is OK or ERROR depending on the command being executed successfully or not.

The multiline commands are marked in the command descriptions in this guide.

### Example: Set up a welcome banner text

Command:

```
xCommand SystemUnit WelcomeBanner Set
Hello!
This is the second line of text.
This is the third.
Thank you!
.
```

Command result:

```
OK
*r WelcomeBannerSetResult (status=OK):
** end
```

## Synchronous API calls

The API works asynchronously. This means that there is no guarantee that command responses arrive in the same order as the commands were issued. The device may also respond with feedback between your request and the response, in form of status changes or events, due to changes on the device.

For some applications it might be crucial to match requests with responses. The API therefore supports a response-tagging mechanism.

This mechanism works with all command types: `xcommand`, `xconfiguration`, and `xstatus`. A typical use of this would be to create a command queue in your application and assign unique IDs to every command sent to the device. A listener then listens to all feedback from the device and matches the ID on the response with the corresponding ID in the command queue. This enables matching the original request with the specific response.

### Example:

```
xcommand Video Layout Add | resultId="mytag_1"  
OK  
*r VideoLayoutAddResult (status=OK):  
LayoutId: 1  
** resultId: "mytag_1"  
** end
```

In XML mode the `resultId` is added as an attribute to the top-level `XmlDoc` tag:

```
xgetxml /Configuration/Video/Layout/Scaling | resultId="mytag_2"  
<XmlDoc resultId="mytag_2">  
<Configuration item="1">  
  <Video item="1">  
    <Layout item="1">  
      <Scaling item="1" valueSpaceRef="...">Off</Scaling>  
    </Layout>  
  </Video>  
</Configuration>  
</XmlDoc>
```

## Events

Event returns information about the events that are available for feedback. This overview presents examples of some of the events that are available on the API.

To get an overview of the supported events:

- `xEvent -` Lists the top level events
- `xEvent <top level category>` - List all of the available events in that category
- `xEvent *` - Lists all available events on that device

The result for events depends on the state of the device.

### Example 1: Outgoing Call Indication

Outgoing Call Indication is an event reported when an outgoing call is about to be dialled. Returns the CallId the call has been assigned.

```
*e OutgoingCallIndication CallId: x
** end
```

### Example 2: Call Disconnect

Call Disconnect is an event reported when a call is disconnected. Returns the CallId of the disconnected call and reason for the call's disconnection.

```
*e CallDisconnect CallId: x CauseValue: 0
CauseString: "" CauseType: LocalDisconnect
OrigCallDirection: "outgoing"
** end
```

### Example 3: Call Successful

Call Successful is an event reported when a call is connected successfully, that is when all channels are up and established.

```
*e CallSuccessful CallId: 132 Protocol:
"h223" Direction: "outgoing" CallRate: 768
RemoteURI: "h223:integratorHQ@company.com"
EncryptionIn: "Off" EncryptionOut: "Off"
** end
```

### Example 4: FECC Action request

FECC Action request is an event reported when far end is sending FECC commands.

```
*e FeccActionInd Id: 132 Req: 1 Pan: 1
PanRight: 1 Tilt: 0 TiltUp: 0 Zoom: 0 ZoomIn:
0 Focus: 0 FocusIn: 0 Timeout: 300 VideoSrc:
0 m: 0
** end
```

### Example 5: TString message received

TString message received is an event reported when far end has sent a TString message.

```
*e TString CallId: 132 Message: "ee"
** end
```

### Example 6: SString message received

SString message received is an event reported when far end has sent a SString message.

```
*e SString String: "ee" Id: 132
** end
```

## Feedback mechanism

To build solutions that can reliably keep the state between your application and the device synchronized, you can set up a notification system to report the changes in the state of the device.

The API supports notifications on the following:

- Configuration changes
- Status changes
- Event notifications

These notifications will not be sent unless you have explicitly told the device to do so. You can subscribe to the feedback by registering feedback expressions. How you register feedback expressions varies according to the connection method used.

When using HTTP, the method of handling feedback differs slightly from what is presented in this section. See [Feedback from the device over HTTP on page 44](#) for more information.

**WARNING:** A device may give very much feedback, especially when calls are connected and disconnected. Do only subscribe to the feedback you need.

Never register for all status feedback by issuing `xFeedback register /Status`. This may give the control application too much data to handle, which may lead to sluggish or unpredictable behavior.

## Feedback expressions

The expression used when registering for feedback is a variant of the XPath language. The XPath language describes a way to select nodes from an XML/JSON document. The software contains three main feedback documents.

Document	API command	Path
Status	<code>xStatus</code>	<code>/Status</code>
Configuration	<code>xConfiguration</code>	<code>/Configuration</code>
Event	<code>xEvent</code>	<code>/Event</code>

The syntax for feedback registering is:

```
xFeedback register <path>
```

Never register for all status feedback by issuing `xFeedback register /Status`.

It is safe to register for all configuration changes using `xFeedback register /Configuration`, as configuration changes will most likely not occur that often.

By going through some examples, we can see how this information can be used to build feedback expressions. A good way to verify the expressions is to point your browser to `http://<ip-address>/getxml?location=path` or to execute `xgetxml <path>` from the terminal, and check that the output matches the nodes you want feedback on.

### Example 1: Microphones Mute status

Terminal query

```
xStatus Audio Microphones Mute
*s Audio Microphones Mute: Off
** end
```

Equivalent feedback expression

```
xFeedback register /Status/Audio/
Microphones/Mute
```

### Example 2: Name of all video input connectors

Terminal query

```
xConfiguration Video Input Connector Name
*c xConfiguration Video Input Connector 1
Name: "NameA"
*c xConfiguration Video Input Connector 2
Name: "NameB"
*c xConfiguration Video Input Connector 3
Name: "NameC"
*c xConfiguration Video Input Connector 4
Name: "NameD"
*c xConfiguration Video Input Connector 5
Name: "NameE"
** end
```

Equivalent feedback expression

```
xFeedback register /Configuration/Video/
Input/Connector/Name
```

### Example 3: Name of video input connector 3

Terminal query

```
xConfiguration Video Input Connector 3
Name
*c xConfiguration Video Input Connector 3
Name: "NameC"
** end
```

Equivalent feedback expression

```
xFeedback register /Configuration/Video/
Input/Connector[@item="3"]/Name
```



## Terminal connections

### Managing feedback subscriptions

To register, list, and deregister feedback expressions, you use the command `xFeedback` and its corresponding sub commands.

The registered expressions are only valid for the currently active connection. If you open two terminal sessions and register to get feedback in one session, you do not receive feedback in the other session. This also means that if you disconnect from a session, you have to re-register all expressions after reconnecting.

You can register up to 50 expressions.

### Feedback output

The feedback output is exactly the same as you get when querying the device using the `xConfiguration` and `xStatus` commands. For instance, if you issue the command `xStatus Standby Active` on the command line, the result will be:

```
*s Standby Active: On
** end
```

If you have registered for feedback on status changes, the feedback you get when the device goes to standby-mode will be exactly the same as above:

```
*s Standby Active: On
** end
```

This means that when you are programming against the device, you only need to handle one format.

### Example: Managing feedback subscriptions

**A: Register feedback expressions.**

```
Type: xFeedback register /Status/Audio
```

```
Result: ** end
```

```
OK
```

```
Type: xFeedback register /Event/CallDisconnect
```

```
Result: ** end
```

```
OK
```

```
Type: xFeedback register /Configuration/Video/MainVideoSource
```

```
Result: ** end
```

```
OK
```

**B: List out currently registered expressions.**

```
Type: xFeedback list
```

```
Result: /Configuration/Video/MainVideoSource
```

```
/Event/CallDisconnect
```

```
/Status/Audio
```

```
** end
```

```
OK
```

**C: Deregister feedback expressions.**

```
Type: xFeedback deregister /Event/CallDisconnect
```

```
Result: ** end
```

```
OK
```

```
Type: xFeedback deregister /Status/Audio
```

```
Result: ** end
```

```
OK
```

**D: List the new feedback expressions.**

```
Type: xFeedback list
```

```
Result: /Configuration/Video/MainVideoSource
```

```
** end
```

```
OK
```

## Using HTTP

The device supports sending commands and configurations over HTTP and HTTPS. It is also possible to retrieve configurations and statuses this way. This interface exposes the same API as the command line, but in XML format.

### HTTP XMLAPI Authentication

Access to the XMLAPI requires the user to authenticate using HTTP Basic Access Authentication as a user with 'ADMIN' role. Unauthenticated requests prompt a 401 HTTP response containing a Basic Access Authentication challenge. How to use HTTP Basic Access Authentication varies according to the HTTP library or tool that you are using.

If your application will be issuing multiple commands through the API, we highly recommend that you use Session Authentication (see below). The standard basic authentication does a full re-authentication per request, which may affect the performance of your application.

### HTTP XMLAPI Session Authentication

Authenticating with your username and password combination for each API request might introduce too much latency for some use-cases. To mitigate this, the API supports a session-based authentication mechanism.

To open a session, issue a POST to `http://<ip-address>/xmlapi/session/begin` with Basic Access Authentication. The response sets a `SessionId`-cookie that can be used with subsequent requests.

Note that when using API Session Authentication, it is important to explicitly close the session when you are done. Failing to do so may cause the device to run out of sessions, as there are a limited number of concurrent sessions available, and they do not immediately time out when they are no longer in use. See `xConfiguration Security Session InactivityTimeout` for more information.

### URL cheat sheet

The following table contains the main URLs used when accessing the API over HTTP.

Method	URL	Description
GET	<code>http://&lt;ip-address&gt;/status.xml</code>	Complete status document
GET	<code>http://&lt;ip-address&gt;/configuration.xml</code>	Complete configuration document
GET	<code>http://&lt;ip-address&gt;/command.xml</code>	Complete command document
GET	<code>http://&lt;ip-address&gt;/valuespace.xml</code>	Complete valuespace document
GET	<code>http://&lt;ip-address&gt;/getxml?location=&lt;path&gt;</code>	Retrieve document based on a path
POST	<code>http://&lt;ip-address&gt;/putxml</code>	Configurations and commands in HTTP body

#### Example: Starting a HTTP XMLAPI session

##### Request:

```
POST /xmlapi/session/begin
HTTP/1.1
Authorization: Basic
<Base64 encoded
authentication string>
```

##### Response:

```
HTTP/1.1 204 No Content
Server: nginx/1.8.0
Connection: keep-alive
Set-Cookie: SessionId=f08102c8ce5aaf8fba23a7238cc2ef464b990e18bfb7fb048820c0e28955c54; Path=/; HttpOnly
```

This session counts toward the device's concurrent sessions limit.

With an open session, provide the `SessionId` cookie to following requests. Your tool/library may do this automatically.

#### Example: Using a HTTP XMLAPI session

##### Request:

```
GET /configuration.xml
HTTP/1.1
Cookie: SessionId=f08102c8ce5aaf8fba23a7238cc2ef464b990e18bfb7fb048820c0e28955c54
```

##### Response:

```
HTTP/1.1 200 OK
Server: nginx/1.8.0
Content-Type: text/xml; charset=UTF-8
Content-Length: 43549
Connection: keep-alive
<?xml version="1.0"?>
<Configuration
product="Cisco Codec"
version="ce8.2.0"
apiVersion="4"> ...
</Configuration>
```

To close a session after use, issue a POST to `http://<ip-address>/xmlapi/session/end` with the provided cookie.

#### Example: Closing a HTTP XMLAPI session

##### Request:

```
POST /xmlapi/session/end
HTTP/1.1
Cookie: SessionId=f08102c8ce5aaf8fba23a7238cc2ef464b990e18bfb7fb048820c0e28955c54
```

##### Response:

```
HTTP/1.1 204 No Content
Server: nginx/1.8.0
Connection: keep-alive
Set-Cookie: SessionId=; Max-Age=0; Path=/; HttpOnly
```

## Getting status and configurations

### Example 1:

Get all status entries on the device

```
http://<ip-address>/getxml?location=/Status
```

### Example 2:

Get just the audio statuses of the device

```
http://<ip-address>/getxml?location=/Status/  
Audio
```

### Example 3:

Get all configurations of the device

```
http://<ip-address>/getxml?location=  
Configuration
```

### Example 4:

Get all video configurations of the device

```
http://<ip-address>/getxml?location=  
Configuration/Video
```

## Sending commands and configurations

### Using HTTP POST

When sending configurations and commands to the device, it is important that the HTTP header Content-Type is set to text/xml, i.e. Content-Type: text/xml. The body of the POST should contain the XML content.

To send multiline content with putxml, wrap it within a <body> tag.

### Example 1:

Changing the device name

#### Request

```
POST /putxml HTTP/1.1  
Content-Type: text/xml
```

```
<Configuration>  
  <SystemUnit>  
    <Name>newName</Name>  
  </SystemUnit>  
</Configuration>
```

### Example 2:

Setting the camera position

#### Request

```
POST /putxml HTTP/1.1  
Content-Type: text/xml
```

```
<Command>  
  <Camera>  
    <PositionSet command="True">  
      <CameraId>1</CameraId>  
      <Pan>200</Pan>  
      <Tilt>200</Tilt>  
    </PositionSet>  
  </Camera>  
</Command>
```

#### Response

```
HTTP/1.1 200 OK  
Content-Type: text/xml  
Content-Length: 91
```

```
<?xml version="1.0"?>  
<Command>  
<CameraPositionSetResult item="1" status="OK"/>  
</Command>
```

## Feedback from the device over HTTP

You can get the device to post http feedback messages (also known as webhooks) on changes to the API state, e.g. statuses, events and configuration updates. The HTTP Post feedback messages will be sent to the specified ServerURL. You can choose between events being posted in either XML or JSON format. You can subscribe to changes on multiple parts of the API by register up to 15 different feedback expressions.

### Registering for feedback

The command for registering is `xCommand HttpFeedback Register`. The syntax for this command and its arguments are described in this section.

### HttpFeedback Register syntax:

```
xCommand HttpFeedback Register
  FeedbackSlot: <1..4>
  ServerUrl(r): <S: 1, 2048>
  Format: <XML/JSON>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
  Expression: <S: 1, 255>
```

### HttpFeedback Register arguments:

**FeedbackSlot:** The device can register up to 4 slots of servers requesting HTTP feedback. Set the registering to one of them.

**Note:** Avoid using FeedbackSlot 3 in an environment where Cisco TelePresence Management Suite (TMS) is used as TMS uses this feedback slot to register its expressions.

**ServerUrl:** The URL to the HTTP server where you want the device to post the HTTP feedback messages to.

**Format:** Set the format for the feedback from the HTTP server to XML or JSON.

**Expression 1-15:** The XPath expression specifies which parts of the Status, Configuration or Event documents are monitored. You can have from 1 to 15 XPath expressions

Register the expressions you want to receive feedback on. See [Feedback mechanism on page 40](#) for more information about the expression formats.

**Example: Registering feedback on configuration changes, disconnect events and call status changes.**

```
POST /putxml HTTP/1.1
Content-Type: text/xml

<Command>
  <HttpFeedback>
    <Register command="True">
      <FeedbackSlot>1</FeedbackSlot>
      <ServerUrl>http://127.0.0.1/
        myhttppostsripturl</ServerUrl>
      <Format>XML</Format>
      <Expression item="1">/Configuration</
        Expression>
      <Expression item="2">/Event/
        CallDisconnect</Expression>
      <Expression item="3">/Status/Call</
        Expression>
    </Register>
  </HttpFeedback>
</Command>
```

### Feedback output

When the device notifies the registered HTTP server about changes, the body contains the same XML as when polling. There is however one small difference. The root-node contains an Identification node with children that specify the device from which the notification originated. This means that you can handle multiple devices with a single HTTP server URI.

**Example: Audio volume changed.**

```
<Configuration xmlns="http://www.company.com/
XML/CUIL/2.0">
  <Identification>
    <SystemName>My Device Name</SystemName>
    <MACAddress>00:00:de:ad:be:ef</MACAddress>
    <IPAddress>192.168.1.100</IPAddress>
    <ProductType>Cisco Codec</ProductType>
    <ProductID>Cisco Codec Pro</ProductID>
    <SWVersion>RoomOS 10.3.1.3 d425380c40d</
  SWVersion>
    <HWBoard>101401-5 [08]</HWBoard>
    <SerialNumber>PH0000000</SerialNumber>
  </Identification>
  <Audio item="1">
    <Volume item="1">60</Volume>
  </Audio>
</Configuration>
```

## Translating from terminal mode to XML

### Translating commands

The XML commands maintain the same structure as the terminal commands, but they use a parent-child relationship to describe the hierarchy. You can see this structure in the examples below.

#### Example 1: Setting up a call

##### Terminal

```
xCommand Dial Number: "12345" Protocol: H323
```

##### XML

```
<Command>
  <Dial command="True">
    <Number>12345</Number>
    <Protocol>H323</Protocol>
  </Dial>
</Command>
```

#### Example 2: Assigning volume level

##### Terminal

```
xCommand Audio Volume Set Level: 50
```

##### XML

```
<Command>
  <Audio>
    <Volume>
      <Set command="True">
        <Level>50</Level>
      </Set>
    </Volume>
  </Audio>
</Command>
```

### Translating configurations

Translating from xConfiguration to XML is similar to commands, but with the addition of a special attribute item="NN" for specifying the index in arrays.

#### Example: Configuring the input source type for video input connector 2

##### Terminal

```
xConfiguration Video Input Connector 2
InputSourceType: camera
```

##### XML

```
<Configuration>
  <Video>
    <Input>
      <Connector item="2">
        <InputSourceType>camera</InputSourceType>
      </Connector>
    </Input>
  </Video>
</Configuration>
```

## Dos and don'ts

Here are some best practices when programming the device's API.

### DO use complete commands

You should always use complete commands when programming, i.e. always use `xConfiguration Video` instead of `xconf vid`. The shortcuts can be used for searches in the API on the command line, but not for programming. The reason for this is that you might end up with ambiguous code when additional commands are added to the API.

### DO NOT subscribe to unnecessary feedback

Subscribing to too much feedback may congest the control application. Although the amount of feedback may seem fine in the current version, the amount of feedback may grow in future releases.

## Chapter 3

# xConfiguration commands

## Description of the xConfiguration commands

In this chapter, you can find a complete list of the xConfiguration commands.

App configuration .....	58	xConfiguration Audio Input Microphone [n] Level.....	70
xConfiguration Apps WallpaperBundles HalfwakelImage .....	58	xConfiguration Audio Input Microphone [n] Gain.....	70
Audio configuration .....	58	xConfiguration Audio Input Microphone [n] Mode.....	71
xConfiguration Audio ConnectorSetup.....	58	xConfiguration Audio Input Microphone [n] MuteOverride .....	71
xConfiguration Audio DefaultVolume.....	59	xConfiguration Audio Input Microphone [n] Pan.....	72
xConfiguration Audio Ethernet Encryption.....	59	xConfiguration Audio Input Microphone [n] PhantomPower.....	72
xConfiguration Audio Ethernet SAPDiscovery Address .....	59	xConfiguration Audio Input Microphone [n] VideoAssociation MuteOnInactiveVideo.....	72
xConfiguration Audio Ethernet SAPDiscovery Mode.....	60	xConfiguration Audio Input Microphone [n] VideoAssociation VideoInputSource .....	73
xConfiguration Audio Input ARC [n] Mode.....	60	xConfiguration Audio Input Microphone [n] Zone.....	73
xConfiguration Audio Input Ethernet [n] Channel [1..8] Gain.....	61	xConfiguration Audio Input MicrophoneMode.....	74
xConfiguration Audio Input Ethernet [n] Channel [1..8] Level .....	61	xConfiguration Audio Microphones BeamMix Inputs .....	74
xConfiguration Audio Input Ethernet [n] Channel [1..8] Mode.....	62	xConfiguration Audio Input USBC [n] Level .....	74
xConfiguration Audio Input Ethernet [n] Channel [1..8] Pan.....	62	xConfiguration Audio Input USBC [n] Gain .....	75
xConfiguration Audio Input Ethernet [n] Channel [1..8] Zone.....	63	xConfiguration Audio Input USBC [n] Mode .....	75
xConfiguration Audio Input Ethernet [n] EchoControl Mode.....	63	xConfiguration Audio Input USBC [n] VideoAssociation MuteOnInactiveVideo .....	75
xConfiguration Audio Input Ethernet [n] EchoControl NoiseReduction.....	64	xConfiguration Audio Input USBInterface [n] EchoControl Mode.....	76
xConfiguration Audio Input Ethernet [n] Equalizer ID.....	64	xConfiguration Audio Input USBInterface [n] Level .....	76
xConfiguration Audio Input Ethernet [n] Equalizer Mode .....	65	xConfiguration Audio Input USBInterface [n] Gain.....	76
xConfiguration Audio Input Ethernet [n] Mode.....	65	xConfiguration Audio Input USBInterface [n] Mode.....	77
xConfiguration Audio Input HDMI [n] Level.....	66	xConfiguration Audio Input USBInterface [n] Zone.....	77
xConfiguration Audio Input HDMI [n] Gain .....	66	xConfiguration Audio Input USBMicrophone [n] EchoControl Mode .....	77
xConfiguration Audio Input HDMI [n] Mode .....	66	xConfiguration Audio Input USBMicrophone [n] Gain.....	78
xConfiguration Audio Input HDMI [n] VideoAssociation MuteOnInactiveVideo .....	67	xConfiguration Audio Input USBMicrophone [n] Level.....	78
xConfiguration Audio Input Microphone [n] Channel.....	67	xConfiguration Audio Input USBMicrophone [n] Zone.....	78
xConfiguration Audio Input Microphone [n] EchoControl Mode .....	68	xConfiguration Audio Input WebView [n] Mode .....	78
xConfiguration Audio Input Microphone [n] EchoControl Dereverberation .....	68	xConfiguration Audio Microphones AGC.....	79
xConfiguration Audio Input Microphone [n] EchoControl NoiseReduction.....	69	xConfiguration Audio Microphones HdmiPassthrough MuteButton.....	79
xConfiguration Audio Input Microphone [n] Equalizer ID .....	69	xConfiguration Audio Microphones NoiseRemoval Mode.....	79
xConfiguration Audio Input Microphone [n] Equalizer Mode .....	69	xConfiguration Audio Microphones Mute Enabled .....	80
		xConfiguration Audio Microphones NearTalkerSector Mode .....	80



xConfiguration Audio Microphones PhantomPower.....	80	xConfiguration Audio USB VolumeControl Capture Mode .....	94
xConfiguration Audio Microphones UsbPassthrough MuteButton.....	81	xConfiguration Audio USB VolumeControl Capture Value.....	95
xConfiguration Audio Microphones VoiceActivityDetector Mode .....	81	xConfiguration Audio USB VolumeControl Playback Mode.....	95
xConfiguration Audio Output ARC [n] Delay DelayMs .....	81	xConfiguration Audio USB VolumeControl Playback Value.....	96
xConfiguration Audio Output ARC [n] Delay Mode.....	82	<b>Bluetooth configuration .....</b>	<b>96</b>
xConfiguration Audio Output ARC [n] Mode .....	82	xConfiguration Bluetooth Allowed .....	96
xConfiguration Audio Output ConnectorSetup.....	83	xConfiguration Bluetooth Enabled .....	96
xConfiguration Audio Output Ethernet[n] Delay DelayMs .....	83	<b>Bookings configuration.....</b>	<b>97</b>
xConfiguration Audio Output Ethernet[n] Delay Mode.....	84	xConfiguration Bookings AdhocBooking BookingTimeout .....	97
xConfiguration Audio Output Ethernet [n] Mode.....	84	xConfiguration Bookings AdhocBooking Enabled .....	97
xConfiguration Audio Output HDMI [n] Delay DelayMs.....	85	xConfiguration Bookings AllowDecline.....	97
xConfiguration Audio Output HDMI [n] Delay Mode .....	85	xConfiguration Bookings CheckIn Enabled .....	98
xConfiguration Audio Output HDMI [n] Level .....	85	xConfiguration Bookings CheckIn WindowDuration.....	98
xConfiguration Audio Output HDMI [n] Gain .....	86	xConfiguration Bookings ProtocolPriority.....	99
xConfiguration Audio Output HDMI [n] Mode .....	86	<b>BYOD configuration .....</b>	<b>99</b>
xConfiguration Audio Output InternalSpeaker Mode.....	87	xConfiguration BYOD HidForwarding Enabled .....	99
xConfiguration Audio Output Line [n] Channel .....	87	xConfiguration BYOD QRCodePairing .....	99
xConfiguration Audio Output Line [n] Delay DelayMs.....	88	xConfiguration BYOD TouchForwarding Enabled .....	100
xConfiguration Audio Output Line [n] Delay Mode .....	88	xConfiguration BYOD USBCXapi .....	100
xConfiguration Audio Output Line [n] Equalizer ID.....	89	<b>CallHistory configuration .....</b>	<b>100</b>
xConfiguration Audio Output Line [n] Equalizer Mode .....	89	xConfiguration CallHistory Mode.....	100
xConfiguration Audio Output Line [n] Level.....	89	xConfiguration CallHistory Recents DisplayName.....	100
xConfiguration Audio Output Line [n] Gain .....	90	<b>Cameras configuration .....</b>	<b>101</b>
xConfiguration Audio Output Line [n] Mode .....	90	xConfiguration Cameras Background Enabled.....	101
xConfiguration Audio Output Line [n] OutputType.....	90	xConfiguration Cameras Background UserImagesAllowed .....	101
xConfiguration Audio Output USBC [n] Mode .....	91	xConfiguration Cameras Camera [n] AssignedSerialNumber .....	101
xConfiguration Audio Output USBInterface [n] Mode.....	91	xConfiguration Cameras Camera [n] Backlight DefaultMode .....	102
xConfiguration Audio Panning Mode.....	91	xConfiguration Cameras Camera [n] Brightness Algorithm.....	102
xConfiguration Audio Panning HeadsetAnalog BinauralProcessing .....	91	xConfiguration Cameras Camera [n] Brightness DefaultLevel .....	103
xConfiguration Audio Panning HeadsetAnalog Mode .....	92	xConfiguration Cameras Camera [n] Brightness Mode .....	103
xConfiguration Audio Panning HeadsetUSB BinauralProcessing .....	92	xConfiguration Cameras Camera [n] Flip.....	104
xConfiguration Audio Panning HeadsetUSB Mode .....	92	xConfiguration Cameras Camera [n] Focus Mode.....	104
xConfiguration Audio Placement.....	92	xConfiguration Cameras Camera [n] Gamma Level.....	105
xConfiguration Audio SoundsAndAlerts RingTone.....	93		
xConfiguration Audio SoundsAndAlerts RingVolume.....	93		
xConfiguration Audio Ultrasound MaxVolume.....	93		
xConfiguration Audio USB Mode.....	94		

xConfiguration Cameras Camera [n] Gamma Mode.....	105	xConfiguration Conference DefaultCall Protocol.....	118
xConfiguration Cameras Camera [n] IrCutFilter Mode .....	106	xConfiguration Conference DefaultCall Rate.....	119
xConfiguration Cameras Camera [n] IrCutFilter Threshold.....	106	xConfiguration Conference DefaultCall Webex Rate.....	119
xConfiguration Cameras Camera [n] Mirror.....	107	xConfiguration Conference DoNotDisturb DefaultTimeout .....	119
xConfiguration Cameras Camera [n] VideoFormat.....	107	xConfiguration Conference Diagnostics StreamStatusOverlay.....	120
xConfiguration Cameras Camera [n] Whitebalance Mode .....	108	xConfiguration Conference EmbeddedApp NotificationsOnly .....	120
xConfiguration Cameras Camera [n] Whitebalance Level .....	108	xConfiguration Conference Encryption Mode .....	120
xConfiguration Cameras Camera ColorSaturation Level.....	108	xConfiguration Conference EndToEndEncryption Identity PreferredDomain .....	121
xConfiguration Cameras Camera ExposureCompensation Level .....	109	xConfiguration Conference FarEndControl Mode .....	121
xConfiguration Cameras Camera Framerate.....	109	xConfiguration Conference FarEndControl SignalCapability.....	121
xConfiguration Cameras PowerLine Frequency.....	109	xConfiguration Conference FarendMessage Mode .....	122
xConfiguration Cameras PresenterTrack CameraPosition Pan .....	109	xConfiguration Conference HideNonVideo OnCall Mode .....	122
xConfiguration Cameras PresenterTrack CameraPosition Tilt.....	110	xConfiguration Conference JoinLeaveNotifications.....	122
xConfiguration Cameras PresenterTrack CameraPosition Zoom .....	110	xConfiguration Conference MaxReceiveCallRate .....	122
xConfiguration Cameras PresenterTrack Connector.....	110	xConfiguration Conference MaxTransmitCallRate.....	123
xConfiguration Cameras PresenterTrack Enabled.....	110	xConfiguration Conference MaxMultisiteReceiveRate .....	123
xConfiguration Cameras PresenterTrack PresenterDetectedStatus .....	111	xConfiguration Conference MaxMultisiteTransmitRate.....	124
xConfiguration Cameras PresenterTrack TriggerZone.....	111	xConfiguration Conference MicUnmuteOnDisconnect Mode .....	124
xConfiguration Cameras SpeakerTrack DefaultBehavior.....	112	xConfiguration Conference Multipoint Mode .....	125
xConfiguration Cameras SpeakerTrack Frames Mode .....	112	xConfiguration Conference MultiStream Mode .....	125
xConfiguration Cameras SpeakerTrack HeadDetectorRange .....	113	xConfiguration Conference PeopleFocus OnCall Mode.....	126
xConfiguration Cameras SpeakerTrack MeetingZone Area .....	113	xConfiguration Conference Webex CallProtocollIPStack.....	126
xConfiguration Cameras SpeakerTrack MeetingZone Mode.....	114	<b>FacilityService configuration .....</b>	<b>127</b>
xConfiguration Cameras SpeakerTrack ZoomRange MaxZoomFactor .....	114	xConfiguration FacilityService Service [n] CallType.....	127
xConfiguration Cameras SpeakerTrack Mode.....	115	xConfiguration FacilityService Service [n] Name .....	127
xConfiguration Cameras SpeakerTrack Closeup.....	115	xConfiguration FacilityService Service [n] Number .....	127
xConfiguration Cameras SpeakerTrack TrackingMode .....	116	xConfiguration FacilityService Service [n] Type .....	127
xConfiguration Cameras SpeakerTrack ConnectorDetection Mode.....	116	<b>Files configuration .....</b>	<b>128</b>
xConfiguration Cameras SpeakerTrack ConnectorDetection CameraLeft.....	116	xConfiguration Files Services OneDrive TemporaryPersonalSignIn.....	128
xConfiguration Cameras SpeakerTrack ConnectorDetection CameraRight.....	116	xConfiguration Files Services Webex Spaces.....	128
xConfiguration Cameras SpeakerTrack Whiteboard Mode .....	117	<b>GPIO configuration .....</b>	<b>128</b>
<b>Conference configuration.....</b>	<b>117</b>	xConfiguration GPIO Pin [n] Mode.....	128
xConfiguration Conference AutoAnswer Mode.....	117	<b>H323 configuration.....</b>	<b>129</b>
xConfiguration Conference AutoAnswer Mute.....	117	xConfiguration H323 Authentication Mode .....	129
xConfiguration Conference AutoAnswer Delay.....	118		
xConfiguration Conference CapsetFilter .....	118		

xConfiguration H323 Authentication LoginName .....	129
xConfiguration H323 Authentication Password.....	129
xConfiguration H323 CallSetup Mode.....	129
xConfiguration H323 Encryption AES256Support.....	130
xConfiguration H323 Encryption KeySize.....	130
xConfiguration H323 Gatekeeper Address.....	130
xConfiguration H323 H323Alias E164 .....	130
xConfiguration H323 H323Alias ID.....	131
xConfiguration H323 NAT Mode.....	131
xConfiguration H323 NAT Address .....	132
<b>HttpClient configuration .....</b>	<b>132</b>
xConfiguration HttpClient Mode.....	132
xConfiguration HttpClient AllowHTTP .....	132
xConfiguration HttpClient AllowInsecureHTTPS .....	133
xConfiguration HttpClient UseHttpProxy.....	133
<b>HttpFeedback configuration.....</b>	<b>133</b>
xConfiguration HttpFeedback TlsVerify.....	133
xConfiguration HttpFeedback UseHttpProxy .....	134
<b>Logging configuration .....</b>	<b>134</b>
xConfiguration Logging CloudUpload Mode .....	134
xConfiguration Logging External Mode .....	135
xConfiguration Logging External Protocol.....	135
xConfiguration Logging External Server Address .....	135
xConfiguration Logging External Server Port.....	135
xConfiguration Logging External TlsVerify .....	136
xConfiguration Logging Internal Mode .....	136
xConfiguration Logging Mode .....	136
<b>Macros configuration.....</b>	<b>137</b>
xConfiguration Macros EvaluateTranspiled.....	137
xConfiguration Macros Mode .....	137
xConfiguration Macros AutoStart.....	137
xConfiguration Macros Diagnostics JavascriptErrors.....	138
xConfiguration Macros UnresponsiveTimeout .....	138

<b>MicrosoftTeams configuration.....</b>	<b>138</b>
xConfiguration MicrosoftTeams Diagnostics ShowUnsupportedConsoleNotification .....	138
<b>Network configuration .....</b>	<b>139</b>
xConfiguration Network [n] DNS DNSSEC Mode .....	139
xConfiguration Network [n] DNS Domain Name.....	139
xConfiguration Network [n] DNS Server [m] Address.....	139
xConfiguration Network [n] IEEE8021X Mode.....	139
xConfiguration Network [n] IEEE8021X TlsVerify .....	140
xConfiguration Network [n] IEEE8021X UseClientCertificate.....	140
xConfiguration Network [n] IEEE8021X Identity .....	140
xConfiguration Network [n] IEEE8021X Password .....	141
xConfiguration Network [n] IEEE8021X AnonymouIdentity.....	141
xConfiguration Network [n] IEEE8021X Eap Md5.....	141
xConfiguration Network [n] IEEE8021X Eap Ttls .....	141
xConfiguration Network [n] IEEE8021X Eap Tls .....	142
xConfiguration Network [n] IEEE8021X Eap Peap.....	142
xConfiguration Network [n] IPStack.....	142
xConfiguration Network [n] IPv4 Assignment.....	143
xConfiguration Network [n] IPv4 Address.....	143
xConfiguration Network [n] IPv4 Gateway.....	143
xConfiguration Network [n] IPv4 InterfacelIdentifier.....	143
xConfiguration Network [n] IPv4 SubnetMask.....	144
xConfiguration Network [n] IPv6 Assignment.....	144
xConfiguration Network [n] IPv6 Address .....	145
xConfiguration Network [n] IPv6 Gateway.....	145
xConfiguration Network [n] IPv6 DHCPOptions.....	145
xConfiguration Network [n] IPv6 InterfacelIdentifier .....	146
xConfiguration Network [n] MTU .....	146
xConfiguration Network [n] QoS Mode.....	146
xConfiguration Network [n] QoS Diffserv Audio.....	147
xConfiguration Network [n] QoS Diffserv Video.....	147
xConfiguration Network [n] QoS Diffserv Data .....	148
xConfiguration Network [n] QoS Diffserv Signalling.....	148
xConfiguration Network [n] QoS Diffserv ICMPv6.....	149
xConfiguration Network [n] QoS Diffserv NTP.....	149
xConfiguration Network [n] RemoteAccess Allow.....	150

xConfiguration Network [n] Speed .....	150
xConfiguration Network [n] VLAN Voice Mode.....	151
xConfiguration Network [n] VLAN Voice VlanId.....	151
<b>NetworkServices configuration .....</b>	<b>151</b>
xConfiguration NetworkServices CDP Mode .....	151
xConfiguration NetworkServices H323 Mode.....	151
xConfiguration NetworkServices HTTP Mode.....	152
xConfiguration NetworkServices HTTP Proxy LoginName .....	152
xConfiguration NetworkServices HTTP Proxy Mode .....	152
xConfiguration NetworkServices HTTP Proxy PACUrl .....	153
xConfiguration NetworkServices HTTP Proxy Password.....	153
xConfiguration NetworkServices HTTP Proxy Url.....	153
xConfiguration NetworkServices HTTPS Server MinimumTLSVersion .....	153
xConfiguration NetworkServices HTTPS StrictTransportSecurity .....	154
xConfiguration NetworkServices HTTPS VerifyClientCertificate .....	154
xConfiguration NetworkServices NTP Mode.....	154
xConfiguration NetworkServices NTP Server [n] Address .....	154
xConfiguration NetworkServices NTP Server [n] Key.....	155
xConfiguration NetworkServices NTP Server [n] KeyId.....	155
xConfiguration NetworkServices NTP Server [n] KeyAlgorithm .....	155
xConfiguration NetworkServices SIP Mode .....	155
xConfiguration NetworkServices SMTP Mode.....	156
xConfiguration NetworkServices SMTP Server .....	156
xConfiguration NetworkServices SMTP Port .....	156
xConfiguration NetworkServices SMTP Username.....	156
xConfiguration NetworkServices SMTP Password .....	157
xConfiguration NetworkServices SMTP From.....	157
xConfiguration NetworkServices SMTP Security.....	157
xConfiguration NetworkServices SNMP CommunityName .....	157
xConfiguration NetworkServices SNMP Mode .....	158
xConfiguration NetworkServices SNMP SystemContact.....	158
xConfiguration NetworkServices SNMP SystemLocation.....	158
xConfiguration NetworkServices SSH KeyExchangeAlgorithms AllowLegacy .....	158
xConfiguration NetworkServices SSH Mode .....	159
xConfiguration NetworkServices SSH HostKeyAlgorithm.....	159
xConfiguration NetworkServices UPnP Mode.....	159

xConfiguration NetworkServices Websocket.....	160
xConfiguration NetworkServices WelcomeText.....	160
xConfiguration NetworkServices Wifi Allowed.....	160
xConfiguration NetworkServices Wifi Settings FrequencyBand .....	161
<b>Peripherals configuration .....</b>	<b>161</b>
xConfiguration Peripherals InputDevice Mode.....	161
xConfiguration Peripherals Pairing CiscoTouchPanels HttpProxy.....	162
xConfiguration Peripherals Pairing CiscoTouchPanels RemotePairing .....	162
xConfiguration Peripherals Profile Cameras .....	163
xConfiguration Peripherals Profile ControlSystems .....	163
xConfiguration Peripherals Profile TouchPanels .....	164
xConfiguration Peripherals Security Certificates SyncToPeripherals Enabled.....	164
<b>Phonebook configuration .....</b>	<b>165</b>
xConfiguration Phonebook Server [n] ID .....	165
xConfiguration Phonebook Server [n] Pagination.....	165
xConfiguration Phonebook Server [n] TlsVerify.....	166
xConfiguration Phonebook Server [n] Type.....	166
xConfiguration Phonebook Server [n] URL .....	166
<b>Provisioning configuration .....</b>	<b>167</b>
xConfiguration Provisioning Connectivity.....	167
xConfiguration Provisioning CUCM CallManagementRecords CallDiagnostics.....	167
xConfiguration Provisioning ExternalManager Address .....	167
xConfiguration Provisioning ExternalManager AlternateAddress.....	167
xConfiguration Provisioning ExternalManager Protocol .....	168
xConfiguration Provisioning ExternalManager Path .....	168
xConfiguration Provisioning ExternalManager Domain .....	168
xConfiguration Provisioning Mode.....	169
xConfiguration Provisioning LoginName .....	169
xConfiguration Provisioning Password.....	169
xConfiguration Provisioning TlsVerify.....	170
xConfiguration Provisioning WebexEdge .....	170
<b>Proximity configuration.....</b>	<b>171</b>
xConfiguration Proximity AlternatePort Enabled .....	171
xConfiguration Proximity Mode .....	171

xConfiguration Proximity Services CallControl .....	172	xConfiguration Security Fips Mode .....	181
xConfiguration Proximity Services ContentShare FromClients .....	172	xConfiguration Security Session FailedLoginsLockoutTime .....	181
xConfiguration Proximity Services ContentShare ToClients .....	172	xConfiguration Security Session InactivityTimeout .....	182
<b>RoomAnalytics configuration .....</b>	<b>173</b>	xConfiguration Security Session MaxFailedLogins .....	182
xConfiguration RoomAnalytics AmbientNoiseEstimation Interval .....	173	xConfiguration Security Session MaxSessionsPerUser .....	182
xConfiguration RoomAnalytics AmbientNoiseEstimation Mode .....	173	xConfiguration Security Session MaxTotalSessions .....	182
xConfiguration RoomAnalytics PeopleCountOutOfCall .....	173	xConfiguration Security Session ShowLastLogon .....	183
xConfiguration RoomAnalytics PeoplePresenceDetector .....	174	xConfiguration Security Xapi WebSocket ApiKey Allowed .....	183
xConfiguration RoomAnalytics PeoplePresence Input HeadDetector .....	174	<b>Sensors configuration .....</b>	<b>183</b>
xConfiguration RoomAnalytics PeoplePresence Input Ultrasound .....	174	xConfiguration Sensors Radar Mode .....	183
xConfiguration RoomAnalytics ReverberationTime Interval .....	175	xConfiguration Sensors Ultrasound Mode .....	183
xConfiguration RoomAnalytics ReverberationTime Mode .....	175	<b>SerialPort configuration .....</b>	<b>184</b>
xConfiguration RoomAnalytics RoomInUse InCall .....	176	xConfiguration SerialPort Mode .....	184
xConfiguration RoomAnalytics RoomInUse LocalUsage .....	176	xConfiguration SerialPort BaudRate .....	184
xConfiguration RoomAnalytics T3AlarmDetection Mode .....	176	xConfiguration SerialPort LoginRequired .....	184
xConfiguration RoomAnalytics T3AlarmDetection Timeout .....	176	xConfiguration SerialPort Outbound Mode .....	185
<b>RoomCleanup configuration .....</b>	<b>177</b>	xConfiguration SerialPort Outbound Port [1] BaudRate .....	185
xConfiguration RoomCleanup AutoRun ContentType TemporaryAccounts .....	177	xConfiguration SerialPort Outbound Port [1] Description .....	185
xConfiguration RoomCleanup AutoRun ContentType WebData .....	177	xConfiguration SerialPort Outbound Port [1] Parity .....	186
xConfiguration RoomCleanup AutoRun ContentType Whiteboards .....	177	<b>SIP configuration .....</b>	<b>186</b>
xConfiguration RoomCleanup AutoRun HourOfDay .....	177	xConfiguration SIP ANAT .....	186
<b>RoomScheduler configuration .....</b>	<b>178</b>	xConfiguration SIP Authentication UserName .....	186
xConfiguration RoomScheduler BookingTimeout .....	178	xConfiguration SIP Authentication Password .....	187
xConfiguration RoomScheduler Enabled .....	178	xConfiguration SIP DefaultTransport .....	187
xConfiguration UserInterface RoomScheduler State Available Color .....	179	xConfiguration SIP DisplayName .....	187
xConfiguration UserInterface RoomScheduler State Busy Color .....	179	xConfiguration SIP Ice DefaultCandidate .....	187
xConfiguration UserInterface RoomScheduler State Pending Color .....	179	xConfiguration SIP Ice Mode .....	188
<b>Security configuration .....</b>	<b>180</b>	xConfiguration SIP ListenPort .....	188
xConfiguration Security Audit Logging Mode .....	180	xConfiguration SIP MinimumTLSVersion .....	188
xConfiguration Security Audit OnError Action .....	180	xConfiguration SIP Proxy [n] Address .....	188
xConfiguration Security Audit Server Address .....	180	xConfiguration SIP TlsVerify .....	189
xConfiguration Security Audit Server Port .....	181	xConfiguration SIP Turn Server .....	189
xConfiguration Security Audit Server PortAssignment .....	181	xConfiguration SIP Turn UserName .....	189
		xConfiguration SIP Turn Password .....	189

xConfiguration SIP URI .....	190	xConfiguration Time OfficeHours OutsideOfficeHours Standby AutoWakeup .....	199
<b>Standby configuration</b> .....	<b>190</b>	xConfiguration Time OfficeHours OutsideOfficeHours Standby Delay .....	199
xConfiguration Standby BootAction .....	190	xConfiguration Time OfficeHours WorkDay End .....	199
xConfiguration Standby BrightnessDelay .....	190	xConfiguration Time OfficeHours WorkDay Start .....	200
xConfiguration Standby Control .....	191	xConfiguration Time OfficeHours WorkWeek Monday .....	200
xConfiguration Standby Delay .....	191	xConfiguration Time OfficeHours WorkWeek Tuesday .....	200
xConfiguration Standby Level Networked Delay .....	191	xConfiguration Time OfficeHours WorkWeek Wednesday .....	200
xConfiguration Standby Level Networked Mode .....	191	xConfiguration Time OfficeHours WorkWeek Thursday .....	201
xConfiguration Standby Halfwake Mode .....	192	xConfiguration Time OfficeHours WorkWeek Friday .....	201
xConfiguration Standby Signage Audio .....	192	xConfiguration Time OfficeHours WorkWeek Saturday .....	201
xConfiguration Standby Signage InteractionMode .....	192	xConfiguration Time OfficeHours WorkWeek Sunday .....	201
xConfiguration Standby Signage Mode .....	192	<b>UserInterface configuration</b> .....	<b>202</b>
xConfiguration Standby Signage RefreshInterval .....	193	xConfiguration UserInterface Accessibility IncomingCallNotification .....	202
xConfiguration Standby Signage Url .....	193	xConfiguration UserInterface Assistant Mode .....	202
xConfiguration Standby StandbyAction .....	193	xConfiguration UserInterface Assistant ProactiveMeetingJoin .....	202
xConfiguration Standby WakeupAction .....	193	xConfiguration UserInterface Bookings AdhocBooking DefaultTitle .....	202
xConfiguration Standby WakeupAtMeetingStart .....	194	xConfiguration UserInterface Bookings Visibility EarlyJoin .....	203
xConfiguration Standby WakeupOnMotionDetection .....	194	xConfiguration UserInterface Bookings Visibility JoinedParticipants Avatars .....	203
<b>SystemUnit configuration</b> .....	<b>194</b>	xConfiguration UserInterface Bookings Visibility MeetingReminder .....	203
xConfiguration SystemUnit Name .....	194	xConfiguration UserInterface Bookings Visibility Organizer .....	203
xConfiguration SystemUnit BroadcastName .....	194	xConfiguration UserInterface Bookings Visibility TentativeMeetings .....	204
xConfiguration SystemUnit CrashReporting Mode .....	195	xConfiguration UserInterface Bookings Visibility Title .....	204
xConfiguration SystemUnit CrashReporting URL .....	195	xConfiguration UserInterface Branding AwakeBranding Colors .....	204
xConfiguration SystemUnit CustomDeviceld .....	195	xConfiguration UserInterface CameraControl Presets Mode .....	204
xConfiguration SystemUnit Extension MouseSupport .....	195	xConfiguration UserInterface ContactInfo Type .....	205
xConfiguration SystemUnit Hardware USBC[1] Mode .....	196	xConfiguration UserInterface CustomMessage .....	205
xConfiguration SystemUnit SoftwareUpgrade Provider .....	196	xConfiguration UserInterface InstantMeeting Invite .....	205
<b>ThousandEyes configuration</b> .....	<b>196</b>	xConfiguration UserInterface CustomWallpaperOverlay .....	205
xConfiguration ThousandEyes ConnectionString .....	196	xConfiguration UserInterface Diagnostics Notifications .....	206
<b>Time configuration</b> .....	<b>197</b>	xConfiguration UserInterface Features Calendar Start .....	206
xConfiguration Time DateFormat .....	197	xConfiguration UserInterface Features Call AudioMute .....	206
xConfiguration Time TimeFormat .....	197	xConfiguration UserInterface Features Call CameraControls .....	206
xConfiguration Time Zone .....	197	xConfiguration UserInterface Features Call End .....	207
xConfiguration Time OfficeHours Enabled .....	199	xConfiguration UserInterface Features Call HdmiPassthrough .....	207
		xConfiguration UserInterface Features Call JoinGoogleMeet .....	207
		xConfiguration UserInterface Features Call JoinMicrosoftTeamsCVI .....	207

xConfiguration UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin .....	208	xConfiguration UserInterface RoomScheduler StatusWhenInUse .....	217
xConfiguration UserInterface Features Call JoinZoom .....	208	xConfiguration UserInterface RoomStatusMenu Visibility .....	218
xConfiguration UserInterface Features Call JoinWebex.....	208	xConfiguration UserInterface ScreenLock Policy.....	218
xConfiguration UserInterface Features Call Keypad.....	208	xConfiguration UserInterface ScreenLock Workspace Allowed .....	218
xConfiguration UserInterface Features Call LayoutControls .....	209	xConfiguration UserInterface Security Mode .....	218
xConfiguration UserInterface Features Call MidCallControls .....	209	xConfiguration UserInterface SettingsMenu Mode .....	219
xConfiguration UserInterface Features Call MusicMode.....	209	xConfiguration UserInterface SettingsMenu Visibility .....	219
xConfiguration UserInterface Features Call ParticipantList.....	209	xConfiguration UserInterface SoundEffects Mode.....	219
xConfiguration UserInterface Features Call SelfviewControls .....	210	xConfiguration UserInterface Theme Name .....	219
xConfiguration UserInterface Features Call Start.....	210	xConfiguration UserInterface UsbPromotion.....	220
xConfiguration UserInterface Features Call VideoMute .....	210	xConfiguration UserInterface WebcamOnlyMode.....	220
xConfiguration UserInterface Features Call Webcam .....	210	xConfiguration UserInterface Whiteboard ActivityIndicators .....	220
xConfiguration UserInterface Features Files Start .....	211	xConfiguration UserInterface Whiteboard Deletion.....	220
xConfiguration UserInterface Features HideAll .....	211	xConfiguration UserInterface Whiteboard ShareInCall .....	221
xConfiguration UserInterface Features Share Start .....	211	<b>UserManagement configuration .....</b>	<b>221</b>
xConfiguration UserInterface Features Whiteboard Start .....	211	xConfiguration UserManagement LDAP Admin Filter.....	221
xConfiguration UserInterface Help Tips .....	212	xConfiguration UserManagement LDAP Admin Group.....	221
xConfiguration UserInterface HomeScreen Dashboard .....	212	xConfiguration UserManagement LDAP Attribute.....	222
xConfiguration UserInterface HomeScreen Peripherals WebApp URL.....	212	xConfiguration UserManagement LDAP BaseDN .....	222
xConfiguration UserInterface KeyTones Mode .....	212	xConfiguration UserManagement LDAP BindDN.....	222
xConfiguration UserInterface Kiosk Mode.....	213	xConfiguration UserManagement LDAP BindPassword.....	222
xConfiguration UserInterface Kiosk URL .....	213	xConfiguration UserManagement LDAP Encryption.....	223
xConfiguration UserInterface Language.....	213	xConfiguration UserManagement LDAP MemberAttribute.....	223
xConfiguration UserInterface LedControl Mode .....	213	xConfiguration UserManagement LDAP MinimumTLSVersion .....	223
xConfiguration UserInterface LiveAnnotation Enabled.....	214	xConfiguration UserManagement LDAP Mode.....	224
xConfiguration UserInterface MeetingJoin CVITenants .....	214	xConfiguration UserManagement LDAP Server Address.....	224
xConfiguration UserInterface MuteWarning .....	214	xConfiguration UserManagement LDAP Server Port .....	224
xConfiguration UserInterface NameAndSiteLabels Mode.....	215	xConfiguration UserManagement LDAP VerifyServerCertificate .....	225
xConfiguration UserInterface OSD EncryptionIndicator .....	215	xConfiguration UserManagement PasswordPolicy Complexity MinimumDigits.....	225
xConfiguration UserInterface OSD HalfwakeMessage.....	215	xConfiguration UserManagement PasswordPolicy Complexity MinimumLength.....	225
xConfiguration UserInterface OSD Mode.....	215	xConfiguration UserManagement PasswordPolicy Complexity MinimumLowercase .....	226
xConfiguration UserInterface OSD Output .....	216	xConfiguration UserManagement PasswordPolicy Complexity MinimumSpecial.....	226
xConfiguration UserInterface Phonebook DefaultSearchFilter.....	216	xConfiguration UserManagement PasswordPolicy Complexity MinimumUppercase .....	227
xConfiguration UserInterface Phonebook Mode .....	216	xConfiguration UserManagement PasswordPolicy MaxLifetime.....	227
xConfiguration UserInterface Proximity Notifications.....	217	xConfiguration UserManagement PasswordPolicy ReuseLimit.....	227
xConfiguration UserInterface RoomScheduler AmbientTemperature Show .....	217		
xConfiguration UserInterface RoomScheduler PeopleCount Current.....	217		

<b>Video configuration</b> .....	<b>228</b>	<b>xConfiguration Video Output Connector [n] Resolution</b> .....	<b>246</b>
xConfiguration Video DefaultLayoutFamily Local .....	228	xConfiguration Video Output Connector [n] RGBQuantizationRange .....	247
xConfiguration Video DefaultLayoutFamily LocalContent .....	228	xConfiguration Video Output HDMI Passthrough Allowed .....	247
xConfiguration Video DefaultMainSource .....	229	xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Mode .....	248
xConfiguration Video Input AirPlay Beacon.....	229	xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Name .....	248
xConfiguration Video Input AirPlay DiscoveryInstructions NetworkName .....	230	xConfiguration Video Output HDMI Passthrough OutputConnector .....	249
xConfiguration Video Input AirPlay DiscoveryInstructions ShowNetworkInfo.....	230	xConfiguration Video Output HDMI Passthrough AutoDisconnect Enabled.....	249
xConfiguration Video Input AirPlay Mode.....	230	xConfiguration Video Output HDMI Passthrough AutoDisconnect Delay.....	249
xConfiguration Video Input AirPlay Password .....	230	xConfiguration Video Output MirroringType .....	250
xConfiguration Video Input AirPlay SecurityMode .....	231	xConfiguration Video Output Webcam USBMode.....	250
xConfiguration Video Input CameraConfigMode .....	231	xConfiguration Video Presentation DefaultSource .....	250
xConfiguration Video Input Connector [n] CameraControl Camerald .....	232	xConfiguration Video Presentation Priority .....	251
xConfiguration Video Input Connector [n] CameraControl Mode.....	232	xConfiguration Video Selfview Default FullscreenMode .....	251
xConfiguration Video Input Connector [n] CEC Mode .....	233	xConfiguration Video Selfview Default Mode.....	252
xConfiguration Video Input Connector [n] HDCP Mode .....	233	xConfiguration Video Selfview Default OnMonitorRole.....	252
xConfiguration Video Input Connector [n] InputSourceType .....	234	xConfiguration Video Selfview Default PIPPosition .....	253
xConfiguration Video Input Connector [n] MaxResolution.....	234	xConfiguration Video Selfview OnCall Mode .....	253
xConfiguration Video Input Connector [n] Name.....	235	xConfiguration Video Selfview OnCall Duration .....	253
xConfiguration Video Input Connector [n] PreferredResolution .....	235		
xConfiguration Video Input Connector [n] PresentationSelection .....	236	<b>VoiceControl configuration</b> .....	<b>254</b>
xConfiguration Video Input Connector [n] Quality .....	237	xConfiguration VoiceControl Wakeword Mode .....	254
xConfiguration Video Input Connector [n] RGBQuantizationRange .....	238		
xConfiguration Video Input Connector [n] Visibility .....	238	<b>WebEngine configuration</b> .....	<b>254</b>
xConfiguration Video Input Miracast Mode .....	239	xConfiguration WebEngine Certificates RevocationChecks NetworkAccess .....	254
xConfiguration Video Input Miracast MaxBitrate.....	239	xConfiguration WebEngine Features AllowDeviceCertificate .....	254
xConfiguration Video Input Miracast Pin Length .....	239	xConfiguration WebEngine Features GpuRasterization.....	255
xConfiguration Video Input Miracast PresentationSelection.....	240	xConfiguration WebEngine Features LocalWebAppManagement .....	255
xConfiguration Video Input Miracast Quality .....	240	xConfiguration WebEngine Features Peripherals AudioOutput.....	256
xConfiguration Video Input Miracast Transport.....	241	xConfiguration WebEngine Features Peripherals WebGL .....	256
xConfiguration Video Monitors .....	241	xConfiguration WebEngine Features WebGL .....	256
xConfiguration Video Output Connector [n] BrightnessMode .....	242	xConfiguration WebEngine Features SipUrlHandler.....	256
xConfiguration Video Output Connector [n] CEC Mode .....	242	xConfiguration WebEngine Features Xapi Peripherals AllowedHosts Hosts.....	257
xConfiguration Video Output Connector[n] ContentType.....	243	xConfiguration WebEngine MinimumTLSVersion .....	257
xConfiguration Video Output Connector [n] HDCPPolicy.....	243	xConfiguration WebEngine Mode.....	257
xConfiguration Video Output Connector [n] Location HorizontalOffset.....	244	xConfiguration WebEngine RemoteDebugging .....	258
xConfiguration Video Output Connector [n] Location VerticalOffset.....	245	xConfiguration WebEngine UseHttpProxy.....	258
xConfiguration Video Output Connector [n] MonitorRole.....	245		



<b>Webex configuration</b> .....	258
xConfiguration Webex CloudProximity GuestShare .....	258
xConfiguration Webex CloudProximity ManualPairing .....	258
xConfiguration Webex CloudUpgrades Mode .....	259
xConfiguration Webex Hotdesking DefaultBookingEndTime .....	259
xConfiguration Webex Meetings HttpProxyForMedia Mode .....	260
xConfiguration Webex Meetings JoinProtocol .....	260
xConfiguration Webex Meetings MeetingChatNotifications Mode .....	261
xConfiguration Webex Meetings MeetingChatPreview .....	261
<b>WebRTC configuration</b> .....	262
xConfiguration WebRTC Provider MicrosoftTeams CompatibilityMode .....	262
<b>Zoom configuration</b> .....	262
xConfiguration Zoom DefaultDomain .....	262
xConfiguration Zoom DialStringOptions .....	262

## App configuration

### xConfiguration Apps WallpaperBundles HalfwakeImage

*Applies to: All products*

Requires user role: ADMIN

In some scenarios, for example when UserInterface Theme Name is set to Night, a colored background will show in halfwake mode. You can turn it off with this setting, to always use a black background.

#### USAGE:

xConfiguration Apps WallpaperBundles HalfwakeImage: HalfwakeImage  
where

HalfwakeImage:

*Auto/Off*

**Auto:** The background is colored in halfwake mode in some scenarios.

**Off:** The background is black in halfwake mode.

Default value:

*Auto*

## Audio configuration

### xConfiguration Audio ConnectorSetup

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR

You can choose whether to set up the audio inputs and outputs manually, or to let the video device do it automatically based on the type of camera you have and which screens are connected.

In Auto mode, you cannot add, update, delete or connect audio inputs and outputs manually. Therefore the following API commands do not have any effect: xCommand Audio Setup \*, xCommand Audio LocalInput \*, and xCommand Audio LocalOutput \*.

When going from Manual to Auto mode: The existing Audio setup is cleared (xCommand Audio Setup Clear), and the input and output groups are set up according to product defaults. The Audio Output HDMI [n] Mode and Audio Output ARC [1] Mode settings are set to their default value.

When going from Auto to Manual mode: The HDMI and ARC output connectors are connected to the main output group. The Audio Output HDMI [n] Mode and Audio Output ARC [1] Mode settings are not changed.

AVIntegrator option required.

#### USAGE:

xConfiguration Audio ConnectorSetup: ConnectorSetup  
where

ConnectorSetup:

*Auto/Manual*

**Auto:** For Codec EQ, the video device will play audio either through the camera, or through a screen that is connected to one of the HDMI outputs. The video device chooses to play the audio on the first available device in the following list:

1. A Quad Camera that has camera control connected to one of the camera control connectors of the video device, and HDMI connected to the camera input of the video device (HDMI 1 input). Additionally, the Audio Output ARC [1] Mode and Video Input Connector [1] CEC Mode settings must be On. The audio return channel (ARC) on the HDMI 1 input is used to play audio through the camera.
2. A screen that is connected to the HDMI 1 output, provided that the Audio Output HDMI [1] Mode setting is On.
3. A screen that is connected to the HDMI 2 output, provided that the Audio Output HDMI [2] Mode setting is On.
4. A screen that is connected to the HDMI 3 output, provided that the Audio Output HDMI [3] Mode setting is On.

When audio is played out through the Quad Camera, the video device will check the delay between a screen and the camera, so that it can synchronize the audio on the camera with the video on screen (lip-synchronization). In order to check the delay, the video device communicates with the screen via CEC (Consumer Electronics Control).

The first screen in the list above that supports CEC and has the Video Output Connector [n] CEC Mode set to On, is used for the delay assessment.

When audio is played out through a screen, additional lip-synchronization delay is the responsibility of the screen. The video device will not add any delay.

For Room Kit EQX, the video device will play audio through its integrated loudspeaker system, provided that Audio Output ARC [1] Mode and Audio Output InternalSpeaker Mode is On, and Audio Output Ethernet [2] Mode is On.

**Manual:** You must set up the audio inputs and outputs manually using the Audio Console application or the API (xCommand Audio LocalInput \*, and xCommand Audio LocalOutput \*).

For Room Kit EQX, connected screens may be used for audio output if the connectors are explicitly added using the Audio Console application or the API (xCommand Audio LocalOutput \*). In that case, the screens will play a stereo down mix of the audio that is played on the built-in loudspeaker system. Ultrasound signals will not play through the screens or line outputs; only through the integrated loudspeaker system.

Default value:

*Auto*

## xConfiguration Audio DefaultVolume

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define the default volume for the speakers. For all devices except the Desk series, the volume is set to this level when you switch on the device or restart it. Desk devices remember the last audio level set by the user also after a restart.

You can use the controls on the user interface or the Audio Volume commands to change the volume both in call and out of call. The Audio Volume SetToDefault command resets the volume to the default value.

### USAGE:

xConfiguration Audio DefaultVolume: DefaultVolume

where

DefaultVolume:

*Integer (0..100)*

**Range:** Select a value between 1 and 100. This corresponds to the dB range from -34.5 dB to 15 dB, in steps of 0.5 dB. If set to 0 the audio is switched off.

Default value:

50 [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk ]

70 [ Board BoardPro BoardProG2 ]

## xConfiguration Audio Ethernet Encryption

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Decide whether to allow unencrypted audio streams on the video device's internal network.

Note that the AES67 standard doesn't support encrypted media streams. Therefore, this setting must be set to Optional to allow AES67 audio.

Codec EQ, Codec EQX, Room Bar Pro: AVIntegrator option required.

### USAGE:

xConfiguration Audio Ethernet Encryption: Encryption

where

Encryption:

*Optional/Required*

**Optional:** Allow both encrypted and unencrypted media streams.

**Required:** Only allow encrypted media streams.

Default value:

*Required*

## xConfiguration Audio Ethernet SAPDiscovery Address

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Set the multicast address that the video device will both listen for stream announcements on and announce its own streams on. Only change this setting if required by your peripherals.

Codec EQ, Codec EQX, Room Bar Pro: AVIntegrator option required.

### USAGE:

xConfiguration Audio Ethernet SAPDiscovery Address: "Address"

where

Address:

*String (0, 64)*

A valid multicast address for stream announcements.

Default value:

*239.255.255.255*

## xConfiguration Audio Ethernet SAPDiscovery Mode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

The video device supports discovery using SAP (Service Announcement Protocol). Therefore, when enabled, the video device can both discover streams that are announced by peripherals and announce its own streams. Which IP address to listen for and send announcements on, are decided in the Audio Ethernet SAPDiscovery Address setting.

Codec EQ, Codec EQX, Room Bar Pro: AVIntegrator option required.

### USAGE:

xConfiguration Audio Ethernet SAPDiscovery Mode: Mode

where

Mode:

*Off/On*

**Off:** The device will not listen for or send stream announcements.

**On:** The device can both discover streams announced by peripherals and announce its own streams.

Default value:

*Off*

## xConfiguration Audio Input ARC [n] Mode

*Applies to: CodecPlus CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Each HDMI output has an associated audio return channel (ARC). You can use the ARC to send audio from a screen or TV, which is connected to the HDMI output, to the video device. You can decide for each HDMI output connector (n) separately, whether or not to allow audio transmission.

### USAGE:

xConfiguration Audio Input ARC [n] Mode: Mode

where

n: Unique ID that identifies the ARC input.

Range: 1..2 [ [CodecPlus](#) ]

Range: 1..3 [ [CodecPro](#) ]

Range: 3..3 for Room 70 Dual G2; 2..3 for Room 70 Single G2 [ [Room70G2](#) ]

Range: 3..3 [ [RoomPanorama/Room70Panorama](#) ]

Mode:

*Off/On*

**Off:** Disable the ARC channel of HDMI output n (audio is not sent to the video device).

**On:** Enable the ARC channel of HDMI output n (audio is sent to the video device).

Default value:

*On*

## xConfiguration Audio Input Ethernet [n] Channel [1..8] Gain

*Applies to: RoomBarPro RoomKitEQX CodecEQ BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the gain for the specified channel of an Ethernet input, e.g. a microphone or audio interface. We allow up to 8 channels per input, and the gain is set separately for each channel.

The gain should be adjusted to suit the output level of the connected audio source. The gain can be tuned in steps of 1 dB. If the gain is set too high, the audio signal will be clipped. If the gain is set too low, the audio signal-to-noise ratio will be degraded; however, this is usually preferable to clipping. Note that unprocessed speech signals typically contain significant level variations, making it very important to allow for sufficient signal headroom.

### USAGE:

xConfiguration Audio Input Ethernet [n] Channel [1..8] Gain: Gain

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [*BoardProG2*]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [*RoomBarPro RoomKitEQX CodecEQ*]

Gain:

Integer (0..70)

**Range:** Select the gain in decibel (dB).

Default value:

45

## xConfiguration Audio Input Ethernet [n] Channel [1..8] Level

*Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro*

Requires user role: ADMIN, INTEGRATOR

Set the gain for the specified channel of an Ethernet input, e.g. a microphone or audio interface. We allow up to 8 channels per input, and the gain is set separately for each channel.

The gain should be adjusted to suit the output level of the connected audio source. The gain can be tuned in steps of 1 dB. If the gain is set too high, the audio signal will be clipped. If the gain is set too low, the audio signal-to-noise ratio will be degraded; however, this is usually preferable to clipping. Note that unprocessed speech signals typically contain significant level variations, making it very important to allow for sufficient signal headroom.

### USAGE:

xConfiguration Audio Input Ethernet [n] Channel [1..8] Level: Level

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [*BoardPro*]

Range: 1..8 [*CodecPro Room70G2*]

Range: 1..6 [*RoomPanorama/Room70Panorama*]

Level:

Integer (0..70)

**Range:** Select the gain in decibel (dB).

Default value:

45

## xConfiguration Audio Input Ethernet [n] Channel [1..8] Mode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio on the specified channel of an Ethernet input. We allow up to 8 channels per input, and the mode is set separately for each channel.

Setting Audio Input Ethernet [n] Mode to Off will override the effect of the individual channel mode settings.

### USAGE:

```
xConfiguration Audio Input Ethernet [n] Channel [1..8] Mode: Mode
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..8 [CodecPro Room70G2]

Range: 1..3 [BoardPro BoardProG2]

Range: 1..6 [RoomPanorama/Room70Panorama]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [RoomBarPro RoomKitEQX CodecEQ]

Mode:

*Off/On*

*Off*: Disable audio from this channel.

*On*: Enable audio from this channel.

Default value:

*On*

## xConfiguration Audio Input Ethernet [n] Channel [1..8] Pan

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set which mix channel (left or right) this input channel is mixed to. For a single channel mix this setting has no effect.

### USAGE:

```
xConfiguration Audio Input Ethernet [n] Channel [1..8] Pan: Pan
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [BoardPro BoardProG2]

Range: 1..8 [CodecPro Room70G2]

Range: 1..6 [RoomPanorama/Room70Panorama]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [RoomBarPro RoomKitEQX CodecEQ]

Pan:

*Left/Right/Mono*

*Left*: Pan to the left mix channel.

*Right*: Pan to the right mix channel

*Mono*: Pan equally to both the left and right channel.

Default value:

*Mono*

## xConfiguration Audio Input Ethernet [n] Channel [1..8] Zone

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

This command is mainly used for Presenter and Audience room setup. It's mainly used from Control Hub when setting up the feature. During setup we recommend you add information whether the microphone is facing the stage (presenter) or the audience. This information allows for more accurate automatic switching between the local, remote, and hybrid presenter modes.

### USAGE:

xConfiguration Audio Input Ethernet [n] Channel [1..8] Zone: Zone

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [[BoardPro](#) [BoardProG2](#)]

Range: 1..8 [[CodecPro](#) [Room70G2](#)]

Range: 1..6 [[RoomPanorama/Room70Panorama](#)]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#)]

Zone:

*Integer (1..3)*

- 1: Use this value, when the direction of the microphone is not used.
- 2: Use this value when the microphone is set up to face the stage area
- 3: Use this value when the microphone is set up to face the audience.

Default value:

1

## xConfiguration Audio Input Ethernet [n] EchoControl Mode

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

The echo canceller continuously adjusts itself to the audio characteristics of the room, and compensates for any changes it detects in the audio environment. If the changes in the audio conditions are significant, the echo canceller may take a second or two to re-adjust.

### USAGE:

xConfiguration Audio Input Ethernet [n] EchoControl Mode: Mode

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [[BoardPro](#) [BoardProG2](#)]

Range: 1..8 [[CodecPro](#) [Room70G2](#)]

Range: 1..6 [[RoomPanorama/Room70Panorama](#)]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#)]

Mode:

*Off/On*

**Off**: Turn off the echo control. Recommended if echo cancellation is performed by external equipment.

**On**: Turn on the echo control. Recommended, in general, to prevent the far end from hearing their own audio. Once selected, echo cancellation is active at all times.

Default value:

*On*

## xConfiguration Audio Input Ethernet [n] EchoControl NoiseReduction

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The video device has built-in noise reduction, which reduces stationary background noise, for example noise from air-conditioning systems, cooling fans etc. In addition, a high pass filter (Humfilter) reduces very low frequency noise. Noise reduction requires that Audio Input Ethernet [n] EchoControl Mode is enabled.

### USAGE:

```
xConfiguration Audio Input Ethernet [n] EchoControl NoiseReduction:  
NoiseReduction
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [*BoardPro BoardProG2*]

Range: 1..8 [*CodecPro Room70G2*]

Range: 1..6 [*RoomPanorama/Room70Panorama*]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [*RoomBarPro RoomKitEQX CodecEQ*]

NoiseReduction:

*Off/On*

**Off**: Turn off the noise reduction.

**On**: Turn on the noise reduction. Recommended in the presence of low frequency noise.

Default value:

*On*

## xConfiguration Audio Input Ethernet [n] Equalizer ID

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Select which equalizer preset to apply to this input. If this input has more than one channel, the processing will apply equally to all of them.

### USAGE:

```
xConfiguration Audio Input Ethernet [n] Equalizer ID: ID
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [*BoardPro BoardProG2*]

Range: 1..8 [*CodecPro Room70G2*]

Range: 1..6 [*RoomPanorama/Room70Panorama*]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [*RoomBarPro RoomKitEQX CodecEQ*]

ID:

*Integer (1..8)*

The equalizer preset number.

Default value:

*1*



## xConfiguration Audio Input Ethernet [n] Equalizer Mode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Enable or disable the equalization processing for this input.

### USAGE:

xConfiguration Audio Input Ethernet [n] Equalizer Mode: Mode

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [BoardPro BoardProG2]

Range: 1..8 [CodecPro Room70G2]

Range: 1..6 [RoomPanorama/Room70Panorama]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [RoomBarPro RoomKitEQX CodecEQ]

Mode:

*Off/On*

**Off**: Do not apply equalization processing.

**On**: Apply equalization processing.

Default value:

*Off*

## xConfiguration Audio Input Ethernet [n] Mode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio from this Ethernet input.

If this input has more than one channel, see also the Audio Input Ethernet [n] Channel [1..8] Mode setting.

### USAGE:

xConfiguration Audio Input Ethernet [n] Mode: Mode

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1..3 [BoardPro BoardProG2]

Range: 1..8 [CodecPro Room70G2]

Range: 1..6 [RoomPanorama/Room70Panorama]

Range: Without AVIntegrator option: 1..3 With AVIntegrator option: 1..8 [RoomBarPro RoomKitEQX CodecEQ]

Mode:

*Off/On*

**Off**: Disable all audio from this input.

**On**: Enable audio from active channels.

Default value:

*On*

## xConfiguration Audio Input HDMI [n] Level

*Applies to:* RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board BoardPro

Requires user role: ADMIN, INTEGRATOR

Set the gain on the HDMI input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input HDMI [n] Level: Level

where

n: Unique ID that identifies the HDMI input.

Range: 2..3 [CodecPlus Room70/Room55D]

Range: 1..5 [CodecPro]

Range: 1..1 [RoomKit RoomKitMini RoomBar DeskPro Desk Board BoardPro BoardProG2]

Range: 1..2 [Room55]

Range: 2..5 [Room70G2 RoomPanorama/Room70Panorama]

Level:

Integer (-24..0)

**Range:** Select the gain in decibel (dB).

Default value:

-5

## xConfiguration Audio Input HDMI [n] Gain

*Applies to:* RoomBarPro RoomKitEQX CodecEQ BoardProG2

Requires user role: ADMIN, INTEGRATOR

Set the gain on the HDMI input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input HDMI [n] Gain: Gain

where

n: Unique ID that identifies the HDMI input.

Range: 1..3 [RoomKitEQX CodecEQ]

Range: 1..1 [RoomBarPro BoardProG2]

Gain:

Integer (-24..0)

**Range:** Select the gain in decibel (dB).

Default value:

-5

## xConfiguration Audio Input HDMI [n] Mode

*Applies to:* RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Define if the audio on the HDMI input connector shall be enabled.

### USAGE:

xConfiguration Audio Input HDMI [n] Mode: Mode

where

n: Unique ID that identifies the HDMI input.

Range: 2..3 [CodecPlus Room70/Room55D]

Range: 1..3 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro]

Range: 1..1 [RoomKit RoomKitMini RoomBar RoomBarPro DeskPro Desk Board BoardPro BoardProG2]

Range: 1..2 [Room55]

Range: 2..5 [Room70G2 RoomPanorama/Room70Panorama]

Mode:

Off/On

**Off:** Disable audio on the HDMI input.

**On:** Enable audio on the HDMI input.

Default value:

On

## xConfiguration Audio Input HDMI [n] VideoAssociation MuteOnInactiveVideo

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus  
CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro  
Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Use this setting to decide if audio from a presentation source that is connected to this HDMI connector shall be shared with far end, regardless of whether video from the same source is shared with far end.

### USAGE:

xConfiguration Audio Input HDMI [n] VideoAssociation MuteOnInactiveVideo:  
MuteOnInactiveVideo

where

n: Unique ID that identifies the HDMI input.

Range: 2..3 [*CodecPlus Room70/Room55D*]

Range: 1..3 [*RoomKitEQX CodecEQ*]

Range: 1..5 [*CodecPro*]

Range: 1..2 [*Room55*]

Range: 2..5 [*Room70G2 RoomPanorama/Room70Panorama*]

Range: 1..1 [*RoomKit RoomKitMini RoomBar RoomBarPro DeskPro Desk Board BoardPro  
BoardProG2*]

MuteOnInactiveVideo:

*Off/On*

**Off:** Audio is always played back, both locally and to far end, when a presentation source is connected. That is, audio is sent to the far end even if you only share the video locally, or if you don't share any video at all.

**On:** Audio will always follow the video share of the input connector. If only sharing locally, audio is played back only locally; if video is shared with the far end, audio is also shared with the far end.

Default value:

*On* [*RoomKit RoomKitMini RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro  
Desk Board BoardPro BoardProG2*]

*HDMI 1: Off HDMI 2,3: On* [*RoomKitEQX CodecEQ*]

*HDMI 1,2: Off HDMI 3,4,5: On* [*CodecPro*]

*HDMI 2: Off HDMI 3,4,5: On* [*Room70G2 RoomPanorama/Room70Panorama*]

## xConfiguration Audio Input Microphone [n] Channel

*Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Define how to mix the input signal when generating a multichannel mix. For a single channel mix this setting has no effect.

For other products that support this feature, refer to the Audio Input Microphone [n] Pan setting.

### USAGE:

xConfiguration Audio Input Microphone [n] Channel: Channel

where

n: Unique ID that identifies the microphone input.

Range: 1..8

Channel:

*Left/Mono/Right*

**Left:** Mixed to the left channel when generating a stereo mix.

**Mono:** Mixed to both channels when generating a stereo mix.

**Right:** Mixed to the right channel when generating a stereo mix.

Default value:

*Mono*

## xConfiguration Audio Input Microphone [n] EchoControl Mode

Applies to: [RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

The echo canceller continuously adjusts itself to the audio characteristics of the room, and compensates for any changes it detects in the audio environment. If the changes in the audio conditions are significant, the echo canceller may take a second or two to re-adjust.

### USAGE:

xConfiguration Audio Input Microphone [n] EchoControl Mode: Mode

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 1..3 [[RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [Room70/Room55D](#)]

Range: 2..3 [[RoomKit](#) [RoomBarPro](#) [Room55](#) [BoardPro](#) [BoardProG2](#)]

Range: 2..2 [[RoomBar](#)]

Mode:

*Off/On*

**Off**: Turn off the echo control. Recommended if echo cancellation is performed by external equipment.

**On**: Turn on the echo control. Recommended, in general, to prevent the far end from hearing their own audio. Once selected, echo cancellation is active at all times.

Default value:

*On*

## xConfiguration Audio Input Microphone [n] EchoControl Dereverberation

Applies to: [RoomKit](#) [RoomBar](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

The video device has built-in signal processing to reduce the effect of room reverberation. Dereverberation requires that Audio Input Microphone [n] EchoControl Mode is enabled.

### USAGE:

xConfiguration Audio Input Microphone [n] EchoControl Dereverberation: Dereverberation

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 1..3 [[RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [Room70/Room55D](#)]

Range: 2..3 [[RoomKit](#) [Room55](#)]

Range: 2..2 [[RoomBar](#)]

Dereverberation:

*Off/On*

**Off**: Turn off the dereverberation.

**On**: Turn on the dereverberation.

Default value:

*Off*

## xConfiguration Audio Input Microphone [n] EchoControl NoiseReduction

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The video device has built-in noise reduction, which reduces stationary background noise, for example noise from air-conditioning systems, cooling fans etc. In addition, a high pass filter (Humfilter) reduces very low frequency noise. Noise reduction requires that Audio Input Microphone [n] EchoControl Mode is enabled.

### USAGE:

xConfiguration Audio Input Microphone [n] EchoControl NoiseReduction:  
NoiseReduction

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..3 [RoomKitEQX CodecEQ CodecPlus Room70/Room55D]

Range: 2..3 [RoomKit RoomBarPro Room55 BoardPro BoardProG2]

Range: 2..2 [RoomBar]

NoiseReduction:

*Off/On*

*Off*: Turn off the noise reduction.

*On*: Turn on the noise reduction. Recommended in the presence of low frequency noise.

Default value:

*On*

## xConfiguration Audio Input Microphone [n] Equalizer ID

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Select which equalizer preset to apply to this microphone.

### USAGE:

xConfiguration Audio Input Microphone [n] Equalizer ID: ID

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..3 [RoomKitEQX CodecEQ]

ID:

*Integer (1..8)*

The equalizer preset number.

Default value:

*1*

## xConfiguration Audio Input Microphone [n] Equalizer Mode

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Enable or disable the equalizer processing for this microphone input.

### USAGE:

xConfiguration Audio Input Microphone [n] Equalizer Mode: Mode

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..3 [RoomKitEQX CodecEQ]

Mode:

*Off/On*

*Off*: Do not apply equalization processing.

*On*: Apply equalization processing.

Default value:

*Off*

## xConfiguration Audio Input Microphone [n] Level

*Applies to: RoomKit RoomBar CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the Microphone input connector. The gain should be adjusted to suit the output level of the connected audio source. The gain can be tuned in steps of 1 dB.

If the gain is set too high, the audio signal will be clipped. If the gain is set too low, the audio signal-to-noise ratio will be degraded; however, this is usually preferable to clipping.

Note that unprocessed speech signals typically contain significant level variations, making it very important to allow for sufficient signal headroom.

The maximum input level with 0 dB gain depends on the product: -18 dBu (Room Bar, Room Kit, Codec Plus, Room 55, Room 70, Room 55 Dual), 24 dBu (Codec Pro, Room 70 G2).

Example: If your microphone has a maximum output level of -44 dBu, and it is connected to a Codec Pro, then you should set the gain to 24 dBu - (-44 dBu) = 68 dB.

### USAGE:

xConfiguration Audio Input Microphone [n] Level: Level

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 2..3 [RoomKit Room55 BoardPro]

Range: 2..2 [RoomBar]

Level:

Integer (0..24) [RoomKit RoomBar CodecPlus Room55 Room70/Room55D BoardPro]

Integer (0..70) [CodecPro Room70G2 RoomPanorama/Room70Panorama]

**Range:** Select the gain in decibel (dB).

Default value:

14 [RoomKit RoomBar CodecPlus Room55 Room70/Room55D BoardPro]

58 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

## xConfiguration Audio Input Microphone [n] Gain

*Applies to: RoomBarPro RoomKitEQX CodecEQ BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the Microphone input connector. The gain should be adjusted to suit the output level of the connected audio source. The gain can be tuned in steps of 1 dB.

If the gain is set too high, the audio signal will be clipped. If the gain is set too low, the audio signal-to-noise ratio will be degraded; however, this is usually preferable to clipping.

Note that unprocessed speech signals typically contain significant level variations, making it very important to allow for sufficient signal headroom.

The maximum input level with 0 dB gain is -18 dBu.

Example: If your microphone has a maximum output level of -40 dBu, then you should set the gain to -18 dBu - (-40 dBu) = 22 dB.

### USAGE:

xConfiguration Audio Input Microphone [n] Gain: Gain

where

n: Unique ID that identifies the microphone input.

Range: 1..3 [RoomKitEQX CodecEQ]

Range: 2..3 [RoomBarPro BoardProG2]

Gain:

Integer (0..24)

**Range:** Select the gain in decibel (dB).

Default value:

20 [RoomBarPro RoomKitEQX CodecEQ]

14 [BoardProG2]

## xConfiguration Audio Input Microphone [n] Mode

Applies to: [RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio on the microphone connector.

Board Pro, Board Pro G2, Desk Mini, Desk, Desk Pro, Room Bar, Room Bar Pro, Room Kit, Room 55: Microphone [1] is the device's internal microphone.

### USAGE:

xConfiguration Audio Input Microphone [n] Mode: Mode

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 1..3 [[RoomKit](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [Room55](#) [Room70/Room55D](#) [BoardPro](#) [BoardProG2](#)]

Range: 1..2 [[RoomBar](#)]

Range: 1..1 [[DeskPro](#) [DeskMini](#) [Desk](#)]

Mode:

*Off/On*

**Off**: Disable the audio input microphone connector.

**On**: Enable the audio input microphone connector.

Default value:

*On*

## xConfiguration Audio Input Microphone [n] MuteOverride

Applies to: [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

This setting is only for the analog microphone inputs on Codec Pro.

Configure the microphone input to override the main mute state of the system (that is, the mute state controlled with the ordinary mute button(s)).

This allows for the microphone input to be unmuted and used as a line input for transmitting presentation sounds, etc. during active video input.

Note that the microphone may still be muted if it is associated with an inactive video input and is set to mute on inactive video input.

As an example, if one needs to present audio from an analog source, some of the microphone inputs need to be repurposed as line inputs.

Without MuteOverride, the sound from these presentation sources will go silent if the presenter mutes the microphone(s) during playback of the presentation.

### USAGE:

xConfiguration Audio Input Microphone [n] MuteOverride: MuteOverride

where

n: Unique ID that identifies the microphone input.

Range: 1..8

MuteOverride:

*Off/On*

**Off**: Do not override the mute setting.

**On**: Override the mute setting.

Default value:

*Off*

## xConfiguration Audio Input Microphone [n] Pan

*Applies to:* RoomKitEQX CodecEQ

Requires user role: ADMIN, INTEGRATOR

Define how to mix the input signal when generating a multichannel mix. For a single channel mix this setting has no effect.

For other products that support this feature, refer to the Audio Input Microphone [n] Channel setting.

### USAGE:

xConfiguration Audio Input Microphone [n] Pan: Pan

where

n: Unique ID that identifies the microphone input.

Range: 1..3

Pan:

*Left/Mono/Right*

**Left:** Mixed to the left channel when generating a stereo mix.

**Mono:** Mixed to both channels when generating a stereo mix.

**Right:** Mixed to the right channel when generating a stereo mix.

Default value:

*Mono*

## xConfiguration Audio Input Microphone [n] PhantomPower

*Applies to:* CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Define whether or not to have phantom power (48 V +/- 1 V) on the microphone input.

### USAGE:

xConfiguration Audio Input Microphone [n] PhantomPower: PhantomPower

where

n: Unique ID that identifies the microphone input.

Range: 1..8

PhantomPower:

*Off/On*

**Off:** Disable the phantom power on the microphone input. Use this when connecting to equipment that do not need phantom power, such as external mixers.

**On:** Enable the phantom power on the microphone input. Use this when connecting directly to microphones that require phantom power, including the Cisco Table Microphone and Cisco Ceiling Microphone.

Default value:

*On*

## xConfiguration Audio Input Microphone [n] VideoAssociation MuteOnInactiveVideo

*Applies to:* RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You can associate a microphone with a video input connector, so that the microphone is automatically muted when there is no video stream or content on that video input. Use the Audio Input Microphone [n] VideoAssociation VideoInputSource setting to choose which video input connector to associate the microphone with.

### USAGE:

xConfiguration Audio Input Microphone [n] VideoAssociation

MuteOnInactiveVideo: MuteOnInactiveVideo

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]

Range: 1..3 [ RoomKitEQX CodecEQ ]

MuteOnInactiveVideo:

*Off/On*

**Off:** The microphone mute state is independent of the state of the video inputs.

**On:** The microphone will be automatically muted when there is no video stream or content on the associated video input.

Default value:

*Off*



## xConfiguration Audio Input Microphone [n] VideoAssociation VideoInputSource

Applies to: [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

Select the video input connector to associate the microphone with.

### USAGE:

```
xConfiguration Audio Input Microphone [n] VideoAssociation VideoInputSource:  
VideoInputSource
```

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 1..3 [[RoomKitEQX](#) [CodecEQ](#)]

VideoInputSource:

1/2/3/4/5/6 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

1/2/3/4 [[RoomKitEQX](#) [CodecEQ](#)]

The video input connector that the microphone is associated with.

Default value:

1

## xConfiguration Audio Input Microphone [n] Zone

Applies to: [RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

This command is mainly used for the Presenter and Audience room setup. It's mainly used from Control Hub when setting up the feature. During setup we recommend you add information whether the microphone is facing the stage (presenter) or the audience. This information allows for more accurate automatic switching between the local, remote, and hybrid presenter modes.

### USAGE:

```
xConfiguration Audio Input Microphone [n] Zone: Zone
```

where

n: Unique ID that identifies the microphone input.

Range: 1..8 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 1..3 [[RoomKit](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [Room55](#) [Room70/Room55D](#) [BoardPro](#) [BoardProG2](#)]

Range: 1..2 [[RoomBar](#)]

Zone:

Integer (1..3)

1: Use this value, when the direction of the microphone is not used.

2: Use this value when the microphone is set up to face the stage area

3: Use this value when the microphone is set up to face the audience.

Default value:

1

## xConfiguration Audio Input MicrophoneMode

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR

If the microphone mode is Focused, the microphones can be combined to focus sound sensitivity. As a result, the noise in the room is suppressed, and you can be heard better when sitting right in front of the device. The voice of people not sitting right in front of the device will be suppressed.

If the microphone mode is Wide, the device behaves like any other device. The voice of people sitting beside you will be heard, and also more noise from the room.

We recommend that you use Focused mode when you are the only speaker. Use Wide mode when several speakers are in front of the device.

### USAGE:

xConfiguration Audio Input MicrophoneMode: MicrophoneMode

where

MicrophoneMode:

*Focused/Wide*

**Focused:** Focused sound sensitivity, suppressing sound from sources that are not right in front of the device.

**Wide:** Default microphone operation with normal sound sensitivity.

Default value:

*Focused*

## xConfiguration Audio Microphones BeamMix Inputs

*Applies to: RoomBarPro BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The device's internal microphone array consists of two major parts: A near talker sector, covering up to about 1.5 m from the device; and three beams that cover up to about 4 m from the device. The device also supports external analog or digital microphones. This setting is about using the beams and external microphones (analog or digital (Ethernet)) at the same time.

In general, we recommend you not to allow the beams and external microphones at the same time, that is, we recommend keeping this setting at Auto.

If you choose to allow the beams and external microphones at the same time, be aware that you might get more reverberation.

### USAGE:

xConfiguration Audio Microphones BeamMix Inputs: Inputs

where

Inputs:

*Auto/BeamsAndExtMics*

**Auto:** When connecting an external microphone, the internal microphone array's beams are automatically disabled.

**BeamsAndExtMics:** When connecting an external microphone, both the internal microphone array's beams and the external microphones are used.

Default value:

*Auto*

## xConfiguration Audio Input USBC [n] Level

*Applies to: RoomBar DeskPro DeskMini Desk BoardPro*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB-C input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input USBC [n] Level: Level

where

n: Unique ID that identifies the USB-C input.

Range: 1..1

Level:

*Integer (-24..0)*

Select the gain in decibel (dB).

Default value:

*-5*

## xConfiguration Audio Input USBC [n] Gain

*Applies to: RoomBarPro RoomKitEQX CodecEQ BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB-C input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input USBC [n] Gain: Gain

where

n: Unique ID that identifies the USB-C input.

Range: 1..1

Gain:

*Integer (-24..0)*

Select the gain in decibel (dB).

Default value:

-5

## xConfiguration Audio Input USBC [n] Mode

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the USB-C audio mode.

### USAGE:

xConfiguration Audio Input USBC [n] Mode: Mode

where

n: Unique ID that identifies the USBC input.

Range: 1..1

Mode:

*Off/On*

**On**: Allow audio from the USB-C.

**Off**: Do not allow any audio from the USB-C.

Default value:

*On*

## xConfiguration Audio Input USBC [n] VideoAssociation MuteOnInactiveVideo

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN

Use this setting to decide if audio from a presentation source that is connected to this USB-C connector shall be shared with far end, regardless of whether video from the same source is shared with the far end.

### USAGE:

xConfiguration Audio Input USBC [n] VideoAssociation MuteOnInactiveVideo: MuteOnInactiveVideo

where

n: Unique ID that identifies the USBC input.

Range: 1..1

MuteOnInactiveVideo:

*Off/On*

**Off**: Audio is always played back, both locally and to far end, when a presentation source is connected. That is, audio is sent to the far end even if you only share the video locally, or if you don't share any video at all.

**On**: Audio will always follow the video share of the input connector. If only sharing locally, audio is played back only locally; if video is shared with the far end, audio is also shared with far end.

Default value:

*On*

## xConfiguration Audio Input USBInterface [n] EchoControl Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

The device's echo canceller continuously adjusts itself to the audio characteristics of the room and compensates for any changes it detects in the audio environment. If the changes in the audio conditions are significant, the echo canceller may take a second or two to re-adjust.

If performing echo cancellation in external equipment, directional audio should be switched off using the Audio Panning Mode setting.

### USAGE:

xConfiguration Audio Input USBInterface [n] EchoControl Mode: Mode

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Mode:

*Off/On*

**Off:** Turn off echo cancellation in the device. Recommended if echo cancellation is performed by external equipment.

**On:** Turn on echo cancellation in the device. Recommended, in general, to prevent the far end from hearing their own audio. Once selected, echo cancellation is always active.

Default value:

*On*

## xConfiguration Audio Input USBInterface [n] Level

*Applies to: CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB connector to fit the output level of the specific USB device that is connected. The output levels of USB devices may vary.

The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input USBInterface [n] Level: Level

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Level:

*Integer (0..24)*

Set the gain in decibel (dB).

Default value:

*5*

## xConfiguration Audio Input USBInterface [n] Gain

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB connector to fit the output level of the specific USB device that is connected. The output levels of USB devices may vary.

The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Input USBInterface [n] Gain: Gain

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Gain:

*Integer (0..24)*

Set the gain in decibel (dB).

Default value:

*5*

### xConfiguration Audio Input USBInterface [n] Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio input on the USB connector.

#### USAGE:

```
xConfiguration Audio Input USBInterface [n] Mode: Mode
```

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Mode:

*Off/On*

**Off**: Disable audio input on the USB connector.

**On**: Enable audio input on the USB connector.

Default value:

*On*

### xConfiguration Audio Input USBInterface [n] Zone

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

This command is mainly used for the Presenter and Audience room setup. It's mainly used from Control Hub when setting up the feature. During setup we recommend you add information whether the microphone is facing the stage (presenter) or the audience. This information allows for more accurate automatic switching between the local, remote, and hybrid presenter modes.

#### USAGE:

```
xConfiguration Audio Input USBInterface [n] Zone: Zone
```

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Zone:

*Integer (1..3)*

**1**: Use this value, when the direction of the microphone is not used.

**2**: Use this value when the microphone is set up to face the stage area

**3**: Use this value when the microphone is set up to face the audience.

Default value:

*1*

### xConfiguration Audio Input USBMicrophone [n] EchoControl Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini DeskBoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The device's echo canceller continuously adjusts itself to the audio characteristics of the room and compensates for any changes it detects in the audio environment. If the changes in the audio conditions are significant, the echo canceller may take a second or two to re-adjust.

The AEC reference signal is always sent from the device to the USB microphone. Whether echo cancellation is performed in the device or in external equipment doesn't matter.

If performing echo cancellation in external equipment, directional audio should be switched off using the Audio Panning Mode setting.

#### USAGE:

```
xConfiguration Audio Input USBMicrophone [n] EchoControl Mode: Mode
```

where

n: Unique ID that identifies the USB microphone.

Range: 1..1

Mode:

*Off/On*

**Off**: Turn off echo cancellation in the device. Recommended if echo cancellation is performed by external equipment.

**On**: Turn on echo cancellation in the device. Recommended, in general, to prevent the far end from hearing their own audio. Once selected, echo cancellation is always active.

Default value:

*On*

## xConfiguration Audio Input USBMicrophone [n] Gain

*Applies to: RoomBarPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB connector to fit the output level of the specific USB microphone that is connected. The output levels of USB microphones may vary.

The gain can be tuned in steps of 1 dB.

### USAGE:

```
xConfiguration Audio Input USBMicrophone [n] Gain: Gain
```

where

n: Unique ID that identifies the USB microphone.

Range: 1..1

Gain:

*Integer (0..24)*

Set the gain in decibel (dB).

Default value:

5

## xConfiguration Audio Input USBMicrophone [n] Level

*Applies to: RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk BoardPro*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the USB connector to fit the output level of the specific USB microphone that is connected. The output levels of USB microphones may vary.

The gain can be tuned in steps of 1 dB.

### USAGE:

```
xConfiguration Audio Input USBMicrophone [n] Level: Level
```

where

n: Unique ID that identifies the USB microphone.

Range: 1..1

Level:

*Integer (0..24)*

Set the gain in decibel (dB).

Default value:

5

## xConfiguration Audio Input USBMicrophone [n] Zone

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This command is mainly used for the Presenter and Audience room setup. It's mainly used from Control Hub when setting up the feature. During setup we recommend you add information whether the microphone is facing the stage (presenter) or the audience. This information allows for more accurate automatic switching between the local, remote, and hybrid presenter modes.

### USAGE:

```
xConfiguration Audio Input USBMicrophone [n] Zone: Zone
```

where

n: Unique ID that identifies the USB microphone.

Range: 1..1

Zone:

*Integer (1..3)*

**1:** Use this value, when the direction of the microphone is not used.

**2:** Use this value when the microphone is set up to face the stage area

**3:** Use this value when the microphone is set up to face the audience.

Default value:

1

## xConfiguration Audio Input WebView [n] Mode

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Set whether to allow audio playback from the embedded web browser (WebView).

### USAGE:

```
xConfiguration Audio Input WebView [n] Mode: Mode
```

where

n: Unique ID that identifies the WebView input.

Range: 1..1

Mode:

*Off/On*

**On:** Allow audio from the web browser.

**Off:** Do not allow any audio to be played from the web browser.

Default value:

On

## xConfiguration Audio Microphones AGC

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus*

Requires user role: ADMIN, INTEGRATOR

Enable or disable Automatic Gain Control (AGC) on the microphones.  
Codec EQ and Room Kit EQX with AVIntegrator option: Not applicable.

### USAGE:

xConfiguration Audio Microphones AGC: AGC

where

AGC:

*Off/On*

**Off:** Disable AGC. Use this when connecting to equipment where AGC is already applied to the microphone signal, like external mixers or DSPs.

**On:** Enable AGC.

Default value:

*On*

## xConfiguration Audio Microphones HdmiPassthrough MuteButton

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

When using the Call from laptop feature (requires that Video Output HDMI Passthrough Allowed is set to True), people can always mute their audio from the meeting app. Use this setting to configure whether to allow muting from the touch controller and external microphones as well. The meeting app must be set up to use the HDMI-to-USB converter (capturing device) as microphone instead of the laptop microphone.

Be aware that the touch controller / microphones are not synchronized with the meeting app regarding mute. Therefore, the mute indicators in the room and in the meeting app don't always reflect the true mute state.

This setting is not available for Room 55 Dual and Room 70 Dual because they don't have an HDMI output available for the converter.

### USAGE:

xConfiguration Audio Microphones HdmiPassthrough MuteButton: MuteButton

where

MuteButton:

*Active/Inactive*

**Active:** People can mute using the buttons on the touch controller or microphones.

**Inactive:** People can't mute from the touch controller or microphones. Physical buttons are disabled, and there is no mute button on the user interface.

Default value:

*Active*

## xConfiguration Audio Microphones NoiseRemoval Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Use this setting to enable or disable the noise removal function on a device, as well as to define the default behavior when the function is enabled. If enabled (Enabled or Manual), there will be buttons on the user interface that allow users to turn background noise removal on and off, and it will also be possible to turn it on and off using API commands.

### USAGE:

xConfiguration Audio Microphones NoiseRemoval Mode: Mode

where

Mode:

*Disabled/Enabled/Manual*

**Disabled:** The noise removal function is turned off and can't be turned on via the user interface or by sending API commands.

**Enabled:** You can turn noise removal on and off using buttons on the user interface or by sending API commands. Noise removal is turned on by default. For personal mode devices that are registered to the Webex cloud, the noise removal state is not affected when a call is ended, or you restart the device. If noise removal was turned on, it stays on; if it was turned off, it stays off. For other devices, the noise removal state returns to the default state (on) when a call is ended, or you restart the device.

**Manual:** You can turn noise removal on and off using buttons on the user interface or by sending API commands. Noise removal is turned off by default. For personal mode devices that are registered to the Webex cloud, the noise removal state is not affected when a call is ended, or you restart the device. If noise removal was turned on, it stays on; if it was turned off, it stays off. For other devices, the noise removal state returns to the default state (off) when a call is ended, or you restart the device.

Default value:

*Enabled*

## xConfiguration Audio Microphones Mute Enabled

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the microphone mute behavior on the device.

### USAGE:

xConfiguration Audio Microphones Mute Enabled: Enabled

where

Enabled:

*True/InCallOnly*

**True:** Muting of audio is always available. In general, the microphone mute LED will not be lit outside of call, but you can still mute using the API commands.

**InCallOnly:** Muting of audio is only available when the device is in a call. When Idle, it is not possible to mute the microphone. This is useful when an external telephone service/audio system is connected via the device and is to be available when the device is not in a call. When set to InCallOnly this will prevent the audio-system from being muted by mistake.

Default value:

*True*

## xConfiguration Audio Microphones NearTalkerSector Mode

Applies to: *RoomBarPro BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The device's internal microphone array consists of two major parts: A near talker sector, covering up to about 1.5 m from the device; and three beams that cover up to about 4 m from the device.

This setting is about activating and using the near talker sector.

### USAGE:

xConfiguration Audio Microphones NearTalkerSector Mode: Mode

where

Mode:

*Off/On*

**Off:** The near talker sector microphone is deactivated; hence audio from this microphone will not be included when making the final audio mix from the room.

**On:** The near talker sector microphone is available; which means that audio picked up from this microphone may be included when making the final audio mix from the room, provided that the following requirement is met: People are detected speaking in the near talker sector.

Default value:

*Off [RoomBarPro]*

*On [BoardPro BoardProG2]*

## xConfiguration Audio Microphones PhantomPower

Applies to: *RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2*

Requires user role: ADMIN

Define whether or not to have phantom power (11 V +/- 1 V) on the microphone inputs.

### USAGE:

xConfiguration Audio Microphones PhantomPower: PhantomPower

where

PhantomPower:

*Off/On*

**Off:** Disable the phantom power on the microphone inputs. Use this when connecting to equipment that do not need phantom power, such as external mixers.

**On:** Enable the phantom power on the microphone inputs. Use this when connecting directly to microphones that require phantom power, including the Cisco Table Microphone and Cisco Ceiling Microphone.

Default value:

*On*



## xConfiguration Audio Microphones UsbPassthrough MuteButton

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

When using the Call from laptop feature (that is, a laptop meeting app is using the device's camera, microphones, or loudspeakers), people can always mute their sound from the meeting app. Use this setting to configure whether to also allow muting from external microphones and the device itself as well. It is of course a prerequisite that people set up their meeting app to use the device's microphones instead of the laptop microphone.

Be aware that the device and microphones are not synchronized with the meeting app regarding mute. Therefore, the mute indicators in the room and in the meeting app don't always reflect the true mute state.

### USAGE:

xConfiguration Audio Microphones UsbPassthrough MuteButton: MuteButton

where

MuteButton:

*Active/Inactive*

**Active:** People can mute their audio using the buttons on the device and microphones.

**Inactive:** People can't mute from the device and microphones. Physical buttons are disabled, and there is no mute button on the user interface.

Default value:

*Active [RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2]*

*Inactive [DeskPro DeskMini Desk]*

## xConfiguration Audio Microphones VoiceActivityDetector Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The device can detect whether the picked-up audio signal is voice or just background noise or other sounds.

Whether voice is picked up or not is reported in the Audio Microphones VoiceActivityDetector Activity status. This may be useful for example if you want to make a macro that reports if voice is detected in a meeting area.

### USAGE:

xConfiguration Audio Microphones VoiceActivityDetector Mode: Mode

where

Mode:

*Off/On*

**Off:** Don't check whether the picked up audio signal is voices.

**On:** Check if the picked up audio signal is voices, and report it in the corresponding status

Default value:

*Off*

## xConfiguration Audio Output ARC [n] Delay DelayMs

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

To obtain lip-synchronization, you can configure each ARC output with an extra delay that compensates for delay in other connected devices, for example TVs and external loudspeakers. The delay that you set here is either fixed or relative to the delay measured on or reported by an external monitor, as defined in the Audio Output ARC [n] Delay Mode setting.

### USAGE:

xConfiguration Audio Output ARC [n] Delay DelayMs: DelayMs

where

n: Unique ID that identifies the audio ARC output.

Range: 1..1

DelayMs:

*Integer (0..290)*

The delay in milliseconds.

Default value:

*0*

## xConfiguration Audio Output ARC [n] Delay Mode

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

You may add extra delay to an audio ARC output with the Audio Output ARC [n] Delay DelayMs setting. The extra delay added is either a fixed number of milliseconds, or a number of milliseconds relative to the detected delay on or reported by an external monitor.

### USAGE:

xConfiguration Audio Output ARC [n] Delay Mode: Mode

where

n: Unique ID that identifies the audio ARC output.

Range: 1..1

Mode:

*Fixed/RelativeToHDMI*

**Fixed:** Any extra delay (DelayMs) added to the output, will be a fixed number of millisecond.

**RelativeToHDMI:** Any extra delay (DelayMs) added to the output, will be relative to the detected delay on or reported by an external monitor. The actual delay is detected-delay + DelayMs. The Audio Output Connectors ARC [n] DelayMs status reports the actual delay.

Default value:

*RelativeToHDMI [RoomKitEQX CodecEQ CodecPro ]*

*Fixed [Room70G2 RoomPanorama/Room70Panorama ]*

## xConfiguration Audio Output ARC [n] Mode

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Choose whether or not to enable the audio return channel (ARC) on the HDMI [n] input connector. The ARC output must be enabled if you want audio playback through the Quad Camera.

On Room 70 G2, the Quad Camera is a part of the integrated loudspeaker system. We recommend to leave the ARC output enabled. If you want to disable the complete integrated loudspeaker system, use the Audio Output InternalSpeaker Mode setting.

### USAGE:

xConfiguration Audio Output ARC [n] Mode: Mode

where

n: Unique ID that identifies the audio ARC output.

Range: 1..1

Mode:

*Off/On*

**Off:** Disable the ARC output on the HDMI input.

**On:** Enable the ARC output on the HDMI input.

Default value:

*On*

## xConfiguration Audio Output ConnectorSetup

*Applies to:* [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

You can choose whether to set up the audio inputs and outputs manually, or to let the video device do it automatically based on the type of camera you have and which screens are connected.

In Auto mode, you cannot add, update, delete or connect audio inputs and outputs manually. Therefore the following API commands do not have any effect: xCommand Audio Setup \*, xCommand Audio LocalInput \*, and xCommand Audio LocalOutput \*.

When going from Manual to Auto mode: The existing Audio setup is cleared (xCommand Audio Setup Clear), and the input and output groups are set up according to product defaults. The Audio Output HDMI [n] Mode and Audio Output ARC [1] Mode settings are set to their default value. For Codec Pro automatic delay measurement is enabled.

When going from Auto to Manual mode: The HDMI and ARC output connectors are connected to the main output group. The Audio Output HDMI [n] Mode and Audio Output ARC [1] Mode settings are not changed. If microphone passthrough is enabled for Codec Pro or Room 70 G2, it will be disconnected. For Codec Pro delay measurement is stopped.

### USAGE:

xConfiguration Audio Output ConnectorSetup: [ConnectorSetup](#)  
where

[ConnectorSetup](#):

*Auto/Manual*

**Auto:** For Codec Pro, the video device will play audio either through the camera, or through a screen that is connected to one of the HDMI outputs. The video device chooses to play the audio on the first available device in the following list:

1. A Quad Camera that has camera control connected to one of the camera control connectors of the video device, and HDMI connected to the camera input of the video device (HDMI 1 input). Additionally, the Audio Output ARC [1] Mode and Video Input Connector [1] CEC Mode settings must be On. The audio return channel (ARC) on the HDMI 1 input is used to play audio through the camera.
2. A screen that is connected to the HDMI 1 output, provided that the Audio Output HDMI [1] Mode setting is On.
3. A screen that is connected to the HDMI 2 output, provided that the Audio Output HDMI [2] Mode setting is On.
4. A screen that is connected to the HDMI 3 output, provided that the Audio Output HDMI [3] Mode setting is On.

When audio is played out through the Quad Camera, the video device will measure the delay between a screen and the camera, so that it can synchronize the audio on the camera with the video on screen (lip-synchronization). In order to measure the delay, the video device sends a signal to the screen, and the screen sends the signal back to the video device using the audio return channel. The first screen in the list above that supports CEC (Consumer Electronics Control), and has the Video Output Connector [n] CEC Mode set to On, is used for the delay measurements.

When audio is played out through a screen, additional lip-synchronization delay is the

responsibility of the screen. The video device will not add any delay.

For Room 70 G2, the video device will play audio through its integrated loudspeaker system, provided that Audio Output ARC [1] Mode and Audio Output InternalSpeaker Mode is On, and Audio Output HDMI [n] Mode is On for the integrated screen(s). Automatic delay measurement is not necessary, because the relationship between the integrated loudspeaker system and screen(s) is known.

**Manual:** You must set up the audio inputs and outputs manually using the Audio Console application or the API (xCommand Audio LocalInput \*, and xCommand Audio LocalOutput \*).

For Room 70 G2, external screen(s) may be used for audio output if the connectors are explicitly added using the Audio Console application or the API (xCommand Audio LocalOutput \*). In that case, the external screens will play a stereo down mix of the audio that is played on the built-in loudspeaker system. Ultrasound signals will not play through external screens or line outputs; only through the integrated loudspeaker system.

Default value:

*Auto*

## xConfiguration Audio Output Ethernet[n] Delay DelayMs

*Applies to:* [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

To obtain lip-synchronization, you can configure each Ethernet output with an extra delay that compensates for delay in other connected devices, for example TVs and external loudspeakers. The delay that you set here is either fixed or relative to the delay measured on or reported by an external monitor, as defined in the Audio Output Ethernet [n] Delay Mode setting.

### USAGE:

xConfiguration Audio Output Ethernet[n] Delay DelayMs: [DelayMs](#)  
where

n: Unique ID that identifies the Ethernet connection.

Range: 1..4 [[CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: Without AVIntegrator option: 1..2 With AVIntegrator option: 1..4 [[RoomKitEQX](#)]

Range: Without AVIntegrator option: 1..1 With AVIntegrator option: 1..4 [[CodecEQ](#)]

[DelayMs](#):

*Integer (0..290)*

The delay in milliseconds.

Default value:

*0*

## xConfiguration Audio Output Ethernet[n] Delay Mode

Applies to: *RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

You may add extra delay to an audio Ethernet output with the Audio Output Ethernet [n] Delay DelayMs setting. The extra delay added is either a fixed number of milliseconds, or a number of milliseconds relative to the detected delay on the HDMI output (typically introduced by the connected TV).

### USAGE:

xConfiguration Audio Output Ethernet[n] Delay Mode: Mode

where

n: Unique ID that identifies the Ethernet connection.

Range: 1..4 [*CodecPro Room70G2 RoomPanorama/Room70Panorama*]

Range: Without AVIntegrator option: 1..2 With AVIntegrator option: 1..4 [*RoomKitEQX*]

Range: Without AVIntegrator option: 1..1 With AVIntegrator option: 1..4 [*CodecEQ*]

Mode:

*Fixed/RelativeToHDMI*

**Fixed:** Any extra delay (DelayMs) added to the output, will be a fixed number of millisecond.

**RelativeToHDMI:** Any extra delay (DelayMs) added to the output, will be relative to the detected delay on the HDMI output. The actual delay is detected-delay + DelayMs. The Audio Output Connectors Ethernet [n] DelayMs status reports the actual delay.

Default value:

*RelativeToHDMI*

## xConfiguration Audio Output Ethernet [n] Mode

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Ethernet [1]: The reference signal, which is required for acoustic echo cancelling (AEC), is sent from the codec to all connected digital microphones (Cisco Table Microphone Pro / Cisco Microphone Array) on this connection. If disabled, AEC will not work.

Ethernet [2]: This connection is used by Room Kit EQX and Room Panorama for the audio output from the codec to the DNAM IV amplifier.

Other Ethernet [n]: The connection is used for audio output from the codec to third-party audio peripherals, such as loudspeakers, that support the AES67 standard.

We recommend you use the embedded Room Kit EQX and Room Panorama audio systems, which requires this setting to be On. If you switch it Off, the internal loudspeakers will not be used, and you need to connect external loudspeakers to the codec.

### USAGE:

xConfiguration Audio Output Ethernet [n] Mode: Mode

where

n: Unique ID that identifies the Ethernet connection.

Range: 1..4 [*CodecPro Room70G2 RoomPanorama/Room70Panorama*]

Range: Without AVIntegrator option: 1..2 With AVIntegrator option: 1..4 [*RoomKitEQX*]

Range: Without AVIntegrator option: 1..1 With AVIntegrator option: 1..4 [*RoomBarPro CodecEQ*]

Range: 1..1 [*BoardPro BoardProG2*]

Mode:

*Off/On*

**Off:** The Ethernet connection is disabled.

**On:** The Ethernet connection is enabled.

Default value:

*On*

## xConfiguration Audio Output HDMI [n] Delay DelayMs

*Applies to: RoomKitEQX CodecEQ CodecPro*

Requires user role: ADMIN, INTEGRATOR

To obtain lip-synchronization, you can configure each HDMI output with an extra delay that compensates for delay in other connected devices, for example TVs and external loudspeakers. The delay that you set here is either fixed or relative to the delay measured on or reported by an external monitor, as defined in the Audio Output HDMI [n] Delay Mode setting.

### USAGE:

xConfiguration Audio Output HDMI [n] Delay DelayMs: DelayMs

where

n: Unique ID that identifies the audio line output.

Range: 1..3

DelayMs:

*Integer (0..290)*

The delay in milliseconds.

Default value:

0

## xConfiguration Audio Output HDMI [n] Delay Mode

*Applies to: RoomKitEQX CodecEQ CodecPro*

Requires user role: ADMIN, INTEGRATOR

You may add extra delay to an audio HDMI output with the Audio Output HDMI [n] Delay DelayMs setting. The extra delay added is either a fixed number of milliseconds, or a number of milliseconds relative to the detected delay on the HDMI output (typically introduced by the connected TV).

### USAGE:

xConfiguration Audio Output HDMI [n] Delay Mode: Mode

where

n: Unique ID that identifies the audio line output.

Range: 1..3

Mode:

*Fixed/RelativeToHDMI*

**Fixed:** Any extra delay (DelayMs) added to the output, will be a fixed number of milliseconds.

**RelativeToHDMI:** Any extra delay (DelayMs) added to the output, will be relative to the detected delay on the HDMI output. The actual delay is detected-delay + DelayMs. The Audio Output Connectors HDMI [n] DelayMs status reports the actual delay.

Default value:

*Fixed*

## xConfiguration Audio Output HDMI [n] Level

*Applies to: Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the HDMI input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Output HDMI [n] Level: Level

where

n: Unique ID that identifies the HDMI output.

Range: 1..3 [*Room70G2*]

Range: For Room Panorama: 3..3; For Room 70 Panorama: 1..3 [*RoomPanorama/Room70Panorama*]

Level:

*Integer (-24..0)*

**Range:** Select the gain in decibel (dB).

Default value:

0

## xConfiguration Audio Output HDMI [n] Gain

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the HDMI input connector. The gain can be tuned in steps of 1 dB.

### USAGE:

xConfiguration Audio Output HDMI [n] Gain: Gain

where

n: Unique ID that identifies the HDMI output.

Range: 1..3

Gain:

Integer (-24..0)

**Range:** Select the gain in decibel (dB).

Default value:

0

## xConfiguration Audio Output HDMI [n] Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Define if the audio channel on this HDMI output connector shall be enabled.

### USAGE:

xConfiguration Audio Output HDMI [n] Mode: Mode

where

n: Unique ID that identifies the HDMI output.

Range: 1..1 [CodecPlus]

Range: 1..3 [RoomKitEQX CodecEQ CodecPro Room70G2]

Range: For Room Panorama: 3..3; For Room 70 Panorama: 1..3 [RoomPanorama/Room70Panorama]

Mode:

Off/On

**Off:** The connector will not be used for audio out.

**On:** The connector can be used for audio out. For Codec Pro and Room 70 G2 it depends on the Audio Output ConnectorSetup setting, and for Codec EQ and Room Kit EQX it depends on the Audio ConnectorSetup setting.

Default value:

Room 70 Dual G2: HDMI 1,2: On HDMI 3: Off

Room 70 Single G2: HDMI 1: On HDMI 2,3: Off [Room70G2]

Room 70 Panorama: HDMI 1,2: On HDMI 3: Off

Room Panorama: Off [RoomPanorama/Room70Panorama]

On [CodecEQ CodecPlus CodecPro]

Off [RoomKitEQX]

## xConfiguration Audio Output InternalSpeaker Mode

*Applies to:* RoomKit RoomBarPro RoomKitEQX CodecPlus Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Define whether or not to use the device's integrated speakers.

Codec Plus must be connected to a Quad Camera for this setting to apply.

For Room Kit EQX, Room 70 G2, Room 70 Panorama, and Room Panorama, the Audio Output HDMI [n] Mode settings for the integrated screens(s) must be set to On in order to play any audio on the integrated speakers. Also, the Audio Output ARC 1 Mode setting must be On.

For all products except Codec Plus, you can limit the use of the integrated speakers to play only ultrasound.

### USAGE:

xConfiguration Audio Output InternalSpeaker Mode: Mode

where

Mode:

*Off/On/UltrasoundOnly* [RoomKit RoomBarPro RoomKitEQX Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]

*Off/On* [CodecPlus ]

**Off:** Disable the device's integrated speakers.

**On:** Enable the device's integrated speakers.

**UltrasoundOnly:** Enable the device's integrated speakers only for ultrasound.

Default value:

*On*

## xConfiguration Audio Output Line [n] Channel

*Applies to:* CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Define whether the Audio Line output is a mono signal or part of a multichannel signal.

### USAGE:

xConfiguration Audio Output Line [n] Channel: Channel

where

n: Unique ID that identifies the audio line output.

Range: 1..6

Channel:

*Left/Mono/Right*

**Left:** The Audio Line output signal is the left channel of a stereo signal.

**Mono:** The Audio Line output signal is a mono signal.

**Right:** The Audio Line output signal is the right channel of a stereo signal.

Default value:

*Line 1,3,5: Left Line 2,4,6: Right* [CodecPro Room70G2 ]

*Room Panorama: Line 1,3,5: Left Line 2,4,6: Right*

*Room 70 Panorama: Line 1,2: Mono Line 3,5: Left Line 4,6: Right* [RoomPanorama/Room70Panorama ]

## xConfiguration Audio Output Line [n] Delay DelayMs

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

To obtain lip-synchronization, you can configure each audio line output with an extra delay that compensates for delay in other connected devices, for example TVs and external loudspeakers. The delay that you set here is either fixed or relative to the delay on the HDMI output, as defined in the Audio Output Line [n] Delay Mode setting.

### USAGE:

xConfiguration Audio Output Line [n] Delay DelayMs: DelayMs

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..1 [RoomKitEQX CodecEQ]

DelayMs:

*Integer (0..290)*

The delay in milliseconds.

Default value:

0

## xConfiguration Audio Output Line [n] Delay Mode

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

You may add extra delay to an audio line output with the Audio Output Line [n] Delay DelayMs setting. The extra delay added is either a fixed number of milliseconds, or a number of milliseconds relative to the detected delay on the HDMI output (typically introduced by the connected TV).

### USAGE:

xConfiguration Audio Output Line [n] Delay Mode: Mode

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..1 [RoomKitEQX CodecEQ]

Mode:

*Fixed/RelativeToHDMI*

**Fixed:** Any extra delay (DelayMs) added to the output, will be a fixed number of millisecond.

**RelativeToHDMI:** Any extra delay (DelayMs) added to the output, will be relative to the detected delay on the HDMI output. The actual delay is HDMI-delay + DelayMs. The Audio Output Connectors Line [n] DelayMs status reports the actual delay.

Default value:

*Fixed [Room70G2 RoomPanorama/Room70Panorama]*

*RelativeToHDMI [RoomKitEQX CodecEQ CodecPro]*



## xConfiguration Audio Output Line [n] Equalizer ID

*Applies to:* RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Select which equalizer preset to apply to this output.  
Codec EQ, Room Kit EQX: AVIntegrator option required.

### USAGE:

xConfiguration Audio Output Line [n] Equalizer ID: ID

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..1 [RoomKitEQX CodecEQ]

ID:

Integer (1..8)

The equalizer preset number.

Default value:

1

## xConfiguration Audio Output Line [n] Equalizer Mode

*Applies to:* RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Enable or disable the equalizer processing for this output.  
Codec EQ, Room Kit EQX: AVIntegrator option required.

### USAGE:

xConfiguration Audio Output Line [n] Equalizer Mode: Mode

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..1 [RoomKitEQX CodecEQ]

Mode:

Off/On

**Off**: Do not apply equalization processing.

**On**: Apply equalization processing.

Default value:

Off

## xConfiguration Audio Output Line [n] Level

*Applies to:* CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Set the gain on the Line output connector. The gain should be adjusted to fit the audio input level of the connected device. The gain can be tuned in steps of 1 dB.

The maximum output level with 0 dB gain differs depending on the product: 8 dBu (Room 70, Room 55 Dual), 18 dBu (Codec Pro, Room 70 G2).

Example: If the audio device that is connected to a Codec Pro has max input level 10 dBu, then you should set the gain to 10 dBu - 18 dBu = -8 dB.

### USAGE:

xConfiguration Audio Output Line [n] Level: Level

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 1..1 [Room70/Room55D]

Level:

Integer (-24..0)

**Range**: Select the gain in decibel (dB).

Default value:

-4 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

0 [Room70/Room55D]

## xConfiguration Audio Output Line [n] Gain

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR

Set the gain on the Line output connector. The gain should be adjusted to fit the audio input level of the connected device. The gain can be tuned in steps of 1 dB.

The maximum output level with 0 dB gain is 8 dBu.

Example: If the connected audio device has max input level 4 dBu, then you should set the gain to 4 dBu - 8 dBu = -4 dB.

### USAGE:

```
xConfiguration Audio Output Line [n] Gain: Gain
```

where

n: Unique ID that identifies the audio line output.

Range: 1..1

Gain:

Integer (-24..0)

**Range:** Select the gain in decibel (dB).

Default value:

0

## xConfiguration Audio Output Line [n] Mode

*Applies to: RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the mode for the audio line output.

### USAGE:

```
xConfiguration Audio Output Line [n] Mode: Mode
```

where

n: Unique ID that identifies the audio line output.

Range: 1..6 [*CodecPro Room70G2 RoomPanorama/Room70Panorama*]

Range: 1..1 [*RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2*]

Mode:

*Off/On*

**Off:** Disable the audio line output.

**On:** Enable the audio line output.

Default value:

*On*

## xConfiguration Audio Output Line [n] OutputType

*Applies to: RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The output type should be set to match the connected device.

Codec EQ and Room Kit EQX with AVIntegrator option: Not applicable.

### USAGE:

```
xConfiguration Audio Output Line [n] OutputType: OutputType
```

where

n: Unique ID that identifies the audio line output.

Range: 1..1

OutputType:

*LineOut/Loudspeaker/Microphone/Recorder/Subwoofer [RoomKit]*

*LineOut/Loudspeaker/Microphone/Recorder [RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2]*

**Loudspeaker:** Use Loudspeaker if a loudspeaker is connected to the line output. In this mode, the output level on that connector follows the master volume control and the output signal includes all system sounds (ringtones, Webex assistant, etc.).

**Microphone:** In this mode, the sound picked up by the connected microphones will be sent to the line output. System sounds and sounds from far-end sources are not included.

**Recorder:** Use Recorder if a recorder is connected to the line output. In this mode, the output level is fixed and system sounds are not included. The sound from local presentation sources, the local microphones, and any far end sources are included.

**Subwoofer:** Use Subwoofer if a subwoofer is connected to the line output. In this mode, the bass is sent to line output and the rest of the audio range is played on the internal speaker.

**LineOut:** Use LineOut for other devices. In this mode, the output level is fixed and system sounds are not included. The sound from local presentation sources and far end sources are included.

Default value:

*Loudspeaker [RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 BoardPro BoardProG2]*

*LineOut [Room70/Room55D]*

## xConfiguration Audio Output USBC [n] Mode

*Applies to:* RoomKitEQX CodecEQ

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio output from the USB-C connector.

### USAGE:

xConfiguration Audio Output USBC [n] Mode: Mode

where

n: Unique ID that identifies the USB-C connector.

Range: 1..1

Mode:

Off/On

**Off:** Disable audio output from the USB-C connector.

**On:** Enable audio output from the USB-C connector.

Default value:

On

## xConfiguration Audio Output USBInterface [n] Mode

*Applies to:* RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Disable or enable audio output from the USB connector.

### USAGE:

xConfiguration Audio Output USBInterface [n] Mode: Mode

where

n: Unique ID that identifies the USB interface.

Range: 1..1

Mode:

Off/On

**Off:** Disable audio output from the USB connector.

**On:** Enable audio output from the USB connector.

Default value:

On

## xConfiguration Audio Panning Mode

*Applies to:* RoomBar RoomBarPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN

In scenarios where the device knows where in the video stream layout the person speaking is located, the device can playback audio on the loudspeakers closest to that location. You will also get a similar effect when using a headset. This is referred to as directional audio. For example, if the person speaking is placed to the left in the layout, audio will come from the left loudspeaker.

Headsets are further addressed in the Audio Panning HeadsetAnalog (only Desk Pro) and Audio Panning HeadsetUSB (only Board Pro, Board Pro G2, and Desk Series devices) settings.

This setting is not available for the first generation of Board (non S-series).

### USAGE:

xConfiguration Audio Panning Mode: Mode

where

Mode:

Auto/Off

**Auto:** Use directional audio when it is available.

**Off:** Disable directional audio for loudspeakers and headsets.

Default value:

Auto

## xConfiguration Audio Panning HeadsetAnalog BinauralProcessing

*Applies to:* DeskPro

Requires user role: ADMIN

Disable or enable binaural processing of audio for an analog headset. This is the audio processing technique that achieves natural sounding directional audio.

### USAGE:

xConfiguration Audio Panning HeadsetAnalog BinauralProcessing:

BinauralProcessing

where

BinauralProcessing:

False/True

**False:** Do not perform binaural processing, but normal panning, with simple volume difference on left and right ear.

**True:** Perform binaural processing on the audio.

Default value:

True

## xConfiguration Audio Panning HeadsetAnalog Mode

*Applies to: DeskPro*

Requires user role: ADMIN

Disable or enable audio panning to provide directional audio for an analog headset.

If directional audio is turned off overall with the Audio Panning Mode setting, you will never get directional audio for the headset even if Audio Panning HeadsetAnalog Mode is set to Auto.

### USAGE:

```
xConfiguration Audio Panning HeadsetAnalog Mode: Mode
```

where

Mode:

*Auto/Off*

**Auto:** Use directional audio when it is available.

**Off:** Disable directional audio for analog headsets.

Default value:

*Auto*

## xConfiguration Audio Panning HeadsetUSB BinauralProcessing

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN

Disable or enable binaural processing of audio for a USB headset. This is the audio processing technique that achieves natural sounding directional audio.

### USAGE:

```
xConfiguration Audio Panning HeadsetUSB BinauralProcessing:
```

BinauralProcessing

where

BinauralProcessing:

*False/True*

**False:** Do not perform binaural processing, but normal panning, with simple volume difference on left and right ear.

**True:** Perform binaural processing on the audio.

Default value:

*False*

## xConfiguration Audio Panning HeadsetUSB Mode

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN

Disable or enable audio panning to provide directional audio for a USB headset.

If directional audio is turned off overall with the Audio Panning Mode setting, you will never get directional audio for the headset even if Audio Panning HeadsetUSB Mode is set to Auto.

### USAGE:

```
xConfiguration Audio Panning HeadsetUSB Mode: Mode
```

where

Mode:

*Auto/Off*

**Auto:** Use directional audio when it is available.

**Off:** Disable directional audio for USB headsets.

Default value:

*Auto*

## xConfiguration Audio Placement

*Applies to: RoomBarPro BoardPro BoardProG2*

Requires user role: ADMIN

Define the mounting configuration of the device. Based on this setting, the loudspeaker system is configured to optimize sound quality.

### USAGE:

```
xConfiguration Audio Placement: Placement
```

where

Placement:

*Freestanding/Wallmount*

**Freestanding:** The device is mounted with free space behind it. For Board Pro and Board Pro G2, this means that the device is mounted using its floor stand or wheelbase kits.

**Wallmount:** The device is mounted close to a wall. For Board Pro and Board Pro G2, this means that the device is mounted using its wall mount kit.

Default value:

*Freestanding*

## xConfiguration Audio SoundsAndAlerts RingTone

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define which ringtone to use for incoming calls.

### USAGE:

xConfiguration Audio SoundsAndAlerts RingTone: RingTone

where

RingTone:

*Sunrise/Mischief/Ripples/Reflections/Vibes/Delight/Evolve/Playful/Ascent/Calculation/Mellow/Ringer*

Select a ringtone from the list.

Default value:

*Sunrise BoardPro BoardProG2*

## xConfiguration Audio SoundsAndAlerts RingVolume

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define the ring volume for incoming calls.

### USAGE:

xConfiguration Audio SoundsAndAlerts RingVolume: RingVolume

where

RingVolume:

*Integer (0..100)*

**Range:** The value goes in steps of 5 from 0 to 100 (from -34.5 dB to 15 dB). Volume 0 = Off.

Default value:

*50*

## xConfiguration Audio Ultrasound MaxVolume

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting applies to the Proximity feature. Set the maximum volume of the ultrasound pairing messages.

The Audio Ultrasound MaxVolume and Proximity Mode settings only affect ultrasound pairing messages. See the RoomAnalytics PeoplePresenceDetector and Standby WakeupOnMotionDetection settings for information about the use of ultrasound in presence and motion detection.

### USAGE:

xConfiguration Audio Ultrasound MaxVolume: MaxVolume

where

MaxVolume:

*Integer (0..90) [CodecPlus CodecPro]*

*Integer (0..70) [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Select a value in the specified range. If set to 0, ultrasound pairing messages are not emitted.

Default value:

*70*

## xConfiguration Audio USB Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Enable or disable the audio channels on the USB connector.

### USAGE:

xConfiguration Audio USB Mode: Mode

where

Mode:

*AdditionalSpeaker/Microphone/Off/Speaker/SpeakerAndMicrophone [ RoomKit RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*AdditionalMicrophone/AdditionalSpeaker/Microphone/Off/Speaker/SpeakerAndMicrophone [ RoomKitMini RoomBar ]*

**AdditionalMicrophone:** Both the video device's built-in microphone and an external audio input device (USB microphone) will be used. The USB audio output channel is disabled.

**AdditionalSpeaker:** Both the video device's built-in loudspeakers and the USB audio output device will be used. The USB audio input channel is disabled.

A loudspeaker that is connected to USB may have higher latency than the internal loudspeaker of the device. This can cause strange audio artefacts if you use both loudspeakers simultaneously.

A typical use case for AdditionalSpeaker is to support hearing aids/assisted listening devices (ALD) on video devices without an analog audio output. The difference in latency is less likely to cause issues in such set-ups.

**Microphone:** Only the external USB microphone will be used; other microphones are disabled. The USB audio output channel is also disabled.

**Off:** No audio will flow over USB but signaling is still enabled. This allows for using a USB device as a mute or volume controller.

**Speaker:** The USB audio output channel will be connected (speaker). Other speakers are disabled. The USB audio input channel is also disabled.

**SpeakerAndMicrophone:** Both the input (microphone) and output (speaker) channels of a USB audio device will be connected. Other microphones and speakers are disabled.

Default value:

*SpeakerAndMicrophone*

## xConfiguration Audio USB VolumeControl Capture Mode

*Applies to: All products*

Requires user role: ADMIN, USER

This setting applies when a USB capture device (e.g. a USB microphone) is connected to the video device.

If the USB device has an internal trim setting, you can request the USB device to trim the audio signal level before sending it to the video device. Use the Audio USB VolumeControl Capture Value setting to set how much gain/attenuation to apply.

### USAGE:

xConfiguration Audio USB VolumeControl Capture Mode: Mode

where

Mode:

*Active/Bypass*

**Active:** Allow the video device to request the USB device to trim its output level before sending the audio signal.

**Bypass:** Don't adjust the volume output from the USB device before sending it to the video device.

Default value:

*Bypass*

## xConfiguration Audio USB VolumeControl Capture Value

*Applies to: All products*

Requires user role: ADMIN, USER

This setting applies if the Audio USB VolumeControl Capture Mode is set to Active.

This is the gain that the video device requests the USB capture device to apply before sending the audio signal to the video device.

The actual range that the USB device offers can be found in the Audio USB VolumeControl Capture Max and Audio USB VolumeControl Capture Min statuses. If the requested volume value is outside this range, the closest allowed value will be used. The Audio USB VolumeControl Capture Value status always returns the actual gain applied.

Note that the USB device may apply a gain as default. Since the Audio USB VolumeControl Capture Value status always returns the actual gain applied, you may want to check this status before you decide on which gain to request. Example: If you want to request a 6 dB increase to the current level, and the default gain already applied by the USB device is 42 dB, you must set the Audio USB VolumeControl Capture Value setting to 48, that is 42+6 dB.

### USAGE:

```
xConfiguration Audio USB VolumeControl Capture Value: Value
```

where

Value:

*Integer (-100..100)*

The gain to request in dB.

Default value:

0

## xConfiguration Audio USB VolumeControl Playback Mode

*Applies to: All products*

Requires user role: ADMIN, USER

This setting applies when a USB playback device (e.g. a USB loudspeaker) is connected to the video device.

If the USB device has an internal trim setting, you can request the USB device to trim the audio signal level it receives from the video device before any further processing. Use the Audio USB VolumeControl Playback Value setting to set how much gain/attenuation to apply.

### USAGE:

```
xConfiguration Audio USB VolumeControl Playback Mode: Mode
```

where

Mode:

*Active/Bypass*

**Active:** Allow the video device to request the USB device to trim the input level before further processing.

**Bypass:** Don't adjust the volume input to the USB device before further processing.

Default value:

*Bypass*

## xConfiguration Audio USB VolumeControl Playback Value

*Applies to: All products*

Requires user role: ADMIN, USER

This setting applies if the Audio USB VolumeControl Playback Mode is set to Active.

This is the gain that the video device requests the USB capture device to apply after receiving the audio signal from the video device.

The actual range that the USB device offers can be found in the Audio USB VolumeControl Playback Max and Audio USB VolumeControl Playback Min statuses. If the requested volume value is outside this range, the closest allowed value will be used. The Audio USB VolumeControl Playback Value status always returns the actual gain applied.

Note that the USB device may apply a gain as default. Since the Audio USB VolumeControl Playback Value status always returns the actual gain applied, you may want to check this status before you decide on which gain to request. Example: If you want to request a 6 dB increase to the current level, and the default gain already applied by the USB device is 42 dB, you must set the Audio USB VolumeControl Playback Value setting to 48, that is 42+6 dB.

### USAGE:

xConfiguration Audio USB VolumeControl Playback Value: Value

where

Value:

*Integer (-100..100)*

The gain to request in dB.

Default value:

*0*

## Bluetooth configuration

### xConfiguration Bluetooth Allowed

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN

The device has a built-in Bluetooth® module. As a default, the user can turn it on or off using the user interface. With this setting, the administrator can disable Bluetooth configuration, so that it cannot be set up from the user interface.

### USAGE:

xConfiguration Bluetooth Allowed: Allowed

where

Allowed:

*False/True*

**False:** Bluetooth is switched off by the administrator, and the user cannot turn it on from the user interface.

**True:** Bluetooth is allowed. The user can turn it on or off from the user interface.

Default value:

*True*

### xConfiguration Bluetooth Enabled

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN

Provided that Bluetooth® connections are allowed (see the Bluetooth Allowed setting), you can use this setting to enable and disable Bluetooth. The video device supports the HFP (Hands-Free Profile) and A2DP (Advanced Audio Distribution Profile) profiles. Headsets that only supports A2DP cannot be used.

### USAGE:

xConfiguration Bluetooth Enabled: Enabled

where

Enabled:

*False/True*

**False:** Bluetooth is disabled, and no Bluetooth devices can pair with the video device.

**True:** Bluetooth is enabled, and you can pair and use a Bluetooth headset.

Default value:

*False*



# Bookings configuration

## xConfiguration Bookings AdhocBooking BookingTimeout

*Applies to: All products*

Requires user role: ADMIN

For ad hoc bookings, we need to wait a certain time to make sure it has been confirmed from the backend. This setting is useful for hybrid calendar situations where it might take a long time to get such confirmation of the booking. The booking shows up when you book ad hoc, but it might get removed if the backend (exchange, google calendar, etc.) does not confirm it in time. This setting determines how long we wait before removing it.

### USAGE:

xConfiguration Bookings AdhocBooking BookingTimeout: BookingTimeout

where

BookingTimeout:

*Integer (60..300)*

The number of seconds to wait before removing an ad hoc booking, if not confirmed from the backend.

Default value:

*60*

## xConfiguration Bookings AdhocBooking Enabled

*Applies to: All products*

Requires user role: ADMIN

The ad hoc booking feature allows you to book a room directly from the navigator that is in or by the meeting room. You can also extend an ongoing meeting if the room is still available. You can also use the Webex Assistant (voice-driven virtual assistant) to book or extend a meeting.

Ad-hoc booking is provided by the on-device calendar or the selected calendar provider in Control Hub.

### USAGE:

xConfiguration Bookings AdhocBooking Enabled: Enabled

where

Enabled:

*False/True*

**False:** The ad hoc booking feature is not available.

**True:** The ad hoc booking feature is available

Default value:

*False*

## xConfiguration Bookings AllowDecline

*Applies to: All products*

Requires user role: ADMIN

Configure if you can decline a meeting and where you can decline it from; either using the dropdown in calendar list to remove it, or from the checkout button. Example: From controller inside the room, or from the scheduler on the wall outside the room, or no ability.

### USAGE:

xConfiguration Bookings AllowDecline: AllowDecline

where

AllowDecline:

*All/InsideOnly/None*

**All:** You can decline a meeting from navigators both inside and outside the room.

**InsideOnly:** You can decline a meeting from navigators inside the room.

**None:** You cannot decline a meeting from a navigator (neither controllers nor schedulers).

Default value:

*All*

## xConfiguration Bookings CheckIn Enabled

*Applies to: All products*

Requires user role: ADMIN

In a significant percentage of meetings no one shows up and the meeting resources are wasted during the booking. Enabling the check in option helps alleviate this problem. The users can check in to their booking when they arrive to the meeting room which confirms the booking. If no one arrives for the booking, the meeting room can be released, and others can book the free meeting room.

The check in option is available on shared bookable devices and standalone Room Navigator.

### USAGE:

xConfiguration Bookings CheckIn Enabled: Enabled

where

Enabled:

*False/True*

**False:** The check in option is not available.

**True:** The check in option is available.

Default value:

*False*

## xConfiguration Bookings CheckIn WindowDuration

*Applies to: All products*

Requires user role: ADMIN

This setting is relevant only if the check in option is enabled (see the Bookings Checkin Enabled setting).

A check in button appears on the touch panels some minutes before a booking starts. Use this setting to define for how long after the booking start the user can check in. If no one checks in during this period, manually or automatically, the room is automatically released, and the organizer gets an email informing about the cancellation.

The room device will automatically check in for: ad hoc bookings, when joining a call, when a sharing session has started (wired or wireless), or people count is 1 or more.

### USAGE:

xConfiguration Bookings CheckIn WindowDuration: WindowDuration

where

WindowDuration:

*5/10/15/20/30/60*

The time the check in option is available (in minutes) before the room booking is released

Default value:

*10*

## xConfiguration Bookings ProtocolPriority

*Applies to: All products*

Requires user role: ADMIN

Video devices can join Microsoft Teams meetings either using SIP via a Cloud Video Interop (CVI) gateway, which is a service that is provided in the Webex cloud, or by running the Microsoft Teams meeting web app (WebRTC).

Joining Microsoft Teams meetings relies on a calendar service and is available for devices that are registered to an on-premises service and linked to Webex Edge for Devices, and for devices that are registered to the Webex cloud service.

### USAGE:

xConfiguration Bookings ProtocolPriority: ProtocolPriority

where

ProtocolPriority:

*Auto/WebRTC*

**Auto:** The device will join the Microsoft Teams meeting via SIP/CVI if there is a CVI address in the meeting invite. Otherwise it will use WebRTC.

**WebRTC:** The device will always use WebRTC for Microsoft Teams meetings.

Default value:

*Auto*

## BYOD configuration

### xConfiguration BYOD HidForwarding Enabled

*Applies to: DeskPro*

Requires user role: ADMIN, INTEGRATOR

If you use an external mouse or keyboard for your laptop (wired USB or USB dongle), you can connect them to the video device's USB port instead of directly to the laptop.

### USAGE:

xConfiguration BYOD HidForwarding Enabled: Enabled

where

Enabled:

*False/True*

**False:** You must connect the external mouse or keyboard directly to your laptop.

**True:** You can connect the external mouse or keyboard for your laptop to the video device.

Default value:

*False*

### xConfiguration BYOD QRCodePairing

*Applies to: DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

Controls if users can use a QR code to pair their mobile phone and the video device through the Webex app. When enabled, the user just scans the QR code that is displayed on the device's screen and waits for the pairing process to complete.

This setting applies only to devices that are set up for Hot desking, which implies that they must be in shared mode and registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

xConfiguration BYOD QRCodePairing: QRCodePairing

where

QRCodePairing:

*Disabled/Enabled*

**Enabled:** There is a QR code on the device's screen, and users can scan it to sign in on the device.

**Disabled:** There is no QR code on the device. Users must sign in another way (USB-C).

Default value:

*Enabled*

## xConfiguration BYOD TouchForwarding Enabled

*Applies to: DeskPro Board*

Requires user role: ADMIN, INTEGRATOR

Use this setting to enable or disable the touch redirect feature. Touch redirect enables you to control your laptop from the touch screen of the board or video device. You must connect the laptop to the device with an HDMI cable (wired sharing) and a USB-C cable. You can use either a USB-C to USB-C cable or a USB-C to USB-A cable from the device to the laptop.

This feature is not available on the first generation of boards (Board 55 and 70).

### USAGE:

xConfiguration BYOD TouchForwarding Enabled: Enabled

where

Enabled:

*False/True*

**False:** Touch redirect is disabled.

**True:** Touch redirect is enabled.

Default value:

*True*

## xConfiguration BYOD USBXapi

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN

This setting determines whether a laptop should automatically pair to the video device when it is connected with a USB-C cable.

### USAGE:

xConfiguration BYOD USBXapi: USBXapi

where

USBXapi:

*Disabled/Enabled*

**Disabled:** The devices will not automatically pair.

**Enabled:** The devices will pair once connected with a USB-C cable.

Default value:

*Enabled*

## CallHistory configuration

### xConfiguration CallHistory Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Specify whether or not information about calls that are placed or received are stored, including missed calls and calls that are not answered (call history). This determines whether or not the calls appear in the Recents list on the user interfaces.

### USAGE:

xConfiguration CallHistory Mode: Mode

where

Mode:

*Off/On*

**Off:** New entries are not added to the call history.

**On:** New entries are stored in the call history list.

Default value:

*On*

### xConfiguration CallHistory Recents DisplayName

*Applies to: All products*

Requires user role: ADMIN

You can choose to hide meeting titles from the Recents list. This list is available when tapping the Call button on the UI, and in the Call page on the device web interface. This setting is neither supported on shared mode devices where hotdesking is enabled nor on personal mode devices.

### USAGE:

xConfiguration CallHistory Recents DisplayName: DisplayName

where

DisplayName:

*Auto/Hidden*

**Auto:** Keep meeting titles in the Recents list.

**Hidden:** Don't show meeting titles in the Recents list.

Default value:

*Auto*

# Cameras configuration

## xConfiguration Cameras Background Enabled

*Applies to:* DeskPro DeskMini Desk

Requires user role: ADMIN, USER

Enable or disable the Camera Background feature.

The Camera Background feature allows for a virtual background (images or effects) to be shown as the background in the camera view, instead of the real surroundings. This configuration must be enabled to allow the Cameras Background Set command to take effect.

### USAGE:

xConfiguration Cameras Background Enabled: Enabled

where

Enabled:

*False/True*

**True:** Enable the Camera Background feature.

**False:** Disable the Camera Background feature.

Default value:

*True*

## xConfiguration Cameras Background UserImagesAllowed

*Applies to:* DeskPro DeskMini Desk

Requires user role: ADMIN

Enable or disable the ability for users to use custom images as virtual background during meetings or calls.

The Cameras Background Enabled setting must also be enabled for this feature to be accessible.

### USAGE:

xConfiguration Cameras Background UserImagesAllowed: UserImagesAllowed

where

UserImagesAllowed:

*False/True*

**True:** Enable the use of custom images as virtual backgrounds.

**False:** Disable the use of custom images as virtual backgrounds.

Default value:

*False*

## xConfiguration Cameras Camera [n] AssignedSerialNumber

*Applies to:* RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

The camera ID is the number n in Camera [n]. By default, the camera ID is assigned automatically to a camera. If EDID information is not passed on from the camera to the video device, the camera ID is not persistent after a reboot. This means that a camera may get a new camera ID when the video device is restarted.

You should use the Cameras Camera AssignedSerialNumber setting to cater for configurations where the video device does not receive EDID information from multiple cameras. This setting allows you to manually assign a camera ID to a camera by associating the camera ID with the camera's serial number. The setting is persistent until the video device is factory reset.

A typical situation where the video device doesn't receive EDID information is when using an HDMI repeater that doesn't pass on such information.

### USAGE:

xConfiguration Cameras Camera [n] AssignedSerialNumber:

"AssignedSerialNumber"

where

n: Unique ID that identifies the camera.

Range: 1..7 [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]

Range: 2..7 [BoardPro BoardProG2 ]

AssignedSerialNumber:

*String (0, 20)*

The camera's serial number.

Default value:

*""*

## xConfiguration Cameras Camera [n] Backlight DefaultMode

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Turn backlight compensation on or off. Backlight compensation is useful when there is much light behind the persons in the room. Without compensation the persons may appear very dark to the far end.

This setting is not applicable for the integrated camera of Bar Pro, Board Pro, and Board Pro G2. If the Cameras Camera Brightness Algorithm is not set to Average, neither is it applicable to the Quad camera and the integrated camera of Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, or Room Panorama. These cameras automatically adjust themselves based on the room lighting conditions.

### USAGE:

xConfiguration Cameras Camera [n] Backlight DefaultMode: DefaultMode

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 2..7 [[BoardPro](#) [BoardProG2](#)]

DefaultMode:

*Off/On*

**Off**: Turn off the camera backlight compensation.

**On**: Turn on the camera backlight compensation.

Default value:

*Off*

## xConfiguration Cameras Camera [n] Brightness Algorithm

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Specify the camera brightness algorithm.

### USAGE:

xConfiguration Cameras Camera [n] Brightness Algorithm: Algorithm

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 2..7 [[BoardPro](#) [BoardProG2](#)]

Algorithm:

*Auto/Average/FaceOptimized*

**Auto**: The camera brightness algorithm is automatically set by the device.

**Average**: The traditional brightness algorithm is applied. This uses the entire image area to calculate brightness.

**FaceOptimized**: Brightness is calculated by weighing the areas where people are detected. This includes automatic backlight compensation.

Default value:

*Auto*

### xConfiguration Cameras Camera [n] Brightness DefaultLevel

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Set the brightness level. Requires the Cameras Camera Brightness Mode to be Manual.

#### USAGE:

xConfiguration Cameras Camera [n] Brightness DefaultLevel: DefaultLevel

where

n: Unique ID that identifies the camera.

Range: 1..1 [*RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk*]

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*]

DefaultLevel:

*Integer (1..31)*

The brightness level. The higher the number, the brighter the image.

Default value:

20

### xConfiguration Cameras Camera [n] Brightness Mode

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

When the Brightness Mode is set to Auto the brightness is set and continuously adjusted by the device based on the current lighting conditions. There is no auto-adjustment in Manual mode, and the brightness level is manually set using the Cameras Camera Brightness DefaultLevel setting.

#### USAGE:

xConfiguration Cameras Camera [n] Brightness Mode: Mode

where

n: Unique ID that identifies the camera.

Range: 1..1 [*RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk*]

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*]

Mode:

*Auto/Manual*

**Auto:** The camera brightness is automatically adjusted by the device. The Cameras Camera Brightness DefaultLevel setting has no effect.

**Manual:** Enable manual control of the camera brightness level. The brightness level is set using the Cameras Camera Brightness DefaultLevel setting.

Default value:

*Auto*

## xConfiguration Cameras Camera [n] Flip

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

With Flip mode (vertical flip), you can flip the image upside down. Flipping applies both to the self-view and the video that is transmitted to the far end.

This setting is not supported by the Quad Camera, the PTZ-12 camera, or the integrated camera of Board Pro, Board Pro G2, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, or Room Panorama.

### USAGE:

xConfiguration Cameras Camera [n] Flip: Flip

where

n: Unique ID that identifies the camera.

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..7 [*BoardPro BoardProG2*]

Flip:

*Auto/Off/On*

**Auto:** If the camera detects that it is mounted upside down, the image is automatically flipped. If the camera cannot auto-detect whether it is mounted upside down or not, the image is not changed. As an example, the Sony PTZ 4K camera cannot auto-detect that it's upside down. If you mount it upside down, you must set this parameter to On.

**Off:** Display the image on screen the normal way.

**On:** Display the image flipped upside down. This setting is used when a camera is mounted upside down, but cannot automatically detect which way it is mounted.

Default value:

*Auto*

## xConfiguration Cameras Camera [n] Focus Mode

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the camera focus mode.

### USAGE:

xConfiguration Cameras Camera [n] Focus Mode: Mode

where

n: Unique ID that identifies the camera.

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..7 [*BoardPro BoardProG2*]

Mode:

*Auto/AutoLimited/Manual* [*CodecPlus CodecPro*]

*Auto/Manual* [*RoomBarPro RoomKitEQX CodecEQ Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*]

**Auto:** The auto focus works differently for different products. For the integrated cameras of Bar Pro, Board Pro, Board Pro G2, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, Room Panorama, and when using the Quad Camera with a codec (Codec EQ, Codec Plus, or Codec Pro), the camera will do single shot auto focusing once a call is connected, and when the view has changed.

When using a Precision 60 or PTZ 4K camera, the camera will do continuous auto focusing. It will run auto focus once a call is connected, after pan, tilt, or zoom, and generally when the camera identifies a change in the scene.

**AutoLimited:** This mode only applies when using a Precision 60 camera with a Codec Plus or Codec Pro. In most cases this mode will operate the same way as auto focus. In some cases, auto-limited will reduce the focus hunting that may occur.

Problematic scenes have large areas with no or low contrast (for example, a painted wall with no details or a partly empty whiteboard). There's a slightly higher chance of background focus with this mode, compared to auto focus.

**Manual:** Turn the auto focus off and adjust the camera focus manually.

Default value:

*Auto*



## xConfiguration Cameras Camera [n] Gamma Level

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

By setting the Gamma Level you can select which gamma correction table to use. This setting may be useful in difficult lighting conditions, where changes to the brightness setting does not provide satisfactory results. Requires the Cameras Camera [n] Gamma Mode to be set to Manual.

This setting is not applicable for the Quad Camera or the integrated cameras of Bar Pro, Board Pro, Board Pro G2, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama. These cameras automatically adjust themselves based on the room lighting conditions. Also, this feature is not supported by the PTZ 4K camera or the PTZ-12 camera.

### USAGE:

xConfiguration Cameras Camera [n] Gamma Level: Level

where

n: Unique ID that identifies the camera.

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..7 [*BoardPro BoardProG2*]

Level:

*Integer (0..7) [BoardPro BoardProG2]*

*Integer (0..14) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

Define the gamma level.

Default value:

0

## xConfiguration Cameras Camera [n] Gamma Mode

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This setting enables gamma corrections. Gamma describes the nonlinear relationship between image pixels and monitor brightness.

This setting is not applicable for the Quad Camera or the integrated cameras of Bar Pro, Board Pro, Board Pro G2, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama. These cameras automatically adjust themselves based on the room lighting conditions. Also, this feature is not supported by the PTZ 4K camera or the PTZ-12 camera.

### USAGE:

xConfiguration Cameras Camera [n] Gamma Mode: Mode

where

n: Unique ID that identifies the camera.

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..7 [*BoardPro BoardProG2*]

Mode:

*Auto/Manual*

**Auto:** Auto is the default and the recommended setting.

**Manual:** In manual mode the gamma value is changed with the gamma level setting, ref. Cameras Camera [n] Gamma Level.

Default value:

*Auto*

## xConfiguration Cameras Camera [n] IrCutFilter Mode

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

This setting applies only to the PTZ 4K camera and will not have any effect on other cameras.

The IR cut filter (infrared cut-off filter) blocks near-infrared wavelengths while passing visible light. In regular lighting conditions, the filter should be on (Day mode) to avoid unwanted side-effects caused by infrared light. However, if you want the camera to capture images in the dark, the filter should be off (Night mode) so that infrared light can be utilized.

### USAGE:

xConfiguration Cameras Camera [n] IrCutFilter Mode: Mode

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

Range: 2..7 [[BoardPro](#) [BoardProG2](#) ]

Mode:

*Auto/Day/Night*

**Auto:** The device switches between Day and Night mode automatically based on changes in brightness. Refer to the IrCutFilter Threshold setting how to control when to switch between the two modes.

**Day:** The IR cut filter is on.

**Night:** The IR cut filter is off.

Default value:

*Day*

## xConfiguration Cameras Camera [n] IrCutFilter Threshold

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

This setting has an effect only when Cameras Camera [n] IrCutFilter Mode is set to Auto, that is, when the camera is set to switch between Day and Night mode automatically. The higher the threshold value, the more light is required to trigger a switch to Day mode.

### USAGE:

xConfiguration Cameras Camera [n] IrCutFilter Threshold: Threshold

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

Range: 2..7 [[BoardPro](#) [BoardProG2](#) ]

Threshold:

*Integer (0..255)*

The higher the number, the more ambient light is required to switch to Day mode.

Default value:

*14*

## xConfiguration Cameras Camera [n] Mirror

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

With Mirror mode (horizontal flip) you can mirror the image on screen. Mirroring applies both to the self-view and the video that is transmitted to the far end. Mirroring is automatically disabled when speaker tracking is on.

This setting is only applicable when using a Precision 60 camera. However, the PTZ 4K camera automatically mirrors the image when the Cameras Camera [n] Flip setting is On.

### USAGE:

xConfiguration Cameras Camera [n] Mirror: Mirror

where

n: Unique ID that identifies the camera.

Range: 1..7 [*RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..7 [*BoardPro BoardProG2*]

Mirror:

*Auto/Off/On*

**Auto**: If the camera detects that it is mounted upside down, the image is automatically mirrored. If the camera cannot auto-detect whether it is mounted upside down or not, the image is not changed.

**Off**: Display the image as other people see you.

**On**: Display the image as you see yourself in a mirror.

Default value:

*Auto*

## xConfiguration Cameras Camera [n] VideoFormat

Applies to: *RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

Set the camera's output video resolution and framerate.

### USAGE:

xConfiguration Cameras Camera [n] VideoFormat: VideoFormat

where

n: Unique ID that identifies the camera.

Range: 1..7

VideoFormat:

*1920\_1080\_30/1920\_1080\_60/3840\_2160\_30*

**1920\_1080\_30**: The camera output is 1920x1080 resolution at 30 frames per second.

**1920\_1080\_60**: The camera output is 1920x1080 resolution at 60 frames per second.

**3840\_2160\_30**: The camera output is 3840x2160 resolution at 30 frames per second (supported only by the PTZ 4K camera).

Default value:

*1920\_1080\_60*

## xConfiguration Cameras Camera [n] Whitebalance Mode

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Define the camera white balance mode.

This setting is not applicable for the integrated camera of Bar Pro, Board Pro, and Board Pro G2, which automatically adjusts itself based on the room lighting conditions.

### USAGE:

xConfiguration Cameras Camera [n] Whitebalance Mode: Mode

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

Range: 2..7 [[BoardPro](#) [BoardProG2](#) ]

Mode:

*Auto/Manual*

**Auto:** The camera will continuously adjust the white balance depending on the camera view.

**Manual:** Enables manual control of the camera white balance. The white balance level is set using the Cameras Camera Whitebalance Level setting.

Default value:

*Auto*

## xConfiguration Cameras Camera [n] Whitebalance Level

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Define the white balance level. Requires the Cameras Camera [n] Whitebalance Mode to be set to Manual.

This setting is not applicable for the integrated camera of Bar Pro, Board Pro, and Board Pro G2, which automatically adjusts itself based on the room lighting conditions. Also, this setting has no effect for the PTZ 4K and PTZ-12 cameras, which are using Sony's One Push mode when the Whitebalance Mode is set to manual.

### USAGE:

xConfiguration Cameras Camera [n] Whitebalance Level: Level

where

n: Unique ID that identifies the camera.

Range: 1..7 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

Range: 2..7 [[BoardPro](#) [BoardProG2](#) ]

Level:

*Integer (1..16)*

The white balance level.

Default value:

*1*

## xConfiguration Cameras Camera ColorSaturation Level

Applies to: [DeskPro](#) [DeskMini](#) [Desk](#)

Requires user role: ADMIN, INTEGRATOR

You can change the color saturation in the video sent from the camera. The higher the number the more saturated (intense) are the colors.

### USAGE:

xConfiguration Cameras Camera ColorSaturation Level: Level

where

Level:

*Integer (-20..20)*

**Range:** The higher the number the more saturated (intense) are the colors. A value of 0 gives a neutral color saturation level. The most negative value removes all color and leaves you with a greyscale image.

Default value:

*0*

## xConfiguration Cameras Camera ExposureCompensation Level

Applies to: [DeskPro](#) [DeskMini](#) [Desk](#)

Requires user role: ADMIN, INTEGRATOR

If you find the camera image always to be too dark (under-exposed) or too bright (over-exposed), you can use this setting to offset the target brightness. The brightness/exposure will continue to be adjusted automatically. This setting has an effect only when the Cameras Camera Brightness Mode is set to Auto.

### USAGE:

xConfiguration Cameras Camera ExposureCompensation Level: Level

where

Level:

*Integer (-3..3)*

A positive number increases brightness in the captured image; a negative number darkens it.

Default value:

0

## xConfiguration Cameras Camera Framerate

Applies to: [RoomKit](#) [RoomKitMini](#) [Room55](#)

Requires user role: ADMIN

As default, the camera outputs 30 frames per second. This allows for good quality both in close-ups and overview pictures for normal bandwidths and lighting conditions. If the conditions are better, a 60 frames per second output from the camera may give a better overall quality.

### USAGE:

xConfiguration Cameras Camera Framerate: Framerate

where

Framerate:

*30/60*

**30:** The camera outputs 30 frames per second.

**60:** The camera outputs 60 frames per second.

Default value:

30

## xConfiguration Cameras PowerLine Frequency

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

If your camera supports power line frequency anti-flickering, the camera is able to compensate for any flicker noise from the electrical power supply. You should set this camera configuration based on your power line frequency. If your camera supports auto detection of line frequency, you can select the Auto option in the configuration.

The Cisco cameras support both anti-flickering and auto detection of line frequency. Auto is the default value, so you should change this setting if you have a camera that does not support auto detection.

### USAGE:

xConfiguration Cameras PowerLine Frequency: Frequency

where

Frequency:

*50Hz/60Hz/Auto*

**50Hz:** Use this value when the power line frequency is 50 Hz.

**60Hz:** Use this value when the power line frequency is 60 Hz.

**Auto:** Allow the camera to detect the power frequency automatically.

Default value:

*Auto*

## xConfiguration Cameras PresenterTrack CameraPosition Pan

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Define the pan position that the presenter tracking camera (PTZ 4K or Precision 60 camera) will move to when the feature is activated.

### USAGE:

xConfiguration Cameras PresenterTrack CameraPosition Pan: Pan

where

Pan:

*Integer (-65535..65535)*

The pan position.

Default value:

0

### xConfiguration Cameras PresenterTrack CameraPosition Tilt

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the tilt position that the presenter tracking camera (PTZ 4K or Precision 60 camera) will move to when the feature is activated.

#### USAGE:

xConfiguration Cameras PresenterTrack CameraPosition Tilt: Tilt

where

Tilt:

*Integer (-65535..65535)*

The tilt position.

Default value:

0

### xConfiguration Cameras PresenterTrack CameraPosition Zoom

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the zoom position that the presenter tracking camera (PTZ 4K or Precision 60 camera) will move to when the feature is activated.

#### USAGE:

xConfiguration Cameras PresenterTrack CameraPosition Zoom: Zoom

where

Zoom:

*Integer (-65535..65535)*

The zoom position.

Default value:

0

### xConfiguration Cameras PresenterTrack Connector

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define which video input connector the presenter tracking camera (PTZ 4K or Precision 60 camera) is connected to.

#### USAGE:

xConfiguration Cameras PresenterTrack Connector: Connector

where

Connector:

*Integer (1..6) [RoomKitEQX CodecEQ CodecPro Room70G2]*

*Integer (1..3) [CodecPlus Room70/Room55D]*

*Integer (3..3) [BoardPro BoardProG2]*

*Integer (2..2) [RoomBarPro]*

The video input connector.

Default value:

1 [RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2]

3 [BoardPro BoardProG2]

2 [RoomBarPro]

### xConfiguration Cameras PresenterTrack Enabled

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define whether or not the PresenterTrack feature is available for use. The feature requires a PTZ 4K or Precision 60 camera as presenter tracking camera.

#### USAGE:

xConfiguration Cameras PresenterTrack Enabled: Enabled

where

Enabled:

*False/True*

**False:** The PresenterTrack feature is disabled.

**True:** The PresenterTrack feature is available for use.

Default value:

*False*

## xConfiguration Cameras PresenterTrack PresenterDetectedStatus

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define whether to enable or disable automatic switching between the Remote Presenter and Local Presenter modes in the Briefing room and Classroom scenarios (Room Type templates). Automatic switching implies that the device switches to Local Presenter mode when a person is detected in the PresenterTrack trigger zone, and that the device switches back to the Remote Presenter mode when the local presenter leaves the stage.

If this setting is enabled, the Cameras PresenterTrack PresenterDetected status will be updated when a new person enters the trigger zone.

Only the Precision 60 and PTZ 4K cameras support presenter tracking. Briefing room is not supported by Codec Plus, Room 70, and Room 55 Dual. This setting is not applicable to Board Pro and Board Pro G2, since neither Briefing room nor Classroom is supported.

### USAGE:

xConfiguration Cameras PresenterTrack PresenterDetectedStatus:  
PresenterDetectedStatus

where

PresenterDetectedStatus:

*Disabled/Enabled*

**Disabled:** No automatic switching between modes.

**Enabled:** Automatic switching between the Local Presenter and Remote Presenter modes.

Default value:

*Enabled*

## xConfiguration Cameras PresenterTrack TriggerZone

Applies to: *RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the trigger zone, which corresponds to the area where a person's head must be detected for presenter tracking to start.

The format is a string of x and y coordinate pairs: "x1,y1,...xn,yn", where the range of x is (0,1920) and y is (0,1080). Two coordinate pairs define the upper left and lower right corner of a rectangular trigger zone. More than two coordinate pairs define the vertices of a polygonal trigger zone.

The feature requires a PTZ 4K or Precision 60 camera as presenter tracking camera.

### USAGE:

xConfiguration Cameras PresenterTrack TriggerZone: "TriggerZone"

where

TriggerZone:

*String (0, 255)*

The coordinates for the trigger zone.

Default value:

*""*

## xConfiguration Cameras SpeakerTrack DefaultBehavior

*Applies to: All products*

Requires user role: ADMIN, USER

The device's automatic framing capabilities depend on the camera. The major framing features are Best overview (the smallest frame that still covers all people in the room; Closeup (zoom in on the active speaker or a group of people close to the speaker); and Frames (composition of closeups of all individuals in the room, and with excess background removed).

Select the cameras default framing mode, which the camera will return to after a call. You can change to another mode from the user interface both in call and out of call.

### USAGE:

xConfiguration Cameras SpeakerTrack DefaultBehavior: [DefaultBehavior](#)

where

[DefaultBehavior](#):

*Auto/BestOverview/Closeup/Current/Frames/Manual* [ *RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2* ]

*Auto/BestOverview/Current/Manual* [ *DeskPro DeskMini Desk* ]

*Auto/BestOverview/Current/Frames/Manual* [ *RoomKitMini* ]

**Auto:** The same as BestOverview.

**BestOverview:** The default framing mode is Best overview.

**Closeup:** The default framing mode is Closeup (speaker tracking).

**Current:** The framing mode is kept unchanged when leaving a call.

**Frames:** The default framing mode is Frames.

**Manual:** The camera is controlled manually. The pan-tilt-zoom values are kept unchanged when leaving a call.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack Frames Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, USER

In Frames camera mode the camera will zoom and show people individually or in smaller groups. These individual and group frames are further composed into one outgoing video stream. In this stream excess background is removed, the people are shown closer to each other, uniform in size, and at the same eye level. The camera supports up to four frames. All the image processing is done on the sender side, so the receiving device doesn't have to support Frames.

Frames mode depends on the speaker tracking functionality; hence also the Cameras SpeakerTrack Mode must be set to Auto for Frames to work.

This feature is not available for Room 70 Panorama and Room Panorama in this software version.

### USAGE:

xConfiguration Cameras SpeakerTrack Frames Mode: [Mode](#)

where

[Mode](#):

*Auto/Off*

**Auto:** The user can switch Frames on and off using the camera controls on the device's user interface.

**Off:** Frames are not available.

Default value:

*Auto*



## xConfiguration Cameras SpeakerTrack HeadDetectorRange

Applies to: [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#)  
[RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, USER

There is a limit how far the head detection algorithm works optimally. In good conditions we recommend keeping the default value. If you experience issues tracking people that are close and toward the sides of the room, consider setting the head detector range to Standard. One side effect of this is that people at far distance, even if centered in the view, may not be detected.

For Codec EQ, Codec Pro, and Codec Plus, this setting applies only when you are using the Quad Camera.

### USAGE:

xConfiguration Cameras SpeakerTrack HeadDetectorRange: HeadDetectorRange

where

HeadDetectorRange:

*Extended/Standard*

**Extended:** The longest range. This applies to a rectangle centered in the camera field-of-view. This rectangle is visualized in the Speakertrack diagnostics view.

**Standard:** The shortest range.

Default value:

*Extended*

## xConfiguration Cameras SpeakerTrack MeetingZone Area

Applies to: *All products*

Requires user role: ADMIN, USER

Defines a meeting zone. This is the area that the speaker track and video framing logic use when deciding what to include in the video frame when the Cameras SpeakerTrack MeetingZone Mode setting is set to Auto.

A meeting zone is polygonal, and it is defined by a string of (x,z) coordinate pairs: "x1,z1, x2,z2, ..., xn,zn", where the coordinate pairs define the vertices of the polygon.

When viewing the room from above, the coordinate pair (0,0) represents the position of the camera; (0,z) represents a point z cm from the camera along the center line of its view; and (x,0) represents a point x cm to the side of the camera. Viewed from the room facing the camera, a positive x-value is to the right and a negative x-value is to the left of the camera. Negative z-values are not used; they would be behind the camera.

The easiest way to define a meeting zone may be to use the graphical tool available under Device settings on the touch user interface.

### USAGE:

xConfiguration Cameras SpeakerTrack MeetingZone Area: "Area"

where

Area:

*String (0, 255)*

The string of coordinate pairs that defines the meeting zone.

Default value:

*""*

## xConfiguration Cameras SpeakerTrack MeetingZone Mode

*Applies to: All products*

Requires user role: ADMIN, USER

The meeting zone feature allows you to limit the area that the speaker track and video framing logic uses when deciding what to include in the video frames. This feature may be useful in open offices, meeting rooms with glass walls, or the like. People outside the defined meeting zone, don't influence the choice of the most suitable video framing.

You can easily define a meeting zone using the touch user interface. Alternatively, you can use the Cameras SpeakerTrack MeetingZone Area setting.

For Codec Plus, Codec Pro, and Codec EQ: The device needs a camera that supports speaker tracking.

### USAGE:

xConfiguration Cameras SpeakerTrack MeetingZone Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** As long as a meeting zone is defined, it will be used. If a meeting zone is not defined, the behavior is the same as Off.

**Off:** The meeting zone feature is not used, regardless of whether a meeting zone is defined or not.

Default value:

*Off*

## xConfiguration Cameras SpeakerTrack ZoomRange MaxZoomFactor

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

There is a trade-off between the zoom range and the quality of a maximum zoomed in picture. The longer the range, the lower the quality.

This setting lets you configure the maximum zoom level for the automatic framing features. The setting has no effect on the manual camera control zoom range.

This setting applies for Cisco cameras (external or internal) that support automatic framing features (not supported with SpeakerTrack 60, PTZ 4K, and PTZ-12 ).

### USAGE:

xConfiguration Cameras SpeakerTrack ZoomRange MaxZoomFactor: MaxZoomFactor

where

MaxZoomFactor:

*2x/3x/4x/5x/Auto [ RoomKitMini ]*

*3x/4x/Auto [ RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]*

*3x/4x/5x/Auto [ RoomKit RoomBar RoomBarPro Room55 BoardPro BoardProG2 ]*

**2x:** Maximum zoom factor for automatic framing features is 2x.

**3x:** Maximum zoom factor for automatic framing features is 3x.

**4x:** Maximum zoom factor for automatic framing features is 4x.

**5x:** Maximum zoom factor for automatic framing features is 5x.

**Auto:** Our recommended zoom range.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting applies only when using a camera with support for speaker tracking or best overview.

**Quad Camera:** Speaker tracking uses automatic camera framing to select the best camera view based on where people are in the room. The Quad Camera uses an audio tracking technique that finds and captures a close-up of the active speaker.

**SpeakerTrack 60 Camera:** The dual camera assembly consists of two cameras and uses an audio tracking technique that finds and captures a close-up of the active speaker. When a change of speaker is detected, the video device can switch automatically between the two cameras to always show the best camera view. Refer to the Cameras SpeakerTrack TrackingMode setting for different switching modes.

Video devices with a built-in speakertrack camera (Room Kit, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, Room Panorama, Board, Board Pro, and Board Pro G2): Speaker tracking uses automatic camera framing to select the best camera view based on where people are in the room. The camera uses an audio tracking technique that finds and captures a close-up of the active speaker.

Video devices with a camera that supports Best overview, but not speaker tracking (Room Kit Mini and Desk series products): Best overview uses automatic camera framing to select the best camera view based on where people are in the room.

### USAGE:

xConfiguration Cameras SpeakerTrack Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** Speaker tracking (not supported on Room Kit Mini or Desk series products) and best overview is switched on. The device will detect people in the room and automatically select the best camera framing. Users can switch the feature on or off instantly in the camera control panel on the touch controller, but the feature is switched back on after each call so that the device is ready for the next user.

**Off:** Speaker tracking (not supported on Room Kit Mini or Desk series products) and best overview is switched off. If you have a SpeakerTrack 60 Camera assembly the two cameras will operate as individual cameras.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack Closeup

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Turn on/off the closeup and group framing feature.

This setting applies only when the Cameras SpeakerTrack Mode is set to Auto. When the closeup functionality is turned on, the device will detect that a person is speaking and select the best framing to cover that person. This is called a closeup and may not include all the persons in the room. If you want all the persons in the room to be in the picture at all times you can turn off the closeup functionality.

### USAGE:

xConfiguration Cameras SpeakerTrack Closeup: Closeup

where

Closeup:

*Auto/Off/On*

**Auto:** The behavior depends on the device type. Board 55/55S/70/70S/85S strive to keep everyone in the room in the camera frame at all times, while other devices will zoom in either solely on the active speaker or the active speaker and the participants in close proximity to him/her (group frame).

**Off:** The device will keep all the persons in the room in the camera framing at all times.

**On:** The device will zoom in on the active speaker or the group frame.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack TrackingMode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro*

Requires user role: ADMIN, INTEGRATOR

This setting applies only when using a SpeakerTrack 60 camera, and when Cameras SpeakerTrack Mode is set to Auto.

The speaker tracking algorithm can react to changes in two modes, one faster than the other. The mode determines when the camera view will change to a new speaker.

### USAGE:

xConfiguration Cameras SpeakerTrack TrackingMode: TrackingMode

where

TrackingMode:

*Auto/Conservative*

**Auto:** This is the normal tracking mode.

**Conservative:** The camera view will change to a new speaker later than in normal tracking mode.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack ConnectorDetection Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro*

Requires user role: ADMIN, INTEGRATOR

This setting applies only when a SpeakerTrack 60 camera is connected to the video device.

Define whether to automatically detect or manually configure which video input each individual camera is connected to. You should choose manual configuration in situations where the video device does not receive EDID information from the cameras. Typically, this will be when you use HDMI repeaters that do not pass on EDID information.

### USAGE:

xConfiguration Cameras SpeakerTrack ConnectorDetection Mode: Mode

where

Mode:

*Auto/Manual*

**Auto:** Automatically detect which video inputs the cameras are connected to.

**Manual:** Manually define which video inputs the cameras are connected to. Use the Cameras SpeakerTrack ConnectorDetection CameraLeft and Cameras SpeakerTrack ConnectorDetection CameraRight settings.

Default value:

*Auto*

## xConfiguration Cameras SpeakerTrack ConnectorDetection CameraLeft

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro*

Requires user role: ADMIN, INTEGRATOR

Define the number of the video input that SpeakerTrack 60's left camera is connected to.

This setting applies only when a SpeakerTrack 60 camera is connected to the video device. Furthermore, Cameras SpeakerTrack ConnectorDetection Mode must be set to Manual.

Codec EQ doesn't support the SpeakerTrack 60 camera.

### USAGE:

xConfiguration Cameras SpeakerTrack ConnectorDetection CameraLeft: CameraLeft

where

CameraLeft:

*Integer (1..5) [CodecPro]*

*Integer (1..3) [CodecPlus]*

Set a valid video input number. For example, set to 1 if the left camera is connected to video input 1.

Default value:

*1*

## xConfiguration Cameras SpeakerTrack ConnectorDetection CameraRight

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro*

Requires user role: ADMIN, INTEGRATOR

Define the number of the video input that SpeakerTrack 60's right camera is connected to.

This setting applies only when a SpeakerTrack 60 camera is connected to the video device. Furthermore, Cameras SpeakerTrack ConnectorDetection Mode must be set to Manual.

Codec EQ doesn't support the SpeakerTrack 60 camera.

### USAGE:

xConfiguration Cameras SpeakerTrack ConnectorDetection CameraRight: CameraRight

CameraRight:

where

CameraRight:

*Integer (1..5) [CodecPro]*

*Integer (1..3) [CodecPlus]*

Set a valid video input number. For example, set to 2 if the right camera is connected to video input 2.

Default value:

*2*

## xConfiguration Cameras SpeakerTrack Whiteboard Mode

*Applies to: RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

This setting belongs to the Snap to whiteboard feature, which is not supported in this software version.

### USAGE:

xConfiguration Cameras SpeakerTrack Whiteboard Mode: Mode  
where

## Conference configuration

### xConfiguration Conference AutoAnswer Mode

*Applies to: All products*

Requires user role: ADMIN

Define the auto answer mode. Use the Conference AutoAnswer Delay setting if you want the device to wait a number of seconds before answering the call, and use the Conference AutoAnswer Mute setting if you want your microphone to be muted when the call is answered.

### USAGE:

xConfiguration Conference AutoAnswer Mode: Mode

where

Mode:

*Off/On*

**Off:** You can answer incoming calls manually by tapping Answer on the touch controller.

**On:** The device automatically answers incoming calls, except if you are already in a call. You can answer or decline incoming calls manually when you are already engaged in a call.

Default value:

*Off*

### xConfiguration Conference AutoAnswer Mute

*Applies to: All products*

Requires user role: ADMIN

Define if the microphone shall be muted when an incoming call is automatically answered. Requires that AutoAnswer Mode is switched on.

### USAGE:

xConfiguration Conference AutoAnswer Mute: Mute

where

Mute:

*Off/On*

**Off:** The incoming call will not be muted.

**On:** The incoming call will be muted when automatically answered.

Default value:

*Off*

## xConfiguration Conference AutoAnswer Delay

*Applies to: All products*

Requires user role: ADMIN

Define how long (in seconds) an incoming call has to wait before it is answered automatically by the device. Requires that AutoAnswer Mode is switched on.

### USAGE:

xConfiguration Conference AutoAnswer Delay: Delay

where

Delay:

*Integer (0..50)*

The auto answer delay (seconds).

Default value:

0

## xConfiguration Conference CapsetFilter

*Applies to: All products*

Requires user role: ADMIN

This setting lets you specify what media codecs should be filtered in media negotiation in H.323 and SIP calls. It should only be used for debug purposes and in agreement with Cisco.

### USAGE:

xConfiguration Conference CapsetFilter: "CapsetFilter"

where

CapsetFilter:

*String (0, 200)*

The filter definition.

Default value:

""

## xConfiguration Conference DefaultCall Protocol

*Applies to: All products*

Requires user role: ADMIN

Define the Default Call Protocol to be used when placing calls from the device.

### USAGE:

xConfiguration Conference DefaultCall Protocol: Protocol

where

Protocol:

*Auto/H323/Sip/Spark*

**Auto:** Enables auto-selection of the call protocol based on which protocols are available. If multiple protocols are available, the order of priority is: 1) SIP; 2) H323. If the device cannot register, the auto-selection chooses H323.

**H323:** All calls are set up as H.323 calls.

**Sip:** All calls are set up as SIP calls.

**Spark:** All calls are set up via the Webex infrastructure.

Default value:

*Auto*

## xConfiguration Conference DefaultCall Rate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the default call rate to be used when placing a call. For Webex meetings, this default may be overridden by the Conference DefaultCall Webex Rate setting.

The call rate will always be limited by the Conference MaxReceiveCallRate and Conference MaxTransmitCallRate settings. If applicable, it is also limited by the Conference MaxMultisiteReceiveRate, and Conference MaxMultiSiteTransmitRate.

### USAGE:

xConfiguration Conference DefaultCall Rate: Rate

where

Rate:

*Integer (64..6000) [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*Integer (64..10000) [ Board ]*

*Integer (64..20000) [ RoomPanorama/Room70Panorama ]*

The default call rate (kbps).

Default value:

*6000 [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*10000 [ Board ]*

*16000 [ RoomPanorama/Room70Panorama ]*

## xConfiguration Conference DefaultCall Webex Rate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the default call rate to be used in Webex meetings. The setting applies only to devices that get software from the Webex cloud service.

The call rate will always be limited by the Conference MaxReceiveCallRate and Conference MaxTransmitCallRate settings.

### USAGE:

xConfiguration Conference DefaultCall Webex Rate: Rate

where

Rate:

*Integer (0..20000) [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*Integer (0..10000) [ Board ]*

*Integer (0..6000) [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D ]*

The default call rate (kbps). If set to 0, the default call rate is given by the Conference DefaultCall Rate setting.

Default value:

*0 [ RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*20000 [ RoomBarPro RoomKitEQX CodecEQ ]*

*10000 [ Board ]*

## xConfiguration Conference DoNotDisturb DefaultTimeout

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting determines the default duration of a Do Not Disturb session, that is, the period when incoming calls are rejected and registered as missed calls. The session can be terminated earlier by using the user interface.

### USAGE:

xConfiguration Conference DoNotDisturb DefaultTimeout: DefaultTimeout

where

DefaultTimeout:

*Integer (1..1440)*

The number of minutes (maximum 1440 minutes = 24 hours) before the Do Not Disturb session times out automatically.

Default value:

*60*

## xConfiguration Conference Diagnostics StreamStatusOverlay

*Applies to: All products*

Requires user role: ADMIN

Decide whether to show information, for example bitrates and framerates, about each video stream on-screen. The information will be shown in a transparent layer on top of each video frame. It's intended for debugging purposes, so in general, it should be Off. The actual data shown may change without further notice.

### USAGE:

```
xConfiguration Conference Diagnostics StreamStatusOverlay:  
StreamStatusOverlay
```

where

```
StreamStatusOverlay:
```

*Off/On*

**Off:** Show only the video streams; no information overlay.

**On:** Show the transparent data layer on top of the video streams.

Default value:

*Off*

## xConfiguration Conference EmbeddedApp NotificationsOnly

*Applies to: DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

With Embedded App support, you can use the device to see and interact with apps that have been initiated by a meeting participant that is using a Webex client.

As an administrator, you can set whether to show the actual app on the device or just a notification that an app is being shared. In the latter case, people must open their meeting client to see and interact with the app.

Embedded apps are using the device's web engine, so the WebEngine Mode setting must be On.

### USAGE:

```
xConfiguration Conference EmbeddedApp NotificationsOnly: NotificationsOnly
```

where

```
NotificationsOnly:
```

*False/True*

**False:** People can see and interact with embedded apps on the device.

**True:** People will see a notification when an embedded app is shared. They can't see or interact with the app on the device; they must use a meeting client.

Default value:

*False*

## xConfiguration Conference Encryption Mode

*Applies to: All products*

Requires user role: ADMIN

Define the conference encryption mode. A padlock with the text "Encryption On" or "Encryption Off" displays on screen for a few seconds when the conference starts.

NOTE: If the Encryption Option Key is not installed on the device, the encryption mode is always Off.

### USAGE:

```
xConfiguration Conference Encryption Mode: Mode
```

where

```
Mode:
```

*Off/On/BestEffort*

**Off:** The device will not use encryption.

**On:** The device will only allow calls that are encrypted.

**BestEffort:** The device will use encryption whenever possible.

> In Point to point calls: If the far end device supports encryption (AES-128), the call will be encrypted. If not, the call will proceed without encryption.

> In MultiSite calls: In order to have encrypted MultiSite conferences, all sites must support encryption. If not, the conference will be unencrypted.

Default value:

*BestEffort*



## xConfiguration Conference EndToEndEncryption Identity PreferredDomain

*Applies to: All products*

Requires user role: ADMIN

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

This configuration is made when the admin sets the device's preferred domain from Control Hub. It is only necessary if the organization has more than one domain.

The device uses this domain when it requests a certificate from the Webex CA. The domain then identifies the device.

This configuration is not applicable when the device has an active, externally-issued certificate to identify itself.

### USAGE:

```
xConfiguration Conference EndToEndEncryption Identity PreferredDomain:  
"PreferredDomain"
```

where

PreferredDomain:

*String (0, 255)*

Default value:

""

## xConfiguration Conference FarEndControl Mode

*Applies to: All products*

Requires user role: ADMIN

Decide if the remote side (far end) is allowed to select video sources and control the camera (pan, tilt, zoom) of the device. It is still possible to control the camera and select your video sources locally.

### USAGE:

```
xConfiguration Conference FarEndControl Mode: Mode
```

where

Mode:

*Auto/Off/On*

**Auto:** The far end is allowed to select video sources or control the camera only when speaker tracking is disabled. Far end control is not allowed on personal mode devices.

**Off:** The far end can't select video sources or control the camera.

**On:** The far end is allowed to select video sources and control the camera on all devices (both personal and shared). Speaker tracking will be disabled when the device receives the first FarEndControl Camera Move command, and then re-enabled when the call ends.

Default value:

*Auto*

## xConfiguration Conference FarEndControl SignalCapability

*Applies to: All products*

Requires user role: ADMIN

Define the far end control (H.224) signal capability mode.

### USAGE:

```
xConfiguration Conference FarEndControl SignalCapability: SignalCapability
```

where

SignalCapability:

*Off/On*

**Off:** Disable the far end control signal capability.

**On:** Enable the far end control signal capability.

Default value:

*On*

## xConfiguration Conference FarendMessage Mode

*Applies to: All products*

Requires user role: ADMIN

Toggle whether it is allowed to send data between two devices in a point-to-point call, for use with control systems or macros. Works with SIP calls only. This setting will enable/disable the use of the xCommand Call FarEndMessage Send command.

### USAGE:

xConfiguration Conference FarendMessage Mode: Mode

where

Mode:

*Off/On*

**Off:** It is not possible to send messages between two devices.

**On:** It is possible to send messages between two devices in a point-to-point call.

Default value:

*Off*

## xConfiguration Conference HideNonVideo OnCall Mode

*Applies to: All products*

Requires user role: ADMIN

Specify in which mode you want to display participants who have their video turned off during meetings.

This feature is only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

xConfiguration Conference HideNonVideo OnCall Mode: Mode

where

Mode:

*Active/Auto/Inactive/Previous*

**Active:** Hide participants whose video is off during meetings, regardless of the usage in the previous call.

**Auto:** Auto will resolve to "Active" at the beginning of calls for shared devices, and to "Previous" for personal devices.

**Inactive:** Show participants whose video is off during meetings, regardless of the usage in previous call.

**Previous:** Previous will set the same state as the last call.

Default value:

*Inactive*

## xConfiguration Conference JoinLeaveNotifications

*Applies to: All products*

Requires user role: ADMIN

Specify when to show notifications of people entering or exiting meetings.

### USAGE:

xConfiguration Conference JoinLeaveNotifications: JoinLeaveNotifications

where

JoinLeaveNotifications:

*Always/Auto/Never*

**Always:** Always show all notifications.

**Auto:** Show notifications only for the first 25 joining participants.

**Never:** Never show notifications.

Default value:

*Auto*

## xConfiguration Conference MaxReceiveCallRate

*Applies to: All products*

Requires user role: ADMIN

Define the maximum receive bit rate to be used when placing or receiving calls. In general, this is the maximum receive bit rate for an individual call.

For on-premises registered devices, the maximum receive bit rate for an individual call is the lowest of the Conference MaxReceiveCallRate and Conference MaxMultisiteReceiveRate settings. In a MultiSite conference, Conference MaxMultisiteReceiveRate is the aggregated maximum for all simultaneous active calls.

### USAGE:

xConfiguration Conference MaxReceiveCallRate: MaxReceiveCallRate

where

MaxReceiveCallRate:

*Integer (64..6000) [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D ]*

*Integer (64..20000) [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*Integer (64..10000) [ Board ]*

The maximum receive call rate (kbps).

Default value:

*6000 [ RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*20000 [ RoomBarPro RoomKitEQX CodecEQ RoomPanorama/Room70Panorama ]*

*10000 [ Board ]*

## xConfiguration Conference MaxTransmitCallRate

*Applies to: All products*

Requires user role: ADMIN

Define the maximum transmit bit rate to be used when placing or receiving calls. In general, this is the maximum transmit bit rate for an individual call.

For on-premises registered devices, the maximum transmit bit rate for an individual call is the lowest of the Conference MaxTransmitCallRate and Conference MaxMultisiteTransmitRate settings. In a MultiSite conference, Conference MaxMultisiteTransmitRate is the aggregated maximum for all simultaneous active calls.

### USAGE:

xConfiguration Conference MaxTransmitCallRate: MaxTransmitCallRate

where

MaxTransmitCallRate:

*Integer (64..6000) [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D ]*

*Integer (64..20000) [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2*

*RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

The maximum transmit call rate (kbps).

Default value:

*6000 [ RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/Room55D  
Room70G2 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*20000 [ RoomBarPro RoomKitEQX CodecEQ RoomPanorama/Room70Panorama ]*

## xConfiguration Conference MaxMultisiteReceiveRate

*Applies to: All products*

Requires user role: ADMIN

This configuration applies when using a device's built-in MultiSite feature (optional) to host a multipoint video conference.

Define the maximum aggregated receive bit rate allowed. The bit rate will be divided fairly among all active calls at any time. This means that the individual calls will be up-speeded or down-speeded as appropriate when someone leaves or enters a MultiSite conference, or when a call is put on hold (suspended) or resumed.

The maximum receive bit rate for each individual call is defined in the Conference MaxReceiveCallRate setting.

### USAGE:

xConfiguration Conference MaxMultisiteReceiveRate: MaxMultisiteReceiveRate

where

MaxMultisiteReceiveRate:

*Integer (64..6000) [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board ]*

*Integer (64..15000) [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2*

*RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

The maximum aggregated receive call rate (kbps) in a MultiSite conference.

Default value:

*6000 [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board ]*

*15000 [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/  
Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

## xConfiguration Conference MaxMultisiteTransmitRate

*Applies to: All products*

Requires user role: ADMIN

This configuration applies when using a device's built-in MultiSite feature (optional) to host a multipoint video conference.

Define the maximum aggregated transmit bit rate allowed. The bit rate will be divided fairly among all active calls at any time. This means that the individual calls will be up-speeded or down-speeded as appropriate when someone leaves or enters a MultiSite conference, or when a call is put on hold (suspended) or resumed.

The maximum transmit bit rate for each individual call is defined in the Conference MaxTransmitCallRate setting.

### USAGE:

xConfiguration Conference MaxMultisiteTransmitRate: MaxMultisiteTransmitRate

where

MaxMultisiteTransmitRate:

*Integer (64..6000) [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board ]*

*Integer (64..15000) [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

The maximum aggregated transmit call rate (kbps) in a MultiSite conference.

Default value:

*6000 [ RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board ]*

*15000 [ RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2 ]*

## xConfiguration Conference MicUnmuteOnDisconnect Mode

*Applies to: All products*

Requires user role: ADMIN

Define if the microphones shall be unmuted automatically when all calls are disconnected. In a meeting room or other shared resources this may be done to prepare the device for the next user.

### USAGE:

xConfiguration Conference MicUnmuteOnDisconnect Mode: Mode

where

Mode:

*Off/On*

**Off:** If muted during a call, let the microphones remain muted after the call is disconnected.

**On:** Unmute the microphones after the call is disconnected.

Default value:

*On*

## xConfiguration Conference Multipoint Mode

*Applies to: All products*

Requires user role: ADMIN

Define how to expand a point-to-point video call (a call involving only two parties) into a multipoint conference with more participants (ad hoc conferences). Both the built-in MultiSite feature, which relies only on local resources, and different solutions based on centralized infrastructure (multipoint control units – MCUs) are available.

The MultiSite feature is an upgrade option and is only available on devices where the MultiSite option key is installed. If registered to a Cisco TelePresence Video Communication Server (VCS), the device can use MultiSite when calling other video devices. If registered to a Cisco Unified Communications Manager (CUCM), the device can use either a CUCM conference bridge or the device's own built-in MultiSite feature. Which option to use, is set up by CUCM.

In either case, multiparty conferences may be set up via an MCU if you call an MCU that allows devices to add participants to a conference (Direct Remote Add).

### USAGE:

xConfiguration Conference Multipoint Mode: Mode

where

Mode:

*Auto/CUCMMediaResourceGroupList/MultiSite/Off*

**Auto:** The multipoint method is selected automatically. Multiparty conferences are set up using the built-in MultiSite feature, provided that the MultiSite option key is installed on the device, and that you are calling another device (not an MCU). Only the MultiSite host can add participants. This prevents cascaded conferences. If the device doesn't have the MultiSite option key, you cannot call more than one device on video. When calling another video device (not an MCU), some devices support adding one extra participant on audio-only.

Regardless of the MultiSite option key, multiparty conferences may be set up via an MCU if you call an MCU that allows devices to add participants to a conference (Direct Remote Add).

**CUCMMediaResourceGroupList:** Multiparty conferences are hosted by the CUCM configured conference bridge. This setting is provisioned by CUCM in a CUCM environment and should never be set manually by the user.

**MultiSite:** Multiparty conferences are set up using the built-in MultiSite feature, provided that the MultiSite option key is installed on the device. If the device doesn't have the MultiSite option key, you cannot call more than one device on video. Some devices support adding one extra participant on audio-only.

**Off:** You cannot call more than one device on video. Multiparty conferences may be set up via an MCU if you call an MCU that allows devices to add participants to a conference (Direct Remote Add). When calling another video device (not an MCU), some devices support adding one extra participant on audio-only.

Default value:

*Auto*

## xConfiguration Conference MultiStream Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

In supported devices, Conference MultiStream Mode provides the option to turn on/off multistream.

### USAGE:

xConfiguration Conference MultiStream Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** Multistream will be used when the conference infrastructure supports the feature. Minimum versions required: CMS 2.2, CUCM 11.5, VCS X8.7.

**Off:** Multistream is disabled. This does not have any effect for devices registered to the Webex cloud service, because these always use multistream. The same applies if your device is linked to Webex Edge for devices and the Webex optimized experience is enabled (that is, joining meetings through the Webex calling infrastructure).

Default value:

*Auto*

## xConfiguration Conference PeopleFocus OnCall Mode

*Applies to: All products*

Requires user role: ADMIN

When you enable people focus, your local layout change dynamically to crop away empty background and optimize each participant's space on your screen. This setting determines whether people focus is initially on or off when joining a meeting.

Regardless of this setting, the user can toggle people focus on and off from the UI (Layout button) during the meeting. Also, the Conference PeopleFocus Activate and Conference PeopleFocus Deactivate commands can be used.

People focus is only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

xConfiguration Conference PeopleFocus OnCall Mode: Mode

where

Mode:

*Auto/Active/Inactive/Previous*

**Auto:** Like Active on shared mode devices; like Previous for personal mode devices.

**Active:** People focus is on when you join a meeting.

**Inactive:** People focus is off when you join a meeting.

**Previous:** When joining a new meeting, the initial people focus state (on or off) is the same as when you left the previous meeting.

Default value:

*Auto*

## xConfiguration Conference Webex CallProtocolIPStack

*Applies to: All products*

Requires user role: ADMIN

This configuration applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

Select whether the device should enable the IPv4 or IPv6 stack for the call protocol (Webex). For SIP and H.323, refer to the Conference CallProtocolIPStack setting.

### USAGE:

xConfiguration Conference Webex CallProtocolIPStack: CallProtocolIPStack  
where

CallProtocolIPStack:

*Auto/Dual/IPv4/IPv6*

**Auto:** The device discovers what the network supports and selects IPv4 or IPv6 based on that. IPv6 support requires NAT64 and DNS64 in the customer's network.

**Dual:** Not supported in this version.

**IPv4:** The call protocol will use IPv4.

**IPv6:** The call protocol will use IPv6. This value requires NAT64 and DNS64 in the customer's network.

Default value:

*Auto*

## FacilityService configuration

### xConfiguration FacilityService Service [n] CallType

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board*

Requires user role: ADMIN, INTEGRATOR

Facility services are no longer supported in RoomOS. Quick dial functionality can be created using UI Extensions and macros instead.

#### USAGE:

xConfiguration FacilityService Service [n] CallType: CallType

where

n: Unique ID that identifies the service.

Range: 1..5

CallType:

*Audio/Video*

Default value:

*Video*

### xConfiguration FacilityService Service [n] Name

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board*

Requires user role: ADMIN, INTEGRATOR

Facility services are no longer supported in RoomOS. Quick dial functionality can be created using UI Extensions and macros instead.

#### USAGE:

xConfiguration FacilityService Service [n] Name: "Name"

where

n: Unique ID that identifies the service.

Range: 1..5

Name:

*String (0, 1024)*

Default value:

*Service 1: "Live Support" Other services: ""*

### xConfiguration FacilityService Service [n] Number

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board*

Requires user role: ADMIN, INTEGRATOR

Facility services are no longer supported in RoomOS. Quick dial functionality can be created using UI Extensions and macros instead.

#### USAGE:

xConfiguration FacilityService Service [n] Number: "Number"

where

n: Unique ID that identifies the service.

Range: 1..5

Number:

*String (0, 1024)*

Default value:

*""*

### xConfiguration FacilityService Service [n] Type

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board*

Requires user role: ADMIN, INTEGRATOR

Facility services are no longer supported in RoomOS. Quick dial functionality can be created using UI Extensions and macros instead.

#### USAGE:

xConfiguration FacilityService Service [n] Type: Type

where

n: Unique ID that identifies the service.

Range: 1..5

Type:

*Catering/Concierge/Emergency/Helpdesk/Security/Transportation/Other*

Default value:

*Helpdesk*

## Files configuration

### xConfiguration Files Services OneDrive TemporaryPersonalSignIn

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When enabled, users can sign into their Microsoft OneDrive account and access their OneDrive files from the device. Also, whiteboards can be accessed, edited, and saved to OneDrive. The user is automatically signed out when the device goes to standby.

This feature is not available for Room 70 Panorama and Room Panorama in this software version.

#### USAGE:

xConfiguration Files Services OneDrive TemporaryPersonalSignIn:  
TemporaryPersonalSignIn

where

TemporaryPersonalSignIn:

*Disabled/Enabled*

**Disabled:** Users don't have access to their OneDrive files and whiteboards from the device.

**Enabled:** Users can sign in and access their OneDrive files and store whiteboards.

Default value:

*Disabled*

### xConfiguration Files Services Webex Spaces

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This command defines whether the options for saving to a new or existing Webex App space will be made available to the user in the save your workflow for whiteboards.

#### USAGE:

xConfiguration Files Services Webex Spaces: Spaces

where

Spaces:

*Disabled/Enabled*

**Disabled:** The users don't have the option to save a whiteboard to a Webex App space.

**Enabled:** The users have the option to save a whiteboard to a Webex App space.

Default value:

*Enabled*

## GPIO configuration

### xConfiguration GPIO Pin [n] Mode

*Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR

The four GPIO pins are configured individually. The actual measured pin state (Low/High) can be retrieved by the GPIO Pin [1..4] State status.

The default state for a pin in output mode is High (+12 V).

NOTE: A pin defined to output mode can be set to force line Low actively. If set to High, the line will be high only when it is not connected to an external device that pulls the line low.

#### USAGE:

xConfiguration GPIO Pin [n] Mode: Mode

where

n: GPIO pin number.

Range: 1..4

Mode:

*InputAcceptAllCalls/InputDisconnectAllCalls/InputMuteMicrophones/InputNoAction/OutputAllCallsEncrypted/OutputInCall/OutputManualState/OutputMicrophonesMuted/OutputPresentationOn/OutputStandbyActive*

**InputAcceptAllCalls:** When the pin transitions from High to Low on an incoming call, the call will be accepted (the Call Accept command is issued automatically).

**InputDisconnectAllCalls:** When the pin transitions from High to Low during a call, call(s) will be disconnected (the Call Disconnect command is issued automatically).

**InputMuteMicrophones:** When the pin transitions from High to Low during a call, the microphones will be muted. When the pin transitions from Low to High during a call, the microphones will be unmuted (the Audio Mute and Audio Unmute commands are issued automatically).

**InputNoAction:** The pin state does not trigger any action. The pin state can be read with the GPIO Pin [1..4] State status.

**OutputAllCallsEncrypted:** The pin is set Low when all calls are encrypted, and High when one or more calls are not encrypted.

**OutputInCall:** The pin is set Low when in call, and High when not in call.

**OutputManualState:** The pin state can be set to High or Low by the GPIO ManualState Set PinX command. It is set to +12 V or 0 V, respectively.

**OutputMicrophonesMuted:** The pin is set Low when the microphones are muted, and High when they are not muted.

**OutputPresentationOn:** The pin is set Low when a presentation is active, and High when a presentation is not active.

**OutputStandbyActive:** The pin is set Low when the device is in standby mode, and High when the device is not in standby mode.

Default value:

*InputNoAction*



## H323 configuration

### xConfiguration H323 Authentication Mode

*Applies to: All products*

Requires user role: ADMIN

Define the authenticatin mode for the H.323 profile.

#### USAGE:

xConfiguration H323 Authentication Mode: Mode

where

Mode:

*Off/On*

**Off:** The device will not try to authenticate itself to a H.323 Gatekeeper, but will still try a normal registration.

**On:** If an H.323 Gatekeeper indicates that it requires authentication, the device will try to authenticate itself to the gatekeeper. Requires the H323 Authentication LoginName and H323 Authentication Password settings to be defined on both the device and the Gatekeeper.

Default value:

*Off*

### xConfiguration H323 Authentication LoginName

*Applies to: All products*

Requires user role: ADMIN

The device sends the H323 Authentication Login Name and the H323 Authentication Password to an H.323 Gatekeeper for authentication. The authentication is a one way authentication from the device to the H.323 Gatekeeper, that is, the device is authenticated to the gatekeeper. If the H.323 Gatekeeper indicates that no authentication is required, the device will still try to register. Requires the H.323 Authentication Mode to be enabled.

#### USAGE:

xConfiguration H323 Authentication LoginName: "LoginName"

where

LoginName:

*String (0, 50)*

The authentication login name.

Default value:

*""*

### xConfiguration H323 Authentication Password

*Applies to: All products*

Requires user role: ADMIN

The device sends the H323 Authentication Login Name and the H323 Authentication Password to an H.323 Gatekeeper for authentication. The authentication is a one way authentication from the device to the H.323 Gatekeeper, that is, the device is authenticated to the gatekeeper. If the H.323 Gatekeeper indicates that no authentication is required, the device will still try to register. Requires the H.323 Authentication Mode to be enabled.

#### USAGE:

xConfiguration H323 Authentication Password: "Password"

where

Password:

*String (0, 50)*

The authentication password.

Default value:

*""*

### xConfiguration H323 CallSetup Mode

*Applies to: All products*

Requires user role: ADMIN

Defines whether to use a Gatekeeper or Direct calling when establishing H.323 calls. Direct H.323 calls can be made also when H323 CallSetup Mode is set to Gatekeeper.

#### USAGE:

xConfiguration H323 CallSetup Mode: Mode

where

Mode:

*Direct/Gatekeeper*

**Direct:** You can only make an H.323 call by dialing an IP address directly.

**Gatekeeper:** The device uses a Gatekeeper to make an H.323 call. When choosing this option, the H323 Gatekeeper Address must also be configured.

Default value:

*Gatekeeper*

## xConfiguration H323 Encryption AES256Support

*Applies to: All products*

Requires user role: ADMIN

The device always supports 128-bit AES encryption keys for the media transport. You can configure the device to also support 256-bit keys. When using 256-bit keys the minimum key size for the Diffie-Hellman key exchange method should be 2048 bit (refer to the H323 Encryption KeySize setting).

### USAGE:

xConfiguration H323 Encryption AES256Support: AES256Support

where

AES256Support:

*Off/On*

*Off*: The device only supports 128-bit AES encryption keys.

*On*: The device supports both 128-bit and 256-bit AES encryption keys.

Default value:

*Off*

## xConfiguration H323 Encryption KeySize

*Applies to: All products*

Requires user role: ADMIN

Define the minimum or maximum key size for the Diffie-Hellman key exchange method, which is used when establishing the Advanced Encryption Standard (AES) encryption key.

### USAGE:

xConfiguration H323 Encryption KeySize: KeySize

where

KeySize:

*Max1024bit/Min1024bit/Min2048bit*

*Max1024bit*: The maximum size is 1024 bit.

*Min1024bit*: The minimum size is 1024 bit.

*Min2048bit*: The minimum size is 2048 bit.

Default value:

*Min1024bit*

## xConfiguration H323 Gatekeeper Address

*Applies to: All products*

Requires user role: ADMIN

Define the IP address of the Gatekeeper. Requires H323 CallSetup Mode to be set to Gatekeeper.

### USAGE:

xConfiguration H323 Gatekeeper Address: "Address"

where

Address:

*String (0, 255)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration H323 H323Alias E164

*Applies to: All products*

Requires user role: ADMIN

The H.323 Alias E.164 defines the address of the device, according to the numbering plan implemented in the H.323 Gatekeeper. The E.164 alias is equivalent to a telephone number, sometimes combined with access codes.

### USAGE:

xConfiguration H323 H323Alias E164: "E164"

where

E164:

*String (0, 30)*

The H.323 Alias E.164 address. Valid characters are 0-9, \* and #.

Default value:

*""*

## xConfiguration H323 H323Alias ID

*Applies to: All products*

Requires user role: ADMIN

Define the H.323 Alias ID, which is used to address the device on a H.323 Gatekeeper and will be displayed in the call lists.

### USAGE:

xConfiguration H323 H323Alias ID: "ID"

where

ID:

*String (0, 49)*

The H.323 Alias ID. Example: "firstname.lastname@company.com", "My H.323 Alias ID"

Default value:

""

## xConfiguration H323 NAT Mode

*Applies to: All products*

Requires user role: ADMIN

The H323 NAT Mode is intended to be used if your device is on a private network and is not registered to a gatekeeper. H323 NAT Mode can then be used to reach devices on a public network.

NAT is not supported for IPv6.

NOTE: The H323 NAT Mode and H323 NAT Address settings will be ignored if the video devices is registered to a gatekeeper. We recommend the use of a gatekeeper with firewall traversal capabilities, rather than using the H323 NAT Mode.

### USAGE:

xConfiguration H323 NAT Mode: Mode

where

Mode:

*Auto/Off/On*

**Auto:** Auto mode works only if you have specified the NAT address in the H323 NAT Address setting.

NAT is turned On if the device is not registered to a gatekeeper, the local address of the device is private, the address you are calling (remote) is public, and both the local and remote addresses are IPv4. Otherwise, NAT is turned Off.

This means that you can place calls to devices on your private network as well as to external devices (outside your private network). For calls on your private network, the H323 NAT Address is not used (but must be present). For calls to the public network, the H323 NAT Address is used.

**Off:** NAT is turned off, and the H323 NAT Address setting will be ignored. In this case you will not be able to set up a call to a device that is outside of your private network unless you use a gatekeeper.

**On:** NAT is always turned on. You must specify the NAT address in the H323 NAT Address setting. The device will always signal the H323 NAT Address instead of its private IP address in Q.931 and H.245. If the H323 NAT Address is wrong or not set, H.323 calls cannot be set up.

Default value:

*Off*

## xConfiguration H323 NAT Address

*Applies to: All products*

Requires user role: ADMIN

Define the external/global IP address of the router with NAT support. This address will be exposed when setting up a call to devices outside your private network. Refer to the H323 NAT Mode setting for details when the NAT Address is used.

In the router, the following ports must be routed to the video device's IP address:

- \* Port 1720
- \* Port 5555-6555
- \* Port 2326-2487

### USAGE:

```
xConfiguration H323 NAT Address: "Address"
```

where

Address:

*String (0, 64)*

An IPv4 address. It's most often a public IP address, refer to RFC 1918, but it could also be another private address (for example in a larger company network).

Default value:

""

## HttpClient configuration

### xConfiguration HttpClient Mode

*Applies to: All products*

Requires user role: ADMIN

Allow or prohibit communication with an external HTTP(S) server using HTTP(S) requests and responses.

### USAGE:

```
xConfiguration HttpClient Mode: Mode
```

where

Mode:

*Off/On*

**Off:** The video device cannot communicate with an external HTTP(S) server.

**On:** The video device is allowed to communicate with an external HTTP(S) server.

Default value:

*Off*

### xConfiguration HttpClient AllowHTTP

*Applies to: All products*

Requires user role: ADMIN

The HttpClient Mode setting is used to allow or prohibit communication with an external HTTP(S) server. The Mode setting does not distinguish between HTTP and HTTPS. You must use the HttpClient AllowHTTP setting to further allow or prohibit the use of HTTP.

### USAGE:

```
xConfiguration HttpClient AllowHTTP: AllowHTTP
```

where

AllowHTTP:

*False/True*

**False:** The video device can communicate only over HTTPS.

**True:** The video device can communicate over both HTTPS and HTTP.

Default value:

*True*

## xConfiguration HttpClient AllowInsecureHTTPS

*Applies to: All products*

Requires user role: ADMIN

You can choose whether or not to allow the video device to communicate with a server over HTTPS without checking the server's certificate first.

Even if the device is allowed to skip the certificate validation process, it doesn't automatically do it. You must specifically set the AllowInsecureHTTPS parameter in each xCommand HttpClient command for data to be exchanged with the server without certificate validation.

### USAGE:

xConfiguration HttpClient AllowInsecureHTTPS: AllowInsecureHTTPS

where

AllowInsecureHTTPS:

*False/True*

**False:** The device always checks that the HTTPS server has a valid certificate. No communication with the server takes place if the certificate validation fails.

**True:** The device is allowed to skip the certificate validation process before communicating with the server.

Default value:

*False*

## xConfiguration HttpClient UseHttpProxy

*Applies to: All products*

Requires user role: ADMIN

There are several UseHttpProxy settings that specify if a service shall communicate via an HTTP proxy or not. The HttpClient UseHttpProxy setting applies to macros and arbitrary HTTP(S) requests using the HttpClient commands.

For this setting to have any effect, a proxy server for HTTP, HTTPS, and WebSocket traffic must be set up using the NetworkServices HTTP Proxy settings.

### USAGE:

xConfiguration HttpClient UseHttpProxy: UseHttpProxy

where

UseHttpProxy:

*Off/On*

**Off:** Set up communication directly with the server (not using a proxy).

**On:** Set up communication via proxy.

Default value:

*On*

## HttpFeedback configuration

### xConfiguration HttpFeedback TlsVerify

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a video device connects to an HTTPS server for arbitrary HTTPS communication (refer to the HttpClient Post/Put/Patch/Get/Delete commands). For phone book, provisioning, and external logging servers, see the Phonebook Server 1 TlsVerify, Provisioning TlsVerify, and Logging External TlsVerify settings.

Before establishing a connection between the device and the HTTPS server, the device checks if the certificate of the server is signed by a trusted Certificate Authority (CA). The CA certificate must be included in the CA list on the device, either pre-installed or manually uploaded using the web interface or API.

In general, the minimum TLS (Transport Layer Security) version for the HTTPS connection is 1.1. There are two exceptions to this rule: 1) For compatibility reasons, the minimum TLS version is 1.0 for devices that are registered to CUCM. 2) Devices registered to the Webex cloud service always use version 1.2.

Note: The value is set to Off for a device that has been upgraded to CE9.9 (or later) from CE9.8 or earlier software versions, provided that the device has not been factory reset after the upgrade, and that the old NetworkServices HTTPS VerifyServerCertificate setting was not explicitly set to On.

### USAGE:

xConfiguration HttpFeedback TlsVerify: TlsVerify

where

TlsVerify:

*Off/On*

**Off:** The device doesn't check the certificate of the HTTPS server.

**On:** The device checks if the certificate of the HTTPS server can be trusted. If not, the connection between the device and the server is not established.

Default value:

*On*

## xConfiguration HttpFeedback UseHttpProxy

*Applies to: All products*

Requires user role: ADMIN

There are several UseHttpProxy settings that specify if a service shall communicate via an HTTP proxy or not. The HttpFeedback UseHttpProxy setting applies to feedback sent from the video device.

For this setting to have any effect, a proxy server for HTTP, HTTPS, and WebSocket traffic must be set up using the NetworkServices HTTP Proxy settings.

### USAGE:

xConfiguration HttpFeedback UseHttpProxy: UseHttpProxy

where

UseHttpProxy:

*Off/On*

**Off:** Set up communication directly with the server (not using a proxy).

**On:** Set up communication via proxy.

Default value:

*On*

## Logging configuration

### xConfiguration Logging CloudUpload Mode

*Applies to: All products*

Requires user role: ADMIN

Specify whether or not logs from the device can be uploaded to the Webex cloud service. The device logs will be filtered for personally-identifiable information before they are sent to the cloud.

When enabled, the log upload can be initiated from the device itself or from Control Hub. The device will display a "Send logs" button on the user interface, and there will be a "Manage Logs" section on the Devices page in Control Hub.

The device must either be registered to the Webex cloud service or registered to an on-premises service and linked to Webex Edge for Devices.

### USAGE:

xConfiguration Logging CloudUpload Mode: Mode

where

Mode:

*Off/On*

**Off:** Logs from the device can not be uploaded to the Webex cloud.

**On:** Logs from the device can be uploaded to the Webex cloud.

Default value:

*Off*

## xConfiguration Logging External Mode

*Applies to: All products*

Requires user role: ADMIN

Specify whether or not to store the device logs on a remote syslog server. This setting has no effect if the Logging Mode setting is set to Off.

You must enter the address of the remote server in the Logging External Server Address setting. Unless otherwise specified in the Logging External Server Port setting, the standard syslog port is used.

### USAGE:

xConfiguration Logging External Mode: Mode

where

Mode:

*Off/On*

**Off:** Device logs will not be stored on the remote syslog server.

**On:** Device logs will be stored on the remote syslog server.

Default value:

*Off*

## xConfiguration Logging External Protocol

*Applies to: All products*

Requires user role: ADMIN

Specify which protocol to use toward the remote logging server. You can use either the syslog protocol over TLS (Transport Layer Security), or the syslog protocol in plaintext. For details about the syslog protocol, see RFC 5424.

### USAGE:

xConfiguration Logging External Protocol: Protocol

where

Protocol:

*Syslog/SyslogTLS*

**Syslog:** Syslog protocol in plain text.

**SyslogTLS:** Syslog protocol over TLS.

Default value:

*SyslogTLS*

## xConfiguration Logging External Server Address

*Applies to: All products*

Requires user role: ADMIN

Specify the address of the remote syslog server.

### USAGE:

xConfiguration Logging External Server Address: "Address"

where

Address:

*String (0, 255)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration Logging External Server Port

*Applies to: All products*

Requires user role: ADMIN

The port that the remote syslog server listens for messages on. If set to 0, the device will use the standard syslog port. The standard syslog port is 514 for syslog, and 6514 for syslog over TLS.

### USAGE:

xConfiguration Logging External Server Port: Port

where

Port:

*Integer (0..65535)*

The number of the port that the remote syslog server is using. 0 means that the device uses the standard syslog port.

Default value:

*514*

## xConfiguration Logging External TlsVerify

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a video device connects to a remote syslog server. It applies to both regular logging (refer to the Logging External Mode setting) and audit logging (refer to the Security Audit Logging Mode setting).

Before establishing a connection between the device and the syslog server, the device checks if the certificate of the server is signed by a trusted Certificate Authority (CA). The CA certificate must be included in the CA list on the device, either pre-installed or manually uploaded using the web interface or API.

The minimum TLS (Transport Layer Security) version for the syslog connection is 1.1.

### USAGE:

xConfiguration Logging External TlsVerify: TlsVerify

where

TlsVerify:

*Off/On*

**Off:** The device doesn't check the certificate of the syslog server.

**On:** The device checks if the certificate of the syslog server can be trusted. If not, the connection between the device and the server is not established.

Default value:

*On*

## xConfiguration Logging Internal Mode

*Applies to: All products*

Requires user role: ADMIN

Specify whether or not to store the system logs on the device (local files). These are the files that you get when you download the log bundles from the device. This setting has no effect if the Logging Mode setting is set to Off.

### USAGE:

xConfiguration Logging Internal Mode: Mode

where

Mode:

*Off/On*

**Off:** System logs will not be stored on the device.

**On:** System logs will be stored on the device.

Default value:

*On*

## xConfiguration Logging Mode

*Applies to: All products*

Requires user role: ADMIN

Define the logging mode for the device (syslog service). When disabled, the syslog service does not start, and most of the system and audit logs are not generated. The Historical Logs and Call Logs are not affected.

### USAGE:

xConfiguration Logging Mode: Mode

where

Mode:

*Off/On*

**Off:** Disable the system logging service.

**On:** Enable the system logging service.

Default value:

*On*



# Macros configuration

## xConfiguration Macros EvaluateTranspiled

*Applies to: All products*

Requires user role: ADMIN

This setting is part of the graceful deprecation strategy of decommissioning the old macro runtime environment that was using Duktape as runtime engine. This runtime engine was also supporting ECMA Script 2009 style Javascript code standard and was under the hood using a transpiler library called Bable.

The runtime engine going forward is QuickJS and supports only ECMA Script 2015/2020 coding standard. QuickJS is the default runtime engine in this software release (use the Macros QuickJS setting to change runtime engine if needed). However, the Bable transpiler is still being used.

There are substantial benefits of QuickJS both regarding speed and features that will be fully unlocked when also the Bable transpiler is disabled. However, as there are some older style Javascript syntax differences between the old and a pure QuickJS environment, Cisco has put in place mechanisms to avoid existing macro deployments suddenly stop working.

The Macros EvaluateTranspiled setting controls whether the macro engine will continue to support the old style "require" format for importing javascript libraries, e.g. `const xapi = require("xapi")`.

As older macros used to have this syntax, the Cisco devices have been graceful in allowing this, by using the Bable library to provide this backwards compatibility.

For macros that are already using the more modern import syntax for libraries, e.g. `import xapi from "xapi"`, Macros EvaluateTranspiled should be set to `False`.

If you set Macros EvaluateTranspiled to `False` and Macros QuickJSEngine to `On`, and your macros are working as intended on the device, then your macro runtime environment is in the state all devices should be in going forward. We will enforce this behavior in a later release.

Note that Macros EvaluateTranspiled is a temporary setting that will be removed once Cisco is content that all customers no longer have macros that are using the old Javascript style for importing libraries.

### USAGE:

xConfiguration Macros EvaluateTranspiled: EvaluateTranspiled

where

EvaluateTranspiled:

*False/True*

**True:** Babel transpiling is enabled. The macro runtime engine accepts old style "require", e.g. `const xapi = require("xapi")`

**False:** Babel transpiling is disabled. Macros containing old style "require", e.g. `const xapi = require("xapi")` will fail. Only e.g. `import xapi from "xapi"` will work.

Default value:

*True*

## xConfiguration Macros Mode

*Applies to: All products*

Requires user role: ADMIN

Macros allow you to write snippets of JavaScript code that can automate parts of your video device, thus creating custom behavior. Use of macros is disabled by default, but the first time you open the Macro Editor you will be asked whether to enable use of macros on the device. Use this setting when you want to manually enable, or to permanently disable the use of macros on the device. You can disable the use of macros within the Macro Editor. But this will not permanently disable macros from running, because every time the device is reset the macros will be re-enabled automatically.

### USAGE:

xConfiguration Macros Mode: Mode

where

Mode:

*Off/On*

**Off:** Permanently disable the use of macros on this device.

**On:** Enable the use of macros on this device.

Default value:

*Off*

## xConfiguration Macros AutoStart

*Applies to: All products*

Requires user role: ADMIN

All the macros run in a single process on the video device, called the macro runtime. It should be running by default, but you can choose to stop and start it manually. If you restart the device, the runtime will automatically start again if auto start is enabled.

### USAGE:

xConfiguration Macros AutoStart: AutoStart

where

AutoStart:

*Off/On*

**Off:** The macro runtime will not start automatically after a restart of the device.

**On:** The macro runtime will start automatically after a restart of the device.

Default value:

*On*

## xConfiguration Macros Diagnostics JavascriptErrors

*Applies to: All products*

Requires user role: ADMIN

Choose whether to issue diagnostics messages for errors in, or related to, macros.

### USAGE:

xConfiguration Macros Diagnostics JavascriptErrors: JavascriptErrors

where

JavascriptErrors:

*Off/On*

**Off:** Don't expose macro logged errors as diagnostics.

**On:** Expose macro logged errors as diagnostics.

Default value:

*Off*

## xConfiguration Macros UnresponsiveTimeout

*Applies to: All products*

Requires user role: ADMIN

Macros are continuously monitored to detect unresponsive code. Unresponsive macros are typically a sign of a programming error, but occasionally it might be due to limited system resources. Increasing the value allows macros to run for longer without being terminated, while decreasing the value ensures that faulty macros do not consume system resources.

### USAGE:

xConfiguration Macros UnresponsiveTimeout: UnresponsiveTimeout

where

UnresponsiveTimeout:

*Integer (0..65535)*

Set the number of seconds before terminating an unresponsive macro. The value 0 disables the check altogether.

Default value:

*5*

## MicrosoftTeams configuration

### xConfiguration MicrosoftTeams Diagnostics ShowUnsupportedConsoleNotification

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

Room Navigators with 2 GB memory are not supported when the video device is configured to run Microsoft Teams. If you are using a 2 GB Room Navigator in this configuration, we provide a notification (unsupported touch device) both on the main screen and in the Issue and diagnostics pages on the device UI and device web interface. If you are using an unsupported Room Navigator, you should work with your Cisco support to replace it.

### USAGE:

xConfiguration MicrosoftTeams Diagnostics ShowUnsupportedConsoleNotification: ShowUnsupportedConsoleNotification

where

ShowUnsupportedConsoleNotification:

*False/True*

**False:** Hide the notification from the main screen. You get notifications in the Issues and diagnostics pages regardless.

**True:** Show the notification on the main screen.

Default value:

*True*

## Network configuration

### xConfiguration Network [n] DNS DNSSEC Mode

*Applies to: All products*

Requires user role: ADMIN

Domain Name System Security extensions (DNSSEC) is a set of extensions to DNS. It is used to authenticate DNS replies for zones that are signed. It will still allow unsigned zones.

#### USAGE:

xConfiguration Network [n] DNS DNSSEC Mode: Mode

where

n: Index that identifies the network.

Range: 1..1

Mode:

*Off/On*

*Off*: Disable Domain Name System Security Extensions.

*On*: Enable Domain Name System Security Extensions.

Default value:

*Off*

### xConfiguration Network [n] DNS Domain Name

*Applies to: All products*

Requires user role: ADMIN

The DNS Domain Name is the default domain name suffix which is added to unqualified names.

Example: If the DNS Domain Name is "company.com" and the name to lookup is "MyDevice", this will result in the DNS lookup "MyDevice.company.com".

#### USAGE:

xConfiguration Network [n] DNS Domain Name: "Name"

where

n: Index that identifies the network.

Range: 1..1

Name:

*String (0, 64)*

The DNS domain name.

Default value:

*""*

### xConfiguration Network [n] DNS Server [m] Address

*Applies to: All products*

Requires user role: ADMIN

Define the network addresses for DNS servers. Up to three addresses may be specified. If the network addresses are unknown, contact your administrator or Internet Service Provider.

#### USAGE:

xConfiguration Network [n] DNS Server [m] Address: "Address"

where

n: Index that identifies the network.

Range: 1..1

m: Index that identifies the DNS server. Maximum three DNS servers are allowed.

Range: 1..3

Address:

*String (0, 64)*

A valid IPv4 address or IPv6 address.

Default value:

*""*

### xConfiguration Network [n] IEEE8021X Mode

*Applies to: All products*

Requires user role: ADMIN

The device can be connected to an IEEE 802.1X LAN network, with a port-based network access control that is used to provide authenticated network access for Ethernet networks.

#### USAGE:

xConfiguration Network [n] IEEE8021X Mode: Mode

where

n: Index that identifies the network.

Range: 1..1

Mode:

*Off/On*

*Off*: The 802.1X authentication is disabled.

*On*: The 802.1X authentication is enabled.

Default value:

*Off*

## xConfiguration Network [n] IEEE8021X TlsVerify

*Applies to: All products*

Requires user role: ADMIN

Verification of the server-side certificate of an IEEE802.1x connection against the certificates in the local CA-list when TLS is used. The CA-list must be uploaded to the video device. This can be done from the device web interface.

This setting takes effect only when Network [1] IEEE8021X Eap Tls is enabled (On).

### USAGE:

xConfiguration Network [n] IEEE8021X TlsVerify: TlsVerify

where

n: Index that identifies the network.

Range: 1..1

TlsVerify:

*Off/On*

**Off:** When set to Off, TLS connections are allowed without verifying the server-side X.509 certificate against the local CA-list. This should typically be selected if no CA-list has been uploaded to the device.

**On:** When set to On, the server-side X.509 certificate will be validated against the local CA-list for all TLS connections. Only servers with a valid certificate will be allowed.

Default value:

*Off*

## xConfiguration Network [n] IEEE8021X UseClientCertificate

*Applies to: All products*

Requires user role: ADMIN

Authentication using a private key/certificate pair during an IEEE802.1x connection. The authentication X.509 certificate must be uploaded to the video device. This can be done from the device web interface.

### USAGE:

xConfiguration Network [n] IEEE8021X UseClientCertificate: UseClientCertificate

where

n: Index that identifies the network.

Range: 1..1

UseClientCertificate:

*Off/On*

**Off:** When set to Off client-side authentication is not used (only server-side).

**On:** When set to On the client (video device) will perform a mutual authentication TLS handshake with the server.

Default value:

*Off*

## xConfiguration Network [n] IEEE8021X Identity

*Applies to: All products*

Requires user role: ADMIN

Define the username for 802.1X authentication.

### USAGE:

xConfiguration Network [n] IEEE8021X Identity: "Identity"

where

n: Index that identifies the network.

Range: 1..1

Identity:

*String (0, 64)*

The username for 802.1X authentication.

Default value:

*""*

## xConfiguration Network [n] IEEE8021X Password

*Applies to: All products*

Requires user role: ADMIN

Define the password for 802.1X authentication.

### USAGE:

xConfiguration Network [n] IEEE8021X Password: "Password"

where

n: Index that identifies the network.

Range: 1..1

Password:

*String (0, 50)*

The password for 802.1X authentication.

Default value:

""

## xConfiguration Network [n] IEEE8021X AnonymousIdentity

*Applies to: All products*

Requires user role: ADMIN

The 802.1X Anonymous ID string is to be used as unencrypted identity with EAP (Extensible Authentication Protocol) types that support different tunneled identity, like EAP-PEAP and EAP-TTLS. If set, the anonymous ID will be used for the initial (unencrypted) EAP Identity Request.

### USAGE:

xConfiguration Network [n] IEEE8021X AnonymousIdentity: "AnonymousIdentity"

where

n: Index that identifies the network.

Range: 1..1

AnonymousIdentity:

*String (0, 64)*

The 802.1X Anonymous ID string.

Default value:

""

## xConfiguration Network [n] IEEE8021X Eap Md5

*Applies to: All products*

Requires user role: ADMIN

Define the Md5 (Message-Digest Algorithm 5) mode. This is a Challenge Handshake Authentication Protocol that relies on a shared secret. Md5 is a Weak security.

### USAGE:

xConfiguration Network [n] IEEE8021X Eap Md5: Md5

where

n: Index that identifies the network.

Range: 1..1

Md5:

*Off/On*

**Off**: The EAP-MD5 protocol is disabled.

**On**: The EAP-MD5 protocol is enabled.

Default value:

*On*

## xConfiguration Network [n] IEEE8021X Eap Ttls

*Applies to: All products*

Requires user role: ADMIN

Define the TTLS (Tunneled Transport Layer Security) mode. Authenticates LAN clients without the need for client certificates. Developed by Funk Software and Certicom. Usually supported by Agere Systems, Proxim and Avaya.

### USAGE:

xConfiguration Network [n] IEEE8021X Eap Ttls: Ttls

where

n: Index that identifies the network.

Range: 1..1

Ttls:

*Off/On*

**Off**: The EAP-TTLS protocol is disabled.

**On**: The EAP-TTLS protocol is enabled.

Default value:

*On*

## xConfiguration Network [n] IEEE8021X Eap Tls

*Applies to: All products*

Requires user role: ADMIN

Enable or disable the use of EAP-TLS (Transport Layer Security) for IEEE802.1x connections. The EAP-TLS protocol, defined in RFC 5216, is considered one of the most secure EAP standards. LAN clients are authenticated using client certificates.

### USAGE:

xConfiguration Network [n] IEEE8021X Eap Tls: Tls

where

n: Index that identifies the network.

Range: 1..1

Tls:

*Off/On*

**Off:** The EAP-TLS protocol is disabled.

**On:** The EAP-TLS protocol is enabled.

Default value:

*On*

## xConfiguration Network [n] IEEE8021X Eap Peap

*Applies to: All products*

Requires user role: ADMIN

Define the Peap (Protected Extensible Authentication Protocol) mode. Authenticates LAN clients without the need for client certificates. Developed by Microsoft, Cisco and RSA Security.

### USAGE:

xConfiguration Network [n] IEEE8021X Eap Peap: Peap

where

n: Index that identifies the network.

Range: 1..1

Peap:

*Off/On*

**Off:** The EAP-PEAP protocol is disabled.

**On:** The EAP-PEAP protocol is enabled.

Default value:

*On*

## xConfiguration Network [n] IPStack

*Applies to: All products*

Requires user role: ADMIN

Select if the device should use IPv4, IPv6, or dual IP stack, on the network interface. It may take up to 30 seconds before a change to this setting takes effect.

### USAGE:

xConfiguration Network [n] IPStack: IPStack

where

n: Index that identifies the network.

Range: 1..1

IPStack:

*Dual/IPv4/IPv6*

**Dual:** When set to Dual, the network interface can operate on both IP versions at the same time, and can have both an IPv4 and an IPv6 address at the same time.

**IPv4:** When set to IPv4, the device will use IPv4 on the network interface.

**IPv6:** When set to IPv6, the device will use IPv6 on the network interface.

Default value:

*Dual*

## xConfiguration Network [n] IPv4 Assignment

*Applies to: All products*

Requires user role: ADMIN

Define how the device will obtain its IPv4 address, subnet mask and gateway address.

The client identifier, which is used in the DHCP requests, is different for different products: MAC address (Touch 10), "01" followed by the MAC address (Room Kit, Room Kit Mini, Room 55, Room 70, Room 70 G2, Room 70 Panorama, Room Panorama, Board, Codec Plus, and Codec Pro), and DHCP Unique Identifier (DUID) as specified in RFC 4361 (other products, including Room Navigator).

### USAGE:

xConfiguration Network [n] IPv4 Assignment: Assignment

where

n: Index that identifies the network.

Range: 1..1

Assignment:

*Static/DHCP*

**Static:** The addresses must be configured manually using the Network IPv4 Address, Network IPv4 Gateway and Network IPv4 SubnetMask settings (static addresses).

**DHCP:** The device addresses are automatically assigned by the DHCP server.

Default value:

*DHCP*

## xConfiguration Network [n] IPv4 Address

*Applies to: All products*

Requires user role: ADMIN

Define the static IPv4 network address for the device. Applicable only when Network IPv4 Assignment is set to Static.

### USAGE:

xConfiguration Network [n] IPv4 Address: Address

where

n: Index that identifies the network.

Range: 1..1

Address:

*String (0, 64)*

A valid IPv4 address.

Default value:

""

## xConfiguration Network [n] IPv4 Gateway

*Applies to: All products*

Requires user role: ADMIN

Define the IPv4 network gateway address. Applicable only when the Network IPv4 Assignment is set to Static.

### USAGE:

xConfiguration Network [n] IPv4 Gateway: Gateway

where

n: Index that identifies the network.

Range: 1..1

Gateway:

*String (0, 64)*

A valid IPv4 address.

Default value:

""

## xConfiguration Network [n] IPv4 InterfaceIdentifier

*Applies to: All products*

Requires user role: ADMIN

Select which identifier to use for IPv4 DHCP.

### USAGE:

xConfiguration Network [n] IPv4 InterfaceIdentifier: InterfaceIdentifier

where

n: Index that identifies the network.

Range: 1..1

InterfaceIdentifier:

*Auto/MAC/Opaque*

**MAC:** The device will send "01" followed by the MAC address of the device as identifier.

**Opaque:** The device will use an RFC4361-based DHCP Unique Identifier (DUID); DUID-LL, based on the link-layer address with no timestamp.

**Auto:** The use of MAC or Opaque as identifier depends on the product. MAC address (Touch 10), "01" followed by the MAC address (Room Kit, Room Kit Mini, Room 55, Room 70, Room 70 G2, Room 70 Panorama, Room Panorama, Board, Codec Plus, and Codec Pro), and DHCP Unique Identifier (DUID) as specified in RFC 4361 (other products, including Room Navigator).

Default value:

*Auto*

## xConfiguration Network [n] IPv4 SubnetMask

*Applies to: All products*

Requires user role: ADMIN

Define the IPv4 network subnet mask. Applicable only when the Network IPv4 Assignment is set to Static.

### USAGE:

xConfiguration Network [n] IPv4 SubnetMask: "SubnetMask"

where

n: Index that identifies the network.

Range: 1..1

SubnetMask:

*String (0, 64)*

A valid IPv4 address.

Default value:

""

## xConfiguration Network [n] IPv6 Assignment

*Applies to: All products*

Requires user role: ADMIN

Define how the device will obtain its IPv6 address, subnet mask and gateway address.

The client identifier, which is used in the DHCP requests, is different for different products: MAC address (Touch 10), "01" followed by the MAC address (Room Kit, Room Kit Mini, Room 55, Room 70, Room 70 G2, Room 70 Panorama, Room Panorama, Board, Codec Plus, and Codec Pro), and DHCP Unique Identifier (DUID) as specified in RFC 4361 (other products, including Room Navigator).

### USAGE:

xConfiguration Network [n] IPv6 Assignment: Assignment

where

n: Index that identifies the network.

Range: 1..1

Assignment:

*Static/DHCPv6/Autoconf*

**Static:** The device and gateway IP addresses must be configured manually using the Network IPv6 Address and Network IPv6 Gateway settings. The options, for example NTP and DNS server addresses, must either be set manually or obtained from a DHCPv6 server. The Network IPv6 DHCPOptions setting determines which method to use.

**DHCPv6:** All IPv6 addresses, including options, will be obtained from a DHCPv6 server. See RFC 3315 for a detailed description. The Network IPv6 DHCPOptions setting will be ignored.

**Autoconf:** Enable IPv6 stateless autoconfiguration of the IPv6 network interface. See RFC 4862 for a detailed description. The options, for example NTP and DNS server addresses, must either be set manually or obtained from a DHCPv6 server. The Network IPv6 DHCPOptions setting determines which method to use.

Default value:

*Autoconf*



## xConfiguration Network [n] IPv6 Address

*Applies to: All products*

Requires user role: ADMIN

Define the static IPv6 network address for the device. Applicable only when the Network IPv6 Assignment is set to Static.

### USAGE:

```
xConfiguration Network [n] IPv6 Address: "Address"
```

where

n: Index that identifies the network.

Range: 1..1

Address:

*String (0, 64)*

A valid IPv6 address including a network mask. Example: 2001:DB8::/48

Default value:

""

## xConfiguration Network [n] IPv6 Gateway

*Applies to: All products*

Requires user role: ADMIN

Define the IPv6 network gateway address. This setting is only applicable when the Network IPv6 Assignment is set to Static.

### USAGE:

```
xConfiguration Network [n] IPv6 Gateway: "Gateway"
```

where

n: Index that identifies the network.

Range: 1..1

Gateway:

*String (0, 64)*

A valid IPv6 address.

Default value:

""

## xConfiguration Network [n] IPv6 DHCPOptions

*Applies to: All products*

Requires user role: ADMIN

Retrieve a set of DHCP options, for example NTP and DNS server addresses, from a DHCPv6 server.

### USAGE:

```
xConfiguration Network [n] IPv6 DHCPOptions: DHCPOptions
```

where

n: Index that identifies the network.

Range: 1..1

DHCPOptions:

*Off/On*

**Off**: Disable the retrieval of DHCP options from a DHCPv6 server.

**On**: Enable the retrieval of a selected set of DHCP options from a DHCPv6 server.

Default value:

*On*

## xConfiguration Network [n] IPv6 InterfaceIdentifier

*Applies to: All products*

Requires user role: ADMIN

Define the IPv6 interface identifier for the device. The interface identifier you choose, either MAC or Opaque, will determine the method that is used for generating part of the the IPv6 address. This is applicable to both link-local IPv6 addresses and Stateless Address Autoconfiguration (SLAAC) addresses.

The address contains a 64-bit prefix and a 64-bit interface identifier generated by the device. With MAC, an EUI-64 based interface identifier is generated, as described in RFC-2373.

With Opaque, a random 64-bit interface identifier is generated as described in RFC-7217 on the first boot of the device, and this is used forever, or until factory reset.

### USAGE:

xConfiguration Network [n] IPv6 InterfaceIdentifier: InterfaceIdentifier

where

n: Index that identifies the network.

Range: 1..1

InterfaceIdentifier:

*MAC/Opaque*

**MAC:** Select MAC as the Interface Identifier method.

**Opaque:** Select Opaque as the Interface Identifier method.

Default value:

*MAC*

## xConfiguration Network [n] MTU

*Applies to: All products*

Requires user role: ADMIN

Define the Ethernet MTU (Maximum Transmission Unit) size. The MTU size must be supported by your network infrastructure. The minimum size is 576 for IPv4 and 1280 for IPv6.

### USAGE:

xConfiguration Network [n] MTU: MTU

where

n: Index that identifies the network.

Range: 1..1

MTU:

*Integer (576..1500)*

Set a value for the MTU (bytes).

Default value:

*1500*

## xConfiguration Network [n] QoS Mode

*Applies to: All products*

Requires user role: ADMIN

The QoS (Quality of Service) is a method which handles the priority of audio, video and other data in the network. The QoS settings must be supported by the infrastructure. Diffserv (Differentiated Services) is a networking architecture that specifies a simple, scalable and coarse-grained mechanism for classifying and managing network traffic. It provides QoS priorities on IP networks.

### USAGE:

xConfiguration Network [n] QoS Mode: Mode

where

n: Index that identifies the network.

Range: 1..1

Mode:

*Off/Diffserv*

**Off:** No QoS method is used.

**Diffserv:** The Network QoS Diffserv Audio, Network QoS Diffserv Video, Network QoS Diffserv Data, Network QoS Diffserv Signalling, Network QoS Diffserv ICMPv6 and Network QoS Diffserv NTP settings are used to prioritize packets.

Default value:

*Diffserv*

## xConfiguration Network [n] QoS Diffserv Audio

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority Audio packets should have in the IP network. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use EF for Audio. EF equals the decimal value 46. This setting also applies to WebRTC meetings.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv Audio: Audio

where

n: Index that identifies the network.

Range: 1..1

Audio:

*Integer (0..63)*

Set the priority of the audio packets in the IP network. 0 means "best-effort".

Default value:

46

## xConfiguration Network [n] QoS Diffserv Video

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority Video packets should have in the IP network. The packets of the presentation channel (shared content) are also in the Video packet category. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use AF41 for Video. AF41 equals the decimal value 34. This setting also applies to WebRTC meetings.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv Video: Video

where

n: Index that identifies the network.

Range: 1..1

Video:

*Integer (0..63)*

Set the priority of the video packets in the IP network. 0 means "best-effort".

Default value:

34

## xConfiguration Network [n] QoS Diffserv Data

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority Data packets should have in the IP network. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use AF41 for Data. AF41 equals the decimal value 34.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv Data: Data

where

n: Index that identifies the network.

Range: 1..1

Data:

*Integer (0..63)*

Set the priority of the data packets in the IP network. 0 means "best-effort".

Default value:

34

## xConfiguration Network [n] QoS Diffserv Signalling

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority Signalling packets that are deemed critical (time-sensitive) for the real-time operation should have in the IP network. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use CS3 for Signalling. CS3 equals the decimal value 24.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv Signalling: Signalling

where

n: Index that identifies the network.

Range: 1..1

Signalling:

*Integer (0..63)*

Set the priority of the signalling packets in the IP network. 0 means "best-effort".

Default value:

24

## xConfiguration Network [n] QoS Diffserv ICMPv6

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority ICMPv6 packets should have in the IP network. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use 0 for ICMPv6.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv ICMPv6: ICMPv6

where

n: Index that identifies the network.

Range: 1..1

ICMPv6:

*Integer (0..63)*

Set the priority of the ICMPv6 packets in the IP network. 0 means "best effort".

Default value:

0

## xConfiguration Network [n] QoS Diffserv NTP

*Applies to: All products*

Requires user role: ADMIN

This setting takes effect only if Network QoS Mode is set to Diffserv.

Define which priority NTP packets should have in the IP network. The traffic classes recommended in the DiffServ RFCs map to a decimal value between 0 and 63. We recommend you use 0 for NTP.

The priority set here might be overridden when packets are leaving the network controlled by the local network administrator.

### USAGE:

xConfiguration Network [n] QoS Diffserv NTP: NTP

where

n: Index that identifies the network.

Range: 1..1

NTP:

*Integer (0..63)*

Set the priority of the NTP packets in the IP network. 0 means "best-effort".

Default value:

0

## xConfiguration Network [n] RemoteAccess Allow

*Applies to: All products*

Requires user role: ADMIN

Define which IP addresses (IPv4/IPv6) are allowed for remote access to the device from SSH/HTTP/HTTPS. Multiple IP addresses are separated by a white space.

A network mask (IP range) is specified by <ip address>/N, where N is 1-32 for IPv4, and N is 1-128 for IPv6. The /N is a common indication of a network mask where the first N bits are set. Thus 192.168.0.0/24 would match any address starting with 192.168.0, since these are the first 24 bits in the address.

### USAGE:

```
xConfiguration Network [n] RemoteAccess Allow: "Allow"
```

where

n: Index that identifies the network.

Range: 1..1

Allow:

*String (0, 255)*

A valid IPv4 address or IPv6 address.

Default value:

""

## xConfiguration Network [n] Speed

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the Ethernet link speed. We recommend not to change from the default value, which negotiates with the network to set the speed automatically. If you do not use auto-negotiation, make sure that the speed you choose is supported by the closest switch in your network infrastructure.

### USAGE:

```
xConfiguration Network [n] Speed: Speed
```

where

n: Index that identifies the network.

Range: 1..1

Speed:

*Auto/10half/10full/100half/100full/1000full*

**Auto**: Auto-negotiate link speed.

**10half**: Force link to 10 Mbps half-duplex.

**10full**: Force link to 10 Mbps full-duplex.

**100half**: Force link to 100 Mbps half-duplex.

**100full**: Force link to 100 Mbps full-duplex.

**1000full**: Force link to 1 Gbps full-duplex.

Default value:

*Auto*

## xConfiguration Network [n] VLAN Voice Mode

*Applies to: All products*

Requires user role: ADMIN

Define the VLAN voice mode. The VLAN Voice Mode will be set to Auto automatically if you have Cisco UCM (Cisco Unified Communications Manager) as provisioning infrastructure. Note that Auto mode will NOT work if the NetworkServices CDP Mode setting is Off.

### USAGE:

xConfiguration Network [n] VLAN Voice Mode: Mode

where

n: Index that identifies the network.

Range: 1..1

Mode:

*Auto/Manual/Off*

**Auto:** The Cisco Discovery Protocol (CDP), if available, assigns an id to the voice VLAN. If CDP is not available, VLAN is not enabled.

**Manual:** The VLAN ID is set manually using the Network VLAN Voice VlanId setting. If CDP is available, the manually set value will be overruled by the value assigned by CDP.

**Off:** VLAN is not enabled.

Default value:

*Auto*

## xConfiguration Network [n] VLAN Voice VlanId

*Applies to: All products*

Requires user role: ADMIN

Define the VLAN voice ID. This setting will only take effect if Network VLAN Voice Mode is set to Manual.

### USAGE:

xConfiguration Network [n] VLAN Voice VlanId: VlanId

where

n: Index that identifies the network.

Range: 1..1

VlanId:

*Integer (1..4094)*

Set the VLAN voice ID.

Default value:

*1*

## NetworkServices configuration

### xConfiguration NetworkServices CDP Mode

*Applies to: All products*

Requires user role: ADMIN

Enable or disable the CDP (Cisco Discovery Protocol) daemon. Enabling CDP will make the device report certain statistics and device identifiers to a CDP-enabled switch. If CDP is disabled, the Network VLAN Voice Mode: Auto setting will not work.

### USAGE:

xConfiguration NetworkServices CDP Mode: Mode

where

Mode:

*Off/On*

**Off:** The CDP daemon is disabled.

**On:** The CDP daemon is enabled.

Default value:

*On*

### xConfiguration NetworkServices H323 Mode

*Applies to: All products*

Requires user role: ADMIN

Define whether the device should be able to place and receive H.323 calls or not.

### USAGE:

xConfiguration NetworkServices H323 Mode: Mode

where

Mode:

*Off/On*

**Off:** Disable the possibility to place and receive H.323 calls.

**On:** Enable the possibility to place and receive H.323 calls.

Default value:

*Off*

## xConfiguration NetworkServices HTTP Mode

*Applies to: All products*

Requires user role: ADMIN

Define whether or not to allow access to the device using the HTTP or HTTPS (HTTP Secure) protocols. Note that the device web interface use HTTP or HTTPS. If this setting is switched Off, you cannot use the device web interface.

For additional security (encryption and decryption of requests and pages that are returned by the web server), allow only HTTPS.

Note: The default value is HTTP+HTTPS for devices that have been upgraded to CE9.4 (or later) from an earlier software version, provided that the device has not been factory reset after the upgrade.

### USAGE:

xConfiguration NetworkServices HTTP Mode: Mode

where

Mode:

*Off/HTTP+HTTPS/HTTPS*

**Off:** Access to the device is not allowed via HTTP or HTTPS.

**HTTP+HTTPS:** Access to the device is allowed via both HTTP and HTTPS.

**HTTPS:** Access to the device is allowed via HTTPS, but not via HTTP.

Default value:

*HTTPS (changed from HTTP+HTTPS to HTTPS in CE9.4)*

## xConfiguration NetworkServices HTTP Proxy LoginName

*Applies to: All products*

Requires user role: ADMIN

This is the username part of the credentials for authentication towards the HTTP proxy. We support the following HTTP authentication schemes: Digest using the MD5 algorithm, and the Basic HTTP authentication scheme.

### USAGE:

xConfiguration NetworkServices HTTP Proxy LoginName: "LoginName"

where

LoginName:

*String (0, 80)*

The authentication login name.

Default value:

*""*

## xConfiguration NetworkServices HTTP Proxy Mode

*Applies to: All products*

Requires user role: ADMIN

You can configure a proxy server for HTTP, HTTPS, and WebSocket traffic. The HTTP proxy can be set up manually, it can be auto-configured (PACUrl), fully automated (WPAD), or it can be turned off.

If NetworkServices HTTP Proxy Mode is not turned Off, you can further specify which services shall use the proxy in the HttpClient UseHttpProxy, HttpFeedback UseHttpProxy, and WebEngine UseHttpProxy settings.

Communication with the Webex cloud will always go via the proxy if NetworkServices HTTP Proxy Mode is not turned Off.

Regardless of the Proxy Mode, the device will never communicate with CUCM or MRA (CUCM via Expressway) via proxy.

If NetworkServices CommonProxy is set to Enabled, HTTP proxy authentication is supported in all proxy modes. The authentication data is configured in the NetworkServices HTTP Proxy LoginName/Password settings. A PAC file can return any number of different proxies for a given request; the device will try to authenticate using these credentials to any proxy requesting it. If NetworkServices CommonProxy set to Disabled, HTTP proxy authentication is supported only in Manual proxy mode.

### USAGE:

xConfiguration NetworkServices HTTP Proxy Mode: Mode

where

Mode:

*Manual/Off/PACUrl/WPAD*

**Manual:** Enter the address of the proxy server in the NetworkServices HTTP Proxy URL setting.

**Off:** The HTTP proxy mode is turned off.

**PACUrl:** The HTTP proxy is auto-configured. You must enter the URL for the PAC (Proxy Auto Configuration) script in the NetworkServices HTTP Proxy PACUrl setting.

**WPAD:** With WPAD (Web Proxy Auto Discovery) the HTTP proxy is fully automated and auto-configured.

Default value:

*Off*



## xConfiguration NetworkServices HTTP Proxy PACUrl

*Applies to: All products*

Requires user role: ADMIN

Set the URL of the PAC (Proxy Auto Configuration) script. Requires that the NetworkServices HTTP Proxy Mode is set to PACUrl.

### USAGE:

```
xConfiguration NetworkServices HTTP Proxy PACUrl: "PACUrl"
```

where

PACUrl:

*String (0, 255)*

The URL of the PAC (Proxy Auto Configuration) script.

Default value:

""

## xConfiguration NetworkServices HTTP Proxy Password

*Applies to: All products*

Requires user role: ADMIN

This is the password part of the credentials for authentication towards the HTTP proxy. We support the following HTTP authentication schemes: Digest using the MD5 algorithm, and the Basic HTTP authentication scheme.

### USAGE:

```
xConfiguration NetworkServices HTTP Proxy Password: "Password"
```

where

Password:

*String (0, 64)*

The authentication password.

Default value:

""

## xConfiguration NetworkServices HTTP Proxy Url

*Applies to: All products*

Requires user role: ADMIN

Set the URL of the HTTP proxy server. Requires that the NetworkServices HTTP Proxy Mode is set to Manual.

### USAGE:

```
xConfiguration NetworkServices HTTP Proxy Url: "Url"
```

where

Url:

*String (0, 255)*

The URL of the HTTP proxy server.

Default value:

""

## xConfiguration NetworkServices HTTPS Server MinimumTLSVersion

*Applies to: All products*

Requires user role: ADMIN

Set the lowest version of the TLS (Transport Layer Security) protocol that is allowed for HTTPS.

### USAGE:

```
xConfiguration NetworkServices HTTPS Server MinimumTLSVersion:
```

MinimumTLSVersion

where

MinimumTLSVersion:

*TLSv1.1/TLSv1.2/TLSv1.3*

**TLSv1.1:** Support of TLS version 1.1 or higher.

**TLSv1.2:** Support of TLS version 1.2 or higher.

**TLSv1.3:** Support of TLS version 1.3 or higher.

Default value:

*TLSv1.1*

## xConfiguration NetworkServices HTTPS StrictTransportSecurity

*Applies to: All products*

Requires user role: ADMIN

The HTTP Strict Transport Security header lets a web site inform the browser that it should never load the site using HTTP and should automatically convert all attempts to access the site using HTTP to HTTPS requests instead.

### USAGE:

```
xConfiguration NetworkServices HTTPS StrictTransportSecurity:  
StrictTransportSecurity
```

where

```
StrictTransportSecurity:
```

*Off/On*

**Off:** The HTTP strict transport security feature is disabled.

**On:** The HTTP strict transport security feature is enabled.

Default value:

*Off*

## xConfiguration NetworkServices HTTPS VerifyClientCertificate

*Applies to: All products*

Requires user role: ADMIN

When the video device connects to an HTTPS client (like a web browser), the client can be asked to present a certificate to the video device to identify itself.

### USAGE:

```
xConfiguration NetworkServices HTTPS VerifyClientCertificate:  
VerifyClientCertificate
```

where

```
VerifyClientCertificate:
```

*Off/On*

**Off:** Do not verify client certificates.

**On:** Requires the client to present a certificate that is signed by a trusted Certificate Authority (CA). This requires that a list of trusted CAs are uploaded to the device in advance.

Default value:

*Off*

## xConfiguration NetworkServices NTP Mode

*Applies to: All products*

Requires user role: ADMIN

The Network Time Protocol (NTP) is used to synchronize the device's time and date to a reference time server. The time server will be queried regularly for time updates.

### USAGE:

```
xConfiguration NetworkServices NTP Mode: Mode
```

where

```
Mode:
```

*Auto/Manual/Off*

**Auto:** The device will use an NTP server for time reference. As default, the server address will be obtained from the network's DHCP server. If a DHCP server is not used, or if the DHCP server does not provide an NTP server address, the NTP server address that is specified in the NetworkServices NTP Server [n] Address setting will be used.

**Manual:** The device will use the NTP server that is specified in the NetworkServices NTP Server [n] Address setting for time reference.

**Off:** The device will not use an NTP server. The NetworkServices NTP Server [n] Address setting will be ignored.

Default value:

*Auto*

## xConfiguration NetworkServices NTP Server [n] Address

*Applies to: All products*

Requires user role: ADMIN

The address of the NTP server that will be used when NetworkServices NTP Mode is set to Manual, and when NetworkServices NTP Mode is set to Auto and no address is supplied by a DHCP server.

### USAGE:

```
xConfiguration NetworkServices NTP Server [n] Address: "Address"
```

where

n: Unique ID for the NTP server.

Range: 1..3

```
Address:
```

*String (0, 255)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*"0.tandberg.pool.ntp.org"*

## xConfiguration NetworkServices NTP Server [n] Key

*Applies to: All products*

Requires user role: ADMIN

To make sure that the NTP information comes from a trusted source, the video device must know the ID/key pair that the NTP source uses. Use the NetworkServices NTP Server [n] Key setting to supply the key. Prefix the key with "HEX:".

### USAGE:

```
xConfiguration NetworkServices NTP Server [n] Key: "Key"
```

where

n: Unique ID for the NTP server.

Range: 1..3

Key:

*String (0, 2045)*

The key, which is part of the ID/key pair that the NTP source uses.

Default value:

""

## xConfiguration NetworkServices NTP Server [n] KeyId

*Applies to: All products*

Requires user role: ADMIN

To make sure that the NTP information comes from a trusted source, the video device must know the ID/key pair that the NTP source uses. Use the NetworkServices NTP Server [n] KeyId settings for the ID.

### USAGE:

```
xConfiguration NetworkServices NTP Server [n] KeyId: "KeyId"
```

where

n: Unique ID for the NTP server.

Range: 1..3

KeyId:

*String (0, 10)*

The ID, which is part of the ID/key pair that the NTP source uses.

Default value:

""

## xConfiguration NetworkServices NTP Server [n] KeyAlgorithm

*Applies to: All products*

Requires user role: ADMIN

Choose the authentication hash function that the NTP server uses, and that the video device must use to authenticate the time messages.

### USAGE:

```
xConfiguration NetworkServices NTP Server [n] KeyAlgorithm: KeyAlgorithm
```

where

n: Unique ID for the NTP server.

Range: 1..3

KeyAlgorithm:

*None/SHA1/SHA256*

**None**: The NTP server doesn't use a hash function.

**SHA1**: The NTP server uses the SHA-1 hash function.

**SHA256**: The NTP server uses the SHA-256 hash function (from the SHA-2 family of hash functions).

Default value:

""

## xConfiguration NetworkServices SIP Mode

*Applies to: All products*

Requires user role: ADMIN

Define whether the device should be able to place and receive SIP calls or not.

### USAGE:

```
xConfiguration NetworkServices SIP Mode: Mode
```

where

Mode:

*Off/On*

**Off**: Disable the possibility to place and receive SIP calls.

**On**: Enable the possibility to place and receive SIP calls.

Default value:

*On*

## xConfiguration NetworkServices SMTP Mode

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

You can set up the device to use SMTP (Simple Mail Transfer Protocol) for sending email from the device to a mail server for relaying. This is required if you want to allow users to send their whiteboards and presentations via email to people inside or outside their organization.

If the device is set up for encrypted communication (see the NetworkServices SMTP Security setting), the device only allows connections where the SMTP server's certificate is validated. There is no option for ignoring the certificate check.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Mode: Mode
```

where

Mode:

*Off/On*

*Off:* Disable SMTP (and email) support.

*On:* Enable SMTP support for sending email.

Default value:

*Off*

## xConfiguration NetworkServices SMTP Server

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

This is the address of the SMTP server.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Server: "Server"
```

where

Server:

*String (0, 255)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration NetworkServices SMTP Port

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

This port is used for outgoing emails from the device to the SMTP server.

Set a port number based on the encryption setting (NetworkServices SMTP Security) and the requirements of the SMTP server. Do not use the default value.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Port: Port
```

where

Port:

*Integer (0..65535)*

The port used for outgoing emails from the device.

Default value:

*0*

## xConfiguration NetworkServices SMTP Username

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

This is the username part of the credentials that are used to authenticate the device with the SMTP server. This setting may be required by the SMTP server.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Username: "Username"
```

where

Username:

*String (0, 80)*

A valid username.

Default value:

*""*

## xConfiguration NetworkServices SMTP Password

Applies to: [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [CodecEQ](#) [CodecPro](#) [DeskPro](#) [DeskMini](#) [Desk Board](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN

This is the password part of the credentials that are used to authenticate the device with the SMTP server. This setting may be required by the SMTP server.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Password: "Password"
```

where

Password:

*String (0, 64)*

A valid password.

Default value:

""

## xConfiguration NetworkServices SMTP From

Applies to: [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecPro](#) [DeskPro](#) [DeskMini](#) [Desk Board](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN

When sending an email message from this device, this is the name of the mailbox that the message is sent from.

SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP From: "From"
```

where

From:

*String (0, 255)*

An email address that meets the requirements of the SMTP server.

Default value:

""

## xConfiguration NetworkServices SMTP Security

Applies to: [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [CodecEQ](#) [CodecPro](#) [DeskPro](#) [DeskMini](#) [Desk Board](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN

Choose if and how to secure the communication between the device and the SMTP server. SMTP is available only on devices with a touch screen (either built-in or connected). Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

```
xConfiguration NetworkServices SMTP Security: Security
```

where

Security:

*None/StartTls/Tls*

**None:** Connect to the SMTP server without encryption.

**StartTls:** Initially connect to the SMTP server without encryption, and then send a STARTTLS command to upgrade to an encrypted connection (TLS).

**Tls:** Connect to the SMTP server over TLS (Transport Layer Security).

Default value:

*StartTls*

## xConfiguration NetworkServices SNMP CommunityName

Applies to: [All products](#)

Requires user role: ADMIN, INTEGRATOR

Define the name of the SNMP community. The SNMP community name is used to authenticate SNMP requests when using SNMP v2c. If an SNMP request from a management system does not include a matching community name (case sensitive), the message is dropped and the SNMP agent in the video device will not send a response.

If you have the Cisco TelePresence Management Suite (TMS) you must make sure the same SNMP community is configured there.

This setting has no effect if using SNMP v3; users and authentication for SNMP v3 is managed using the Network SNMP USM User commands.

### USAGE:

```
xConfiguration NetworkServices SNMP CommunityName: "CommunityName"
```

where

CommunityName:

*String (0, 50)*

The SNMP community name. An empty string means that SNMP v2c is not supported.

Default value:

""

## xConfiguration NetworkServices SNMP Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

SNMP (Simple Network Management Protocol) is used by network management systems to monitor and manage network devices. The video device supports both SNMP v2c and v3. In both cases the device exposes the following object identifiers (OIDs), so that management systems can read and write basic parameters: SNMPv2-MIB::sysDescr (read), SNMPv2 -MIB::sysObjectID (read), DISMAN-EVENT-MIB::sysUpTimeInstance (read), SNMPv2 -MIB::sysContact (read/write), SNMPv2 -MIB::sysName (read/write), SNMPv2 -MIB::sysLocation (read/write), and SNMPv2 -MIB::sysServices (read).

You can limit the SNMP support to v3 only, by setting the NetworkServices SNMP CommunityName to an empty string ("").

### USAGE:

```
xConfiguration NetworkServices SNMP Mode: Mode
```

where

Mode:

*Off/ReadOnly/ReadWrite*

**Off:** Disable the SNMP network service.

**ReadOnly:** Enable the SNMP network service for queries only.

**ReadWrite:** Enable the SNMP network service for both queries and commands.

Default value:

*Off*

## xConfiguration NetworkServices SNMP SystemContact

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define contact information that SNMP servers can use.

### USAGE:

```
xConfiguration NetworkServices SNMP SystemContact: "SystemContact"
```

where

SystemContact:

*String (0, 50)*

String that describes the contact information for the video device.

Default value:

*""*

## xConfiguration NetworkServices SNMP SystemLocation

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Defines location information that SNMP servers can use.

### USAGE:

```
xConfiguration NetworkServices SNMP SystemLocation: "SystemLocation"
```

where

SystemLocation:

*String (0, 50)*

String that describes the location of the video device.

Default value:

*""*

## xConfiguration NetworkServices SSH KeyExchangeAlgorithms AllowLegacy

*Applies to: All products*

Requires user role: ADMIN

Specifies whether legacy SSH key exchange algorithms are allowed.

### USAGE:

```
xConfiguration NetworkServices SSH KeyExchangeAlgorithms AllowLegacy:
```

AllowLegacy

where

AllowLegacy:

*Off/On*

**Off:** The legacy algorithms are disallowed.

**On:** The legacy algorithms are allowed.

Default value:

*On*

## xConfiguration NetworkServices SSH Mode

*Applies to: All products*

Requires user role: ADMIN

The SSH (or Secure Shell) protocol can provide secure encrypted communication between the video device and your local computer.

### USAGE:

xConfiguration NetworkServices SSH Mode: Mode

where

Mode:

*Off/On*

**Off:** The SSH protocol is disabled.

**On:** The SSH protocol is enabled.

Default value:

*On*

## xConfiguration NetworkServices SSH HostKeyAlgorithm

*Applies to: All products*

Requires user role: ADMIN

Choose the cryptographic algorithm that shall be used for the SSH host key. Choices are RSA (Rivest-Shamir-Adleman) with 2048 bits keysize, ECDSA (Elliptic Curve Digital Signature Algorithm) with NIST curve P-384, and EdDSA (Edwards-curve Digital Signature Algorithm) with ed25519 signature schema.

### USAGE:

xConfiguration NetworkServices SSH HostKeyAlgorithm: HostKeyAlgorithm

where

HostKeyAlgorithm:

*ECDSA/RSA/ed25519*

**ECDSA:** Use the ECDSA algorithm (nist-384p).

**RSA:** Use the RSA algorithm (2048 bits).

**ed25519:** Use the ed25519 algorithm.

Default value:

*RSA*

## xConfiguration NetworkServices UPnP Mode

*Applies to: All products*

Requires user role: ADMIN

Fully disable UPnP (Universal Plug and Play), or enable UPnP for a short time period after the video device has been switched on or restarted.

The default operation is that UPnP is enabled when you switch on or restart the video device. Then UPnP is automatically disabled after the timeout period that is defined in the NetworkServices UPnP Timeout setting.

When UPnP is enabled, the device advertises its presence on the network. The advertisement permits a touch controller to discover video devices automatically, and you do not need to manually enter the device's IP address in order to pair the touch controller.

### USAGE:

xConfiguration NetworkServices UPnP Mode: Mode

where

Mode:

*Off/On*

**Off:** UPnP is disabled. The video device does not advertise its presence, and you have to enter the device's IP address manually in order to pair a touch controller to the device.

**On:** UPnP is enabled. The video device advertises its presence until the timeout period expires.

Default value:

*On*

## xConfiguration NetworkServices Websocket

*Applies to: All products*

Requires user role: ADMIN

It is possible to interact with the API of the device over the WebSocket protocol, both the insecure and secure versions (ws and wss). A WebSocket is tied to HTTP, so that also HTTP or HTTPS must be enabled before you can use WebSockets (see the NetworkServices HTTP Mode setting).

### USAGE:

xConfiguration NetworkServices Websocket: Websocket

where

Websocket:

*FollowHTTPService/Off*

**FollowHTTPService:** Communication over the WebSocket protocol is allowed when HTTP or HTTPS is enabled.

**Off:** Communication over the WebSocket protocol is not allowed.

Default value:

*FollowHTTPService*

## xConfiguration NetworkServices WelcomeText

*Applies to: All products*

Requires user role: ADMIN

Choose which information the user should see when logging on to the device through SSH.

### USAGE:

xConfiguration NetworkServices WelcomeText: WelcomeText

where

WelcomeText:

*Off/On*

**Off:** The welcome text is: Login successful

**On:** The welcome text is: Welcome to <system name>; Software version; Software release date; Login successful.

Default value:

*On*

## xConfiguration NetworkServices Wifi Allowed

*Applies to: All products*

Requires user role: ADMIN, USER

Devices that have a built-in Wi-Fi adapter, can connect to the network either via Ethernet or Wi-Fi. Both Ethernet and Wi-Fi are allowed by default, and the user can choose which one to use from the user interface. With this setting, the administrator can disable Wi-Fi configuration, so that it cannot be set up from the user interface.

The devices support the following standards: IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, and IEEE 802.11ac. Codec EQ and Room Bar Pro also support IEEE 802.11ax.

The devices support both open and secured networks. They support WPA2 and WPA3 for Personal or Enterprise, with SHA-128, SHA-256, or Fast Transition (802.11r) key management.

For Personal the following key management protocols are supported: WPA2-PSK and WPA3-SAE, both with CCMP128 (AES) cipher. For Enterprise, IEEE 802.1X (EAP) with CCMP128 (AES) cipher can be used. The following EAP-types are supported: EAP-TLS, EAP-TTLS, EAP-FAST, PEAP (with EAP-MSCHAPv2 or EAP-GTC).

If the PID (Product ID), found on the rating label at the rear of the device, contains the letters NR (No Radio) the device does not support Wi-Fi.

### USAGE:

xConfiguration NetworkServices Wifi Allowed: Allowed

where

Allowed:

*False/True*

**False:** Wi-Fi cannot be used. You must connect to the network via Ethernet.

**True:** Both Ethernet and Wi-Fi are allowed.

Default value:

*True*



## xConfiguration NetworkServices Wifi Settings FrequencyBand

*Applies to: All products*

Requires user role: ADMIN

Set which frequency band to use when connecting the device to the network via Wi-Fi.

### USAGE:

xConfiguration NetworkServices Wifi Settings FrequencyBand: FrequencyBand

where

FrequencyBand:

*2\_4Ghz/5Ghz/Auto*

**2\_4Ghz:** Use the 2.4 GHz band.

**5Ghz:** Use the 5 GHz band.

**Auto:** Use the frequency band that gives the strongest signal. Or, if the access point is set up with band steering, follow the decision made by the access point.

Default value:

*Auto*

## Peripherals configuration

### xConfiguration Peripherals InputDevice Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN

Define whether or not to allow the use of a third-party input device, such as a USB keyboard or a wireless remote control with a USB dongle. The input device must advertise itself as a USB keyboard. You must define and implement the actions to be taken as response to key clicks yourself.

### USAGE:

xConfiguration Peripherals InputDevice Mode: Mode

where

Mode:

*Off/On*

**Off:** A third-party USB input device is not allowed.

**On:** A third-party USB input device can be used to control certain functions on the video device.

Default value:

*Off*

## xConfiguration Peripherals Pairing CiscoTouchPanels HttpProxy

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [Board](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN

This allows a Room Navigator that is directly connected to the video device (that is, locally paired), to access external HTTP(S) servers. To prevent such access, switch this setting Off.

### USAGE:

xConfiguration Peripherals Pairing CiscoTouchPanels HttpProxy: [HttpProxy](#)

where

HttpProxy:

*Auto/Off*

**Auto:** The Room Navigator is allowed to access content on external HTTP(S) servers. The video device will act as an HTTP proxy.

**Off:** The Room Navigator cannot access content on external HTTP(S) servers.

Default value:

*Auto*

## xConfiguration Peripherals Pairing CiscoTouchPanels RemotePairing

Applies to: *All products*

Requires user role: ADMIN

In order to use a touch controller (Room Navigator or Touch 10) as user interface for the video device, the touch controller must be paired to the device. When the touch controller is paired via the network (LAN), this is referred to as remote pairing. Remote pairing is allowed by default; you must switch this setting Off if you want to prevent remote pairing.

Board 55/70 only support Touch 10, not Room Navigator. Board 55S/75S/85S, Codec Plus, Codec Pro, Room Kit, Room Kit Mini, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama support both Room Navigator and Touch 10. The other products support only Room Navigator.

### USAGE:

xConfiguration Peripherals Pairing CiscoTouchPanels RemotePairing:

[RemotePairing](#)

where

RemotePairing:

*Off/On*

**Off:** Remote pairing of the touch controller is not allowed.

**On:** Remote pairing of the touch controller is allowed.

Default value:

*On*

## xConfiguration Peripherals Profile Cameras

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the number of external cameras that are expected to be connected to the video device. This information is used by the device's diagnostics service. If the number of connected cameras does not match this setting, the diagnostics service will report it as an inconsistency.

### USAGE:

xConfiguration Peripherals Profile Cameras: Cameras

where

Cameras:

*NotSet/Minimum1/0/1/2/3/4/5/6/7 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

*0 [DeskPro DeskMini Desk]*

**NotSet:** No camera check is performed.

**Minimum1:** At least one camera should be connected to the device.

**0-7:** Select the number of cameras that are expected to be connected to the device.

Default value:

*Minimum1 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

*0 [DeskPro DeskMini Desk]*

## xConfiguration Peripherals Profile ControlSystems

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define if a third-party control system, for example Crestron or AMX, is expected to be connected to the video device. This information is used by the video device's diagnostics service. If the number of connected control systems does not match this setting, the diagnostics service will report it as an inconsistency. Note that only one third-party control system is supported.

If set to 1, the control system must send heart beats to the video device using xCommand Peripherals HeartBeat command. Failing to do so will cause the video device to show a warning that it has lost connectivity to the control system.

### USAGE:

xConfiguration Peripherals Profile ControlSystems: ControlSystems

where

ControlSystems:

*1/NotSet*

**1:** One third-party control system should be connected to the device.

**NotSet:** No check for a third-party control system is performed.

Default value:

*NotSet*

## xConfiguration Peripherals Profile TouchPanels

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the number of Cisco touch controllers that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected touch controllers does not match this setting, the diagnostics service will report it as an inconsistency.

### USAGE:

xConfiguration Peripherals Profile TouchPanels: [TouchPanels](#)

where

[TouchPanels](#):

*Auto/NotSet/Minimum1/0/1/2/3/4/5* [*RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*]

*0* [*DeskPro DeskMini Desk*]

**Auto:** Resolves to Minimum1 for devices without a touch screen, and to 0 for devices with a touch screen.

**NotSet:** No touch controller check is performed.

**Minimum1:** At least one Cisco touch controller should be connected to the device.

**0-5:** Select the number of Cisco touch controllers that are expected to be connected to the device. The number of Cisco touch controllers that are officially supported are: 0 for Desk series devices, 2 for Room Panorama and Room 70 Panorama, and 1 for the other products.

Default value:

*Auto* [*RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*]

*0* [*DeskPro DeskMini Desk BoardPro BoardProG2*]

## xConfiguration Peripherals Security Certificates SyncToPeripherals Enabled

Applies to: *All products*

Requires user role: ADMIN

Choose whether the CA certificates that you upload to the device also shall apply to a Room Navigator that is connected to the device. It applies both to Navigators that are directly paired and remotely paired to the device.

If you don't want a Room Navigator to get the same certificates as the device it's connected to, this setting must be False.

If this setting is True, also previously uploaded CA certificates will be synchronized to a connected Room Navigator. For the Room Navigator's webengine to be able to use them, you must reboot the device.

### USAGE:

xConfiguration Peripherals Security Certificates SyncToPeripherals Enabled: [Enabled](#)

where

[Enabled](#):

*False/True*

**False:** The uploaded CA certificates only apply to the device itself, not to connected peripherals.

**True:** The uploaded CA certificates apply both to the device itself and to connected peripherals.

Default value:

*True*

## Phonebook configuration

### xConfiguration Phonebook Server [n] ID

*Applies to: All products*

Requires user role: ADMIN

Define a name for the external phone book.

#### USAGE:

xConfiguration Phonebook Server [n] ID: "ID"

where

n: Unique ID that identifies the phonebook server.

Range: 1..1

ID:

*String (0, 64)*

The name for the external phone book.

Default value:

""

### xConfiguration Phonebook Server [n] Pagination

*Applies to: All products*

Requires user role: ADMIN

Configure if the phonebook server supports pagination (paging) or not. Pagination means that the server supports consecutive searches, and these searches can be relative to an offset. This allows the user interface to perform as many consecutive searches as required to get the complete search result.

If Pagination is Disabled the device does a single search and returns a maximum of 100 entries in the search result. It is not possible to scroll to any further search results beyond that.

#### USAGE:

xConfiguration Phonebook Server [n] Pagination: Pagination

where

n: Unique ID that identifies the phonebook server.

Range: 1..1

Pagination:

*Disabled/Enabled*

**Disabled:** The phonebook server does not support pagination. The device does a single search, and the maximum number of entries in the search result is 100.

**Enabled:** The phonebook server supports pagination.

Default value:

*Enabled*

## xConfiguration Phonebook Server [n] TlsVerify

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a video device connects to an external phone book server via HTTPS.

Before establishing a connection between the device and the HTTPS server, the device checks if the certificate of the server is signed by a trusted Certificate Authority (CA). The CA certificate must be included in a CA list on the device, either pre-installed or manually uploaded using the web interface or API. Whether the pre-installed list is checked depends on the phonebook provider (for example, TMS doesn't check the pre-installed list).

In general, the minimum TLS (Transport Layer Security) version for the HTTPS connection is 1.1. There are two exceptions to this rule: 1) For compatibility reasons, the minimum TLS version is 1.0 for devices that are registered to CUCM. 2) Devices registered to the Webex cloud service always use version 1.2.

Note: The value is set to Off for a device that has been upgraded to CE9.9 (or later) from CE9.8 or earlier software versions, provided that the device has not been factory reset after the upgrade, and that the old NetworkServices HTTPS VerifyServerCertificate setting was not explicitly set to On.

### USAGE:

xConfiguration Phonebook Server [n] TlsVerify: TlsVerify

where

TlsVerify:

*Off/On*

**Off:** The device doesn't check the certificate of the HTTPS server.

**On:** The device checks if the certificate of the HTTPS server can be trusted. If not, the connection between the device and the server is not established.

Default value:

*On*

## xConfiguration Phonebook Server [n] Type

*Applies to: All products*

Requires user role: ADMIN

Select the phonebook server type.

### USAGE:

xConfiguration Phonebook Server [n] Type: Type

where

n: Unique ID that identifies the phonebook server.

Range: 1..1

Type:

*Off/CUCM/Spark/TMS/VCS*

**Off:** Do not use a phonebook.

**CUCM:** The phonebook is located on the Cisco Unified Communications Manager.

**Spark:** The phonebook is located in the Webex cloud service.

**TMS:** The phonebook is located on the Cisco TelePresence Management Suite server.

**VCS:** The phonebook is located on the Cisco TelePresence Video Communication Server.

Default value:

*Off*

## xConfiguration Phonebook Server [n] URL

*Applies to: All products*

Requires user role: ADMIN

Define the address (URL) to the external phone book server.

### USAGE:

xConfiguration Phonebook Server [n] URL: URL

where

n: Unique ID that identifies the phonebook server.

Range: 1..1

URL:

*String (0, 255)*

A valid address (URL) to the phone book server.

Default value:

*""*

# Provisioning configuration

## xConfiguration Provisioning Connectivity

*Applies to: All products*

Requires user role: ADMIN, USER

This setting controls how the device discovers whether it should request an internal or external configuration from the provisioning server.

### USAGE:

xConfiguration Provisioning Connectivity: Connectivity  
where

Connectivity:

*Internal/External/Auto*

**Internal:** Request internal configuration.

**External:** Request external configuration.

**Auto:** Automatically discover using NAPTR queries whether internal or external configurations should be requested. If the NAPTR responses have the "e" flag, external configurations will be requested. Otherwise internal configurations will be requested.

Default value:

*Auto*

## xConfiguration Provisioning CUCM CallManagementRecords CallDiagnostics

*Applies to: All products*

Requires user role: ADMIN, USER

Enable devices to send call statistics to CUCM which will then be populated in CUCM's Call Management Records The call statistics are sent to CUCM upon termination of a call.

### USAGE:

xConfiguration Provisioning CUCM CallManagementRecords CallDiagnostics:  
CallDiagnostics

where

CallDiagnostics:

*Disabled/Enabled*

**Enabled:** Enables support for CUCM Call Management Records.

**Disabled:** Disables support for CUCM Call Management Records.

Default value:

*Enabled*

## xConfiguration Provisioning ExternalManager Address

*Applies to: All products*

Requires user role: ADMIN, USER

Define the IP Address or DNS name of the external manager / provisioning system.

If an External Manager Address (and Path) is configured, the device will send a message to this address when starting up. When receiving this message the external manager / provisioning system can return configurations/commands to the unit as a result.

When using CUCM or TMS provisioning, the DHCP server can be set up to provide the external manager address automatically (DHCP Option 242 for TMS, and DHCP Option 150 for CUCM). An address set in the Provisioning ExternalManager Address setting will override the address provided by DHCP.

### USAGE:

xConfiguration Provisioning ExternalManager Address: "Address"  
where

Address:

*String (0, 64)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration Provisioning ExternalManager AlternateAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Only applicable when the device is provisioned by Cisco Unified Communication Manager (CUCM) and an alternate CUCM is available for redundancy. Define the address of the alternate CUCM. If the main CUCM is not available, the device will be provisioned by the alternate CUCM. When the main CUCM is available again, the device will be provisioned by this CUCM.

### USAGE:

xConfiguration Provisioning ExternalManager AlternateAddress:  
"AlternateAddress"

where

AlternateAddress:

*String (0, 64)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration Provisioning ExternalManager Protocol

*Applies to: All products*

Requires user role: ADMIN, USER

Define whether to use the HTTP (unsecure communication) or HTTPS (secure communication) protocol when sending requests to the external manager / provisioning system.

The selected protocol must be enabled in the NetworkServices HTTP Mode setting.

### USAGE:

xConfiguration Provisioning ExternalManager Protocol: Protocol

where

Protocol:

*HTTPS/HTTP*

*HTTPS*: Send requests via HTTPS.

*HTTP*: Send requests via HTTP.

Default value:

*HTTP*

## xConfiguration Provisioning ExternalManager Path

*Applies to: All products*

Requires user role: ADMIN, USER

Define the Path to the external manager / provisioning system. This setting is required when several management services reside on the same server, that is, when they share the same External Manager address.

### USAGE:

xConfiguration Provisioning ExternalManager Path: Path

where

Path:

*String (0, 255)*

A valid path to the external manager or provisioning system.

Default value:

*""*

## xConfiguration Provisioning ExternalManager Domain

*Applies to: All products*

Requires user role: ADMIN, USER

Define the SIP domain for the VCS provisioning server.

### USAGE:

xConfiguration Provisioning ExternalManager Domain: Domain

where

Domain:

*String (0, 64)*

A valid domain name.

Default value:

*""*



## xConfiguration Provisioning Mode

*Applies to: All products*

Requires user role: ADMIN, USER

It is possible to configure a device using a provisioning system (external manager). This allows video conferencing network administrators to manage many devices simultaneously. With this setting you choose which type of provisioning system to use. Provisioning can also be switched off. Contact your provisioning system provider/representative for more information.

### USAGE:

xConfiguration Provisioning Mode: Mode

where

Mode:

*Off/Auto/CUCM/Edge/Webex/TMS/VCS*

**Off:** The device is not configured by a provisioning system.

**Auto:** The provisioning server is automatically selected as set up in the DHCP server.

**CUCM:** Push configurations to the device from CUCM (Cisco Unified Communications Manager).

**Edge:** Push configurations to the device from CUCM (Cisco Unified Communications Manager). The device connects to CUCM via the Expressway infrastructure. In order to register over Expressway the encryption option key must be installed on the device.

**Webex:** Push configurations to the device from the Webex cloud service. In order to register to the Webex cloud service, the encryption option key must be installed on the device.

**TMS:** Push configurations to the device from TMS (Cisco TelePresence Management System).

**VCS:** Push configurations to the device from VCS (Cisco TelePresence Video Communication Server).

Default value:

*Auto*

## xConfiguration Provisioning LoginName

*Applies to: All products*

Requires user role: ADMIN, USER

This is the username part of the credentials used to authenticate the device with the provisioning server. This setting must be used when required by the provisioning server.

### USAGE:

xConfiguration Provisioning LoginName: "LoginName"

where

LoginName:

*String (0, 80)*

A valid username.

Default value:

*""*

## xConfiguration Provisioning Password

*Applies to: All products*

Requires user role: ADMIN, USER

This is the password part of the credentials used to authenticate the device with the provisioning server. This setting must be used when required by the provisioning server.

### USAGE:

xConfiguration Provisioning Password: "Password"

where

Password:

*String (0, 64)*

A valid password.

Default value:

*""*

## xConfiguration Provisioning TlsVerify

*Applies to: All products*

Requires user role: ADMIN, USER

This setting applies when a video device connects to a provisioning server via HTTPS.

Before establishing a connection between the device and the HTTPS server, the device checks if the certificate of the server is signed by a trusted Certificate Authority (CA). The CA certificate must be included in the CA list on the device, either pre-installed or manually uploaded using the web interface or API.

In general, the minimum TLS (Transport Layer Security) version for the HTTPS connection is 1.1. There are two exceptions to this rule: 1) For compatibility reasons, the minimum TLS version is 1.0 for devices that are registered to CUCM. 2) Devices registered to the Webex cloud service always use version 1.2.

Note: The value is set to Off for a device that has been upgraded to CE9.9 (or later) from CE9.8 or earlier software versions, provided that the device has not been factory reset after the upgrade, and that the old NetworkServices HTTPS VerifyServerCertificate setting was not explicitly set to On.

The certificate check is always performed, regardless of this setting, if the device is provisioned from the Webex cloud service or from CUCM via Expressway (also known as MRA or Edge).

### USAGE:

xConfiguration Provisioning TlsVerify: TlsVerify

where

TlsVerify:

*Off/On*

**Off:** The device doesn't check the certificate of the HTTPS server.

**On:** The device checks if the certificate of the HTTPS server can be trusted. If not, the connection between the device and the server is not established.

Default value:

*On*

## xConfiguration Provisioning WebexEdge

*Applies to: All products*

Requires user role: ADMIN, USER

Define if the device is linked to Webex Edge for Devices, which gives access to select Webex cloud services.

The setting applies only to devices that are registered to an on-premises service.

### USAGE:

xConfiguration Provisioning WebexEdge: WebexEdge

where

WebexEdge:

*Off/On*

**Off:** The device is not linked to Webex Edge for Devices.

**On:** The device is linked to Webex Edge for Devices.

Default value:

*Off*

## Proximity configuration

### xConfiguration Proximity AlternatePort Enabled

*Applies to: All products*

Requires user role: ADMIN

This setting applies only when NetworkServices HTTP Mode is set to HTTP+HTTPS or HTTPS.

By default, Proximity connections use TCP port 443. Use this setting to allow Proximity connections also on port 65533.

#### USAGE:

xConfiguration Proximity AlternatePort Enabled: Enabled

where

Enabled:

*False/True*

**False:** Proximity connections always use TCP port 443.

**True:** Proximity connections can use either TCP port 443 or 65533. The port used depends on the client.

Default value:

*False*

### xConfiguration Proximity Mode

*Applies to: All products*

Requires user role: ADMIN, USER

The Proximity Mode setting has no effect for devices that are registered to the Webex cloud service. To prevent a cloud registered device from sending ultrasound pairing messages, you must set Audio Ultrasound MaxVolume to 0.

For devices registered on-premises, the Proximity Mode setting determines whether the device will emit ultrasound pairing messages or not. When the device emits ultrasound pairing messages, Cisco collaboration clients can detect that they are close to the device.

In order to use a client, at least one of the Proximity services must be enabled (refer to the Proximity Services settings) as well. In general, Cisco recommends enabling all the Proximity services.

The Proximity Mode and Audio Ultrasound MaxVolume settings only affect ultrasound pairing messages. To stop all ultrasound emissions, the RoomAnalytics PeoplePresenceDetector and Standby WakeupOnMotionDetection settings must also be switched Off.

#### USAGE:

xConfiguration Proximity Mode: Mode

where

Mode:

*Off/On*

**Off:** Cisco collaboration clients cannot detect that they are close to the device, thus Proximity services cannot be used.

**On:** Cisco collaboration clients can detect that they are close to the device, and enabled Proximity services can be used.

Default value:

*On* [ [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [Board](#) [BoardPro](#) [BoardProG2](#) ]

*Off* [ [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [DeskPro](#) [DeskMini](#) [Desk](#) ]

## xConfiguration Proximity Services CallControl

*Applies to: All products*

Requires user role: ADMIN, USER

Enable or disable basic call control features on Cisco collaboration clients. When this setting is enabled, you are able to control a call using a Cisco collaboration client (for example dial, mute, adjust volume and hang up). This service is supported by mobile devices (iOS and Android). Proximity Mode must be On for this setting to take any effect.

### USAGE:

xConfiguration Proximity Services CallControl: CallControl

where

CallControl:

*Enabled/Disabled*

**Enabled:** Call control from a Cisco collaboration client is enabled.

**Disabled:** Call control from a Cisco collaboration client is disabled.

Default value:

*Disabled*

## xConfiguration Proximity Services ContentShare FromClients

*Applies to: All products*

Requires user role: ADMIN, USER

Enable or disable content sharing from Cisco collaboration clients. When this setting is enabled, you can share content from a Cisco collaboration client wirelessly on the device, for example, share your laptop screen. This service is supported by laptops (OS X and Windows). Proximity Mode must be On for this setting to take any effect.

### USAGE:

xConfiguration Proximity Services ContentShare FromClients: FromClients

where

FromClients:

*Enabled/Disabled*

**Enabled:** Content sharing from a Cisco collaboration client is enabled.

**Disabled:** Content sharing from a Cisco collaboration client is disabled.

Default value:

*Enabled*

## xConfiguration Proximity Services ContentShare ToClients

*Applies to: All products*

Requires user role: ADMIN, USER

This is no longer applicable.

### USAGE:

xConfiguration Proximity Services ContentShare ToClients: ToClients

where

ToClients:

*Disabled*

Default value:

*Disabled*

## RoomAnalytics configuration

### xConfiguration RoomAnalytics AmbientNoiseEstimation Interval

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Set the interval at which the ambient noise estimation is run, if enabled. The xConfiguration RoomAnalytics AmbientNoiseEstimation Mode can be used to enable or disable ambient noise estimations.

#### USAGE:

xConfiguration RoomAnalytics AmbientNoiseEstimation Interval: Interval

where

Interval:

*Integer (10..60)*

Set the interval, in seconds, for how often the ambient noise estimation is run.

Default value:

*10*

### xConfiguration RoomAnalytics AmbientNoiseEstimation Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The device can estimate the stationary ambient noise level (background noise level) in the room. The result is reported in the RoomAnalytics AmbientNoise Level dBA status. The status is updated when a new ambient noise level is detected.

#### USAGE:

xConfiguration RoomAnalytics AmbientNoiseEstimation Mode: Mode

where

Mode:

*Off/On*

*On*: The device regularly estimates the stationary ambient noise level.

*Off*: The device doesn't estimate the stationary ambient noise level.

Default value:

*Off*

### xConfiguration RoomAnalytics PeopleCountOutOfCall

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

By using its camera and head detection, the device has the capability to find how many people are in the room. This setting determines in which scenarios people count is active. People count is never active in networked standby (the second low power / standby stage), which is available for Desk, Desk Mini, Room Bar, and Room Bar Pro. And these devices will not enter networked standby until people count reaches 0.

Codec EQ, Codec Plus, Codec Pro: Applies only when the device has a Quad Camera connected.

#### USAGE:

xConfiguration RoomAnalytics PeopleCountOutOfCall: PeopleCountOutOfCall

where

PeopleCountOutOfCall:

*Off/On*

*Off*: The device counts people only when the device is in a call or when self-view is on.

*On*: The device also counts people outside of call, even if self-view is off. For shared mode devices that are not set up for hot desking, people count is also active when the device is in display off mode (the first low power / standby stage).

Default value:

*Off*

## xConfiguration RoomAnalytics PeoplePresenceDetector

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The device has the capability to find whether people are present in the room and report the result in the RoomAnalytics PeoplePresence status. The device will not keep record of who was in the room, only whether there are people present in the room. Use the RoomAnalytics PeoplePresence Input Ultrasound and RoomAnalytics PeoplePresence Input HeadDetector settings to specify whether to base the people presence detection on ultrasound, head detection, or both.

Ultrasound signals for presence detection are not emitted when both this setting and the Standby WakeupOnMotionDetection Mode setting are switched Off. The Audio Ultrasound MaxVolume and Proximity Mode settings has no effect on presence detection.

### USAGE:

xConfiguration RoomAnalytics PeoplePresenceDetector: PeoplePresenceDetector  
where

PeoplePresenceDetector:

*Off/On*

**Off:** The presence of people in the room is not reported in the device's status.

**On:** The presence of people in the room is reported in the device's status, provided that at least one of the RoomAnalytics PeoplePresence Input Ultrasound and RoomAnalytics PeoplePresence Input HeadDetector settings are turned On.

Default value:

*On*

## xConfiguration RoomAnalytics PeoplePresence Input HeadDetector

*Applies to: All products*

Requires user role: ADMIN

Use this setting to decide whether to use head detection as input source for the people presence reported in the device's RoomAnalytics PeoplePresence status.

This setting has no effect if people presence detection, in general, is switched Off (RoomAnalytics PeoplePresenceDetector: Off).

### USAGE:

xConfiguration RoomAnalytics PeoplePresence Input HeadDetector: HeadDetector  
where

HeadDetector:

*Off/On*

**Off:** Don't use head detection as input source for detecting people presence.

**On:** Use head detection as input source for detecting people presence.

Default value:

*On*

## xConfiguration RoomAnalytics PeoplePresence Input Ultrasound

*Applies to: All products*

Requires user role: ADMIN

Use this setting to decide whether to use ultrasound as input source for the people presence reported in the device's RoomAnalytics PeoplePresence status.

This setting has no effect if people presence detection, in general, is switched Off (RoomAnalytics PeoplePresenceDetector:Off).

### USAGE:

xConfiguration RoomAnalytics PeoplePresence Input Ultrasound: Ultrasound  
where

Ultrasound:

*Off/On*

**Off:** Don't use ultrasound as input for detecting people presence.

**On:** Use ultrasound as input for detecting people presence.

Default value:

*Off*

## xConfiguration RoomAnalytics ReverberationTime Interval

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Defines how often the RT60 will be measured and reported to the RoomAnalytics status. The interval is in seconds.

The RoomAnalytics ReverberationTime Mode configuration must be enabled to set the interval.

### USAGE:

xConfiguration RoomAnalytics ReverberationTime Interval: Interval

where

Interval:

*Integer (60..3600)*

Interval in seconds.

Default value:

*1800*

## xConfiguration RoomAnalytics ReverberationTime Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reverberation time is a measure of how fast a sound will "fade away" or decay in a room. This is highly related to the perception of the acoustic quality of a room.

The Cisco devices are capable of measuring the reverberation time, RT60, directly from the acoustic echo canceller.

As opposed to traditional reverberation time measurement where it is required to emit a noise or impulse signal in the room, the Cisco device will measure RT60 as a "silent measurement".

Due to the silent measurement behavior, the RT60 values will be indicative and not strictly correct according to the ISO 3382-2 standard.

The measurements will measure the RT60 values for each octave band from 125 Hz to 4 kHz.

### USAGE:

xConfiguration RoomAnalytics ReverberationTime Mode: Mode

where

Mode:

*Off/On*

*On*: activate the silent RT60 measurements.

*Off*: deactivate the silent RT60 measurements.

Default value:

*Off*

## xConfiguration RoomAnalytics RoomInUse InCall

*Applies to: All products*

Requires user role: ADMIN

This setting help determine if the room should be marked as "In Use" both for the purpose of making the LED red on a wall mounted navigator (scheduler mode), and to report it in the RoomAnalytics RoomInUse status.

Also see the RoomAnalytics RoomInUse LocalUsage setting.

### USAGE:

```
xConfiguration RoomAnalytics RoomInUse InCall: InCall
```

where

InCall:

*Disabled/Enabled*

**Disabled:** The room will not be marked as "In Use", just because the device is in a call.

**Enabled:** Any type of call will mark the room "In Use".

Default value:

*Enabled*

## xConfiguration RoomAnalytics RoomInUse LocalUsage

*Applies to: All products*

Requires user role: ADMIN

This setting help determine if the room should be marked as "In Use" both for the purpose of making the LED red on a wall mounted navigator (scheduler mode), and to report it in the RoomAnalytics RoomInUse status.

Also see the RoomAnalytics RoomInUse InCall setting.

### USAGE:

```
xConfiguration RoomAnalytics RoomInUse LocalUsage: LocalUsage
```

where

LocalUsage:

*Disabled/Enabled*

**Disabled:** The room will not be marked as "In Use", just because someone is using the whiteboard app or sharing content locally on the device.

**Enabled:** If someone is using the whiteboard app or sharing content locally, the room will be marked as "In Use".

Default value:

*Enabled*

## xConfiguration RoomAnalytics T3AlarmDetection Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

T3 alarm detection allows the device to recognize the audio signal of a T3 fire alarm (T3 is the industry-standard alarm pattern in the United States). If an alarm is detected, the RoomAnalytics T3AlarmDetected status changes from False to True.

Important: It is not guaranteed that the device will detect an alarm. For example, low microphone levels will block detection. Therefore, you should not rely on this feature to raise awareness of an alarm and it does not replace any other safety and security measures and documentation.

### USAGE:

```
xConfiguration RoomAnalytics T3AlarmDetection Mode: Mode
```

where

Mode:

*Off/On*

**Off:** T3 alarm detection is disabled.

**On:** T3 alarm detection is enabled.

Default value:

*Off*

## xConfiguration RoomAnalytics T3AlarmDetection Timeout

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When T3 alarm detection is enabled, if the system detects an alarm the RoomAnalytics T3AlarmDetected status will switch from False to True. The status switches back to False when no alarm has been detected for the number of seconds defined as the timeout.

### USAGE:

```
xConfiguration RoomAnalytics T3AlarmDetection Timeout: Timeout
```

where

Timeout:

*Integer (5..60)*

The timeout period in seconds.

Default value:

*10*



## RoomCleanup configuration

### xConfiguration RoomCleanup AutoRun ContentType TemporaryAccounts

*Applies to: All products*

Requires user role: ADMIN

Delete any temporary accounts that may be logged-in on the device (for example, a OneDrive account accessed through an Enterprise Content Management (ECM) service).

#### USAGE:

xConfiguration RoomCleanup AutoRun ContentType TemporaryAccounts:

TemporaryAccounts

where

TemporaryAccounts:

*Daily/Off*

**Daily:** Enable the daily clearing of temporary accounts.

**Off:** Disable the daily clearing of temporary accounts.

Default value:

*Daily*

### xConfiguration RoomCleanup AutoRun ContentType WebData

*Applies to: All products*

Requires user role: ADMIN

Enable or disable the daily room cleanup of web data. Use RoomCleanup AutoRun HourOfDay to set the time of day.

#### USAGE:

xConfiguration RoomCleanup AutoRun ContentType WebData: WebData

where

WebData:

*Daily/Off*

**Daily:** Enable the daily clearing of web data.

**Off:** Disable the daily clearing of web data.

Default value:

*Daily*

### xConfiguration RoomCleanup AutoRun ContentType Whiteboards

*Applies to: All products*

Requires user role: ADMIN

Enable or disable the daily room cleanup of whiteboards. Use RoomCleanup AutoRun HourOfDay to set the time of day.

#### USAGE:

xConfiguration RoomCleanup AutoRun ContentType Whiteboards: Whiteboards

where

Whiteboards:

*Daily/Off*

**Daily:** Enable the daily clearing of whiteboards.

**Off:** Disable the daily clearing of whiteboards.

Default value:

*Daily*

### xConfiguration RoomCleanup AutoRun HourOfDay

*Applies to: All products*

Requires user role: ADMIN

Set the hour of the day when room cleanup will be performed each day.

#### USAGE:

xConfiguration RoomCleanup AutoRun HourOfDay: HourOfDay

where

HourOfDay:

*Integer (0..23)*

The hour of the day at which the room cleanup will occur.

Default value:

*0*

## RoomScheduler configuration

### xConfiguration RoomScheduler BookingTimeout

*Applies to: All products*

Requires user role: ADMIN

This setting will soon be deprecated. We recommend you start using the AdhocBooking BookingTimeout setting instead.

The scheduler will provide immediate feedback to a user when they book a room or a device; however, the calendar service can take some time to confirm the booking. If it takes too long to get the confirmation and this time exceeds the value set here, the booking will be cleared, and the device or room will be shown as available.

This is applicable to devices registered to the Webex cloud service or linked to Webex Edge for devices.

#### USAGE:

xConfiguration RoomScheduler BookingTimeout: BookingTimeout

where

BookingTimeout:

*Integer (60..300)*

The number of seconds to wait for a confirmation.

Default value:

60

### xConfiguration RoomScheduler Enabled

*Applies to: All products*

Requires user role: ADMIN

This setting will soon be deprecated. We recommend you start using the AdhocBooking Enabled setting instead.

The room scheduling feature allows you to book a room directly from the touch controller that is in the meeting room. You can also extend an ongoing meeting if the room is still available. You can also use the Webex Assistant (voice-driven virtual assistant) to book or extend a meeting.

The room scheduling feature requires that the device is registered to the Webex cloud service or linked to Webex Edge for devices. In addition, the room must be set up with a calendar service that allows booking. The room scheduling feature is not supported on personal mode devices.

#### USAGE:

xConfiguration RoomScheduler Enabled: Enabled

where

Enabled:

*False/True*

**False:** The room scheduling feature is not available.

**True:** The room scheduling feature is available if the prerequisites listed above are met.

Default value:

*False*

## xConfiguration UserInterface RoomScheduler State Available Color

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). You can change the color of the LED strip and the room status icon on Room Navigators. The chosen color is applied to both the LED strip and the room status icon. This setting determines which color to use when the room is available.

Use the UserInterface RoomScheduler State Busy Color and UserInterface RoomScheduler State Pending Color settings to choose which colors to use when the room is occupied, or booked without being occupied, respectively.

### USAGE:

xConfiguration UserInterface RoomScheduler State Available Color: Color

where

Color:

*Aquamarine/Blue/Cyan/Fuchsia/Gold/Green/Lime/Magenta/Off/Orange/Orchid/  
Purple/Red/Scarlet/Turquoise/Violet/Yellow*

Choose a color from the list.

Default value:

*Green*

## xConfiguration UserInterface RoomScheduler State Busy Color

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). You can change the color of the LED strip and the room status icon on Room Navigators. The chosen color is applied to both the LED strip and the room status icon. This setting determines which color to use when the room is occupied.

Use the UserInterface RoomScheduler State Available Color and UserInterface RoomScheduler State Pending Color settings to choose which colors to use when the room is available, or booked without being occupied, respectively.

### USAGE:

xConfiguration UserInterface RoomScheduler State Busy Color: Color

where

Color:

*Aquamarine/Blue/Cyan/Fuchsia/Gold/Green/Lime/Magenta/Off/Orange/Orchid/  
Purple/Red/Scarlet/Turquoise/Violet/Yellow*

Choose a color from the list.

Default value:

*Red*

## xConfiguration UserInterface RoomScheduler State Pending Color

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). You can change the color of the LED strip and the room status icon on Room Navigators. The chosen color is applied to both the LED strip and the room status icon. This setting determines which color to use when the room is booked without being occupied.

Use the UserInterface RoomScheduler State Available Color and UserInterface RoomScheduler State Busy Color settings to choose which colors to use when the room is available or occupied, respectively.

### USAGE:

xConfiguration UserInterface RoomScheduler State Pending Color: Color

where

Color:

*Aquamarine/Blue/Cyan/Fuchsia/Gold/Green/Lime/Magenta/Off/Orange/Orchid/  
Purple/Red/Scarlet/Turquoise/Violet/Yellow*

Choose a color from the list.

Default value:

*Yellow*

# Security configuration

## xConfiguration Security Audit Logging Mode

*Applies to: All products*

Requires user role: AUDIT

Define where to record or transmit the audit logs. The audit logs are sent to a syslog server. This setting has no effect if the Logging Mode setting is set to Off.

When using the External or ExternalSecure mode you must enter the address of the audit server in the Security Audit Server Address setting.

### USAGE:

xConfiguration Security Audit Logging Mode: Mode

where

Mode:

*External/ExternalSecure/Internal/Off*

**External:** The device sends the audit logs to an external syslog server. The syslog server must support UDP.

**ExternalSecure:** The device sends encrypted audit logs to an external syslog server that is verified by a certificate in the Audit CA list. The Audit CA list file must be uploaded to the device using the web interface. The common\_name parameter of a certificate in the CA list must match the IP address or DNS name of the syslog server, and the secure TCP server must be set up to listen for secure (TLS) TCP Syslog messages.

**Internal:** The device records the audit logs to internal logs, and rotates logs when they are full.

**Off:** No audit logging is performed.

Default value:

*Internal*

## xConfiguration Security Audit OnError Action

*Applies to: All products*

Requires user role: AUDIT

Define what happens when the connection to the syslog server is lost. This setting is only relevant when Security Audit Logging Mode is set to ExternalSecure.

### USAGE:

xConfiguration Security Audit OnError Action: Action

where

Action:

*Halt/Ignore*

**Halt:** If a halt condition is detected the device is rebooted and only the auditor is allowed to operate the unit until the halt condition has passed. When the halt condition has passed the audit logs are re-spooled to the syslog server. Halt conditions are: A network breach (no physical link), no syslog server running (or incorrect address or port to the syslog server), TLS authentication failed (if in use), local backup (re-spooling) log full.

**Ignore:** The device will continue its normal operation, and rotate internal logs when full. When the connection is restored it will again send its audit logs to the syslog server.

Default value:

*Ignore*

## xConfiguration Security Audit Server Address

*Applies to: All products*

Requires user role: AUDIT

Set the IP address or DNS name of the syslog server that the audit logs are sent to. This setting is only relevant when Security Audit Logging Mode is set to External or ExternalSecure.

### USAGE:

xConfiguration Security Audit Server Address: "Address"

where

Address:

*String (0, 255)*

A valid IPv4 address, IPv6 address, or DNS name.

Default value:

*""*

## xConfiguration Security Audit Server Port

*Applies to: All products*

Requires user role: AUDIT

The audit logs are sent to a syslog server. Define the port of the syslog server that the device shall send its audit logs to. This setting is only relevant when Security Audit Server PortAssignment is set to Manual.

### USAGE:

xConfiguration Security Audit Server Port: Port

where

Port:

*Integer (0..65535)*

Set the audit server port.

Default value:

*514*

## xConfiguration Security Audit Server PortAssignment

*Applies to: All products*

Requires user role: AUDIT

The audit logs are sent to a syslog server. You can define how the port number of the external syslog server will be assigned. This setting is only relevant when Security Audit Logging Mode is set to External or ExternalSecure. To see which port number is used you can check the Security Audit Server Port status. Navigate to Setup > Status on the web interface or; if on a command line interface, run the command xStatus Security Audit Server Port.

### USAGE:

xConfiguration Security Audit Server PortAssignment: PortAssignment

where

PortAssignment:

*Auto/Manual*

**Auto:** Will use UDP port number 514 when the Security Audit Logging Mode is set to External. Will use TCP port number 6514 when the Security Audit Logging Mode is set to ExternalSecure.

**Manual:** Will use the port value defined in the Security Audit Server Port setting.

Default value:

*Auto*

## xConfiguration Security Fips Mode

*Applies to: All products*

Requires user role: ADMIN

If required, you can set the device in FIPS mode (Federal Information Processing Standard (FIPS) Publication 140-3, Security Requirements for Cryptographic Modules). While in FIPS mode Digest access authentication is not supported between the device and an HTTP Proxy because Digest access authentication is using MD5 cryptographic hashing, which is not allowed in FIPS.

You should allow only HTTPS, and don't switch on SNMP or IEEE8021X in FIPS mode (keep the default values).

For changes to this setting to take full effect, you must restart the device.

### USAGE:

xConfiguration Security Fips Mode: Mode

where

Mode:

*Off/On*

**Off:** The device is not in FIPS mode.

**On:** The device is in FIPS mode.

Default value:

*Off*

## xConfiguration Security Session FailedLoginsLockoutTime

*Applies to: All products*

Requires user role: ADMIN

Define how long the device will lock out a user after failed login to a web or SSH session.

Restart the device for any change to this setting to take effect.

### USAGE:

xConfiguration Security Session FailedLoginsLockoutTime:

FailedLoginsLockoutTime

where

FailedLoginsLockoutTime:

*Integer (0..10000)*

Set the lockout time (minutes).

Default value:

*60*

## xConfiguration Security Session InactivityTimeout

*Applies to: All products*

Requires user role: ADMIN

Define how long the device will accept inactivity from the user before automatically logging out from a web or SSH session.

Restart the device for any change to this setting to take effect.

### USAGE:

xConfiguration Security Session InactivityTimeout: InactivityTimeout

where

InactivityTimeout:

*Integer (0..10000)*

Set the inactivity timeout (minutes). Specifying 0 will result in a time out of 1 hour. The maximum timeout length is 12 hours.

Default value:

0

## xConfiguration Security Session MaxFailedLogins

*Applies to: All products*

Requires user role: ADMIN

Define the maximum number of failed login attempts per user for a web or SSH session. If the user exceeded the maximum number of attempts the user will be locked out. 0 means that there is no limit for failed logins.

Restart the device for any change to this setting to take effect.

### USAGE:

xConfiguration Security Session MaxFailedLogins: MaxFailedLogins

where

MaxFailedLogins:

*Integer (0..10)*

Set the maximum number of failed login attempts per user.

Default value:

0

## xConfiguration Security Session MaxSessionsPerUser

*Applies to: All products*

Requires user role: ADMIN

The maximum number of simultaneous sessions per user is 20 sessions.

### USAGE:

xConfiguration Security Session MaxSessionsPerUser: MaxSessionsPerUser

where

MaxSessionsPerUser:

*Integer (1..20)*

Set the maximum number of simultaneous sessions per user.

Default value:

20

## xConfiguration Security Session MaxTotalSessions

*Applies to: All products*

Requires user role: ADMIN

Set the maximum number of simultaneous sessions in total.

### USAGE:

xConfiguration Security Session MaxTotalSessions: MaxTotalSessions

where

MaxTotalSessions:

*Integer (1..30)*

The maximum number of simultaneous sessions.

Default value:

30

## xConfiguration Security Session ShowLastLogon

*Applies to: All products*

Requires user role: ADMIN

When logging in to the device using SSH you will see the UserId, time and date of the last session that did a successful login.

### USAGE:

xConfiguration Security Session ShowLastLogon: ShowLastLogon

where

ShowLastLogon:

*Off/On*

**On:** Show information about the last session.

**Off:** Do not show information about the last session.

Default value:

*Off*

## xConfiguration Security Xapi WebSocket ApiKey Allowed

*Applies to: All products*

Requires user role: ADMIN

Enable or disable access to the API over web sockets from a remotely paired Room Navigator. A typical use case that requires API access is a persistent web app, for example a custom booking app that wants to control the color of the LEDs on the Room Navigator. If API access is disabled, apps that don't require any communication with the device's API can still run on the Room Navigator.

Note: Persistent web apps are only available on Room Navigators that are paired to the device over the network.

### USAGE:

xConfiguration Security Xapi WebSocket ApiKey Allowed: Allowed

where

Allowed:

*False/True*

**True:** A Room Navigator can interact with the device's API over web sockets, provided that the device is set up to allow interaction with the API over WebSockets in general (NetworkServices HTTP Mode: HTTPS or HTTP+HTTPS and NetworkServices WebSocket: FollowHTTPSservice). Also, the domain of the server hosting the app must be listed in the WebEngine Features Xapi Peripherals AllowedHosts Hosts setting.

**False:** The Room Navigator is not allowed to interact with the device's API over web sockets.

Default value:

*False*

## Sensors configuration

### xConfiguration Sensors Radar Mode

*Applies to: BoardPro BoardProG2*

Requires user role: ADMIN

The device can transmit a radar signal and receive reflections from near-by objects. The device can use these signals to detect if there are people and motion in the room. When using radar, the radar doesn't detect people that are further from the device than 5 meter.

### USAGE:

xConfiguration Sensors Radar Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** The device uses radar signals in display off mode and networked standby to detect motion.

**Off:** The radar sensor is switched off, and the device doesn't transmit radar signals.

Default value:

*Auto*

### xConfiguration Sensors Ultrasound Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The device can use ultrasound signals to detect if there are people and motion in the room. This setting only affects using ultrasound for motion detection. It has no effect on ultrasound emission for proximity pairing.

### USAGE:

xConfiguration Sensors Ultrasound Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** The device uses ultrasound signals to detect motion.

**Off:** Ultrasound is not used for motion detection.

Default value:

*Auto*

## SerialPort configuration

### xConfiguration SerialPort Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Enable/disable the serial port. If the device has more than one serial port, this setting applies to all of them.

This setting is not available for the first generation of boards (Board 55 and Board 70).

#### USAGE:

xConfiguration SerialPort Mode: Mode

where

Mode:

*Off/On*

**Off:** Serial communication is disabled.

**On:** Serial communication is enabled.

Default value:

*On*

### xConfiguration SerialPort BaudRate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Set the baud rate (data transmission rate) for the serial port. A new baud rate takes effect after a device reboot.

Other connection parameters for the serial port are: Data bits: 8; Parity: None; Stop bits: 1; Flow control: None.

This setting does not have any effect on a dedicated maintenance port (micro USB). The maintenance port always uses the default baud rate.

This setting is not available for the first generation of boards (Board 55 and Board 70).

#### USAGE:

xConfiguration SerialPort BaudRate: BaudRate

where

BaudRate:

*115200 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk Board BoardPro BoardProG2]*

*9600/19200/38400/57600/115200 [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Choose a baud rate from the list (bits per second).

Default value:

*115200*

### xConfiguration SerialPort LoginRequired

*Applies to: All products*

Requires user role: ADMIN

Define if login shall be required when connecting to a serial port. If the device has more than one serial port, this setting applies to all of them.

This setting is not available for the first generation of boards (Board 55 and Board 70).

#### USAGE:

xConfiguration SerialPort LoginRequired: LoginRequired

where

LoginRequired:

*Off/On*

**Off:** The user can access the device via the serial port without any login.

**On:** Login is required when connecting to the device via the serial port.

Default value:

*On*



## xConfiguration SerialPort Outbound Mode

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

You can set up your device to control third-party peripherals, such as displays, video switches, projectors, or other, via a serial connection. We refer to this as outbound serial control. Note that outbound serial control is supported on Room Panorama, but not on Room 70 Panorama.

You must connect the peripheral to a USB-A port on the device using a USB-to-Serial dongle. You cannot use the built-in serial port on Codec Pro and Room Panorama, or the micro-USB maintenance port on other devices for outbound control; these ports are reserved for inbound control.

The communication between the device and peripheral is connectionless, meaning we don't establish a persistent serial port connection between them. The connection is first established when issuing the SerialPort PeripheralControl Send command, and the connection is dropped once the command is finished.

These serial connection parameters are not configurable: Data bits (8), Stop bits (1), Flow control (None). Baud rate and parity is set in the SerialPort Outbound Port [1] Baudrate and SerialPort Outbound Port [1] Parity settings, respectively.

### USAGE:

```
xConfiguration SerialPort Outbound Mode: Mode
```

where

Mode:

*Off/On*

**Off:** Serial port outbound control is not enabled.

**On:** Serial port outbound control is enabled. We allow only one outbound serial connection.

Default value:

*Off*

## xConfiguration SerialPort Outbound Port [1] BaudRate

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Set the serial port outbound baud rate (data transmission rate). Refer to the SerialPort Outbound Mode setting for more information about outbound serial control. Outbound serial control is not supported on Room 70 Panorama.

This configuration has no effect on the regular (inbound) serial port / maintenance port.

### USAGE:

```
xConfiguration SerialPort Outbound Port [1] BaudRate: BaudRate
```

where

BaudRate:

*115200/19200/38400/57600/9600*

Choose a baud rate form the list (bits per second).

Default value:

*115200*

## xConfiguration SerialPort Outbound Port [1] Description

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Use this setting to add text that describes what the outbound serial port is intended to be connected to. Refer to the SerialPort Outbound Mode setting for more information about outbound serial control. Outbound serial control is not supported on Room 70 Panorama.

### USAGE:

```
xConfiguration SerialPort Outbound Port [1] Description: "Description"
```

where

Description:

*String (0, 512)*

Text that describes what the port is connected to, for example "Projector".

Default value:

*""*

## xConfiguration SerialPort Outbound Port [1] Parity

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Choose whether to add a parity bit for the serial port outbound data transmission. Refer to the SerialPort Outbound Mode setting for more information about outbound serial control. Outbound serial control is not supported on Room 70 Panorama.

This configuration has no effect on the regular (inbound) serial port / maintenance port.

### USAGE:

xConfiguration SerialPort Outbound Port [1] Parity: Parity

where

Parity:

*Even/None/Odd*

**Even:** Add Even parity.

**Odd:** Add Odd parity.

**None:** Don't add a parity bit.

Default value:

*None*

## SIP configuration

### xConfiguration SIP ANAT

*Applies to: All products*

Requires user role: ADMIN

ANAT (Alternative Network Address Types) enables media negotiation for multiple addresses and address types, as specified in RFC 4091.

### USAGE:

xConfiguration SIP ANAT: ANAT

where

ANAT:

*Off/On*

**Off:** Disable ANAT.

**On:** Enable ANAT.

Default value:

*Off*

### xConfiguration SIP Authentication UserName

*Applies to: All products*

Requires user role: ADMIN

This is the username part of the credentials used to authenticate towards the SIP proxy.

### USAGE:

xConfiguration SIP Authentication UserName: "UserName"

where

UserName:

*String (0, 128)*

A valid username.

Default value:

*""*

## xConfiguration SIP Authentication Password

*Applies to: All products*

Requires user role: ADMIN

This is the password part of the credentials used to authenticate towards the SIP proxy.  
This password is not sent to the Webex cloud, and it cannot be provisioned from the cloud.

### USAGE:

xConfiguration SIP Authentication Password: "Password"

where

Password:

*String (0, 128)*

A valid password.

Default value:

""

## xConfiguration SIP DefaultTransport

*Applies to: All products*

Requires user role: ADMIN

Select the transport protocol to be used over the LAN.

### USAGE:

xConfiguration SIP DefaultTransport: DefaultTransport

where

DefaultTransport:

*Auto/TCP/Tls/UDP*

**TCP:** The device will always use TCP as the default transport method.

**UDP:** The device will always use UDP as the default transport method.

**Tls:** The device will always use TLS as the default transport method. For TLS connections a SIP CA-list can be uploaded to the device. If no such CA-list is available on the device then anonymous Diffie Hellman will be used.

**Auto:** The device will try to connect using transport protocols in the following order:  
TLS, TCP, UDP.

Default value:

*Auto*

## xConfiguration SIP DisplayName

*Applies to: All products*

Requires user role: ADMIN

When configured the incoming call will report the display name instead of the SIP URI.

### USAGE:

xConfiguration SIP DisplayName: "DisplayName"

where

DisplayName:

*String (0, 550)*

The name to be displayed instead of the SIP URI.

Default value:

""

## xConfiguration SIP Ice DefaultCandidate

*Applies to: All products*

Requires user role: ADMIN

The ICE protocol needs some time to reach a conclusion about which media route to use (up to the first 5 seconds of a call). During this period media for the device will be sent to the Default Candidate as defined in this setting.

### USAGE:

xConfiguration SIP Ice DefaultCandidate: DefaultCandidate

where

DefaultCandidate:

*Host/Rflx/Relay*

**Host:** Send media to the device's private IP address.

**Rflx:** Send media to the device's public IP address, as seen by the TURN server.

**Relay:** Send media to the IP address and port allocated on the TURN server.

Default value:

*Host*

## xConfiguration SIP Ice Mode

*Applies to: All products*

Requires user role: ADMIN

ICE (Interactive Connectivity Establishment, RFC 5245) is a NAT traversal solution that the devices can use to discover the optimized media path. Thus the shortest route for audio and video is always secured between the devices. Initially STUN (Session Traversal Utilities for NAT) messages are exchanged when setting up the media path.

Note that STUN also, regardless of the SIP Ice Mode, is used as a keep-alive mechanism to refresh NAT bindings.

### USAGE:

xConfiguration SIP Ice Mode: Mode

where

Mode:

*Auto/Off/On*

**Auto:** ICE is enabled if a TURN server is provided, otherwise ICE is disabled.

**Off:** ICE is disabled.

**On:** ICE is enabled.

Default value:

*Auto*

## xConfiguration SIP ListenPort

*Applies to: All products*

Requires user role: ADMIN

Turn on or off the listening for incoming connections on the SIP TCP/UDP ports. If turned off, the device will only be reachable through a SIP Proxy (CUCM or VCS). As a security measure, SIP ListenPort should be Off when the device is registered to a SIP Proxy.

### USAGE:

xConfiguration SIP ListenPort: ListenPort

where

ListenPort:

*Auto/Off/On*

**Auto:** Listening for incoming connections on the SIP TCP/UDP ports is automatically turned off if the device is registered to a SIP Proxy; otherwise it is turned on.

**Off:** Listening for incoming connections on the SIP TCP/UDP ports is turned off.

**On:** Listening for incoming connections on the SIP TCP/UDP ports is turned on.

Default value:

*Off*

## xConfiguration SIP MinimumTLSVersion

*Applies to: All products*

Requires user role: ADMIN

Set the lowest version of the TLS (Transport Layer Security) protocol that is allowed for SIP.

### USAGE:

xConfiguration SIP MinimumTLSVersion: MinimumTLSVersion

where

MinimumTLSVersion:

*TLSv1.0/TLSv1.1/TLSv1.2/TLSv1.3*

**TLSv1.0:** Support TLS version 1.0 or higher.

**TLSv1.1:** Support TLS version 1.1 or higher.

**TLSv1.2:** Support TLS version 1.2 or higher.

**TLSv1.3:** Support TLS version 1.3 or higher.

Default value:

*TLSv1.0*

## xConfiguration SIP Proxy [n] Address

*Applies to: All products*

Requires user role: ADMIN

The Proxy Address is the manually configured address for the outbound proxy. It is possible to use a fully qualified domain name, or an IP address. The default port is 5060 for TCP and UDP but another one can be provided.

### USAGE:

xConfiguration SIP Proxy [n] Address: "Address"

where

n: Index that identifies the proxy (maximum 4 proxys can be defined).

Range: 1..4

Address:

*String (0, 255)*

A valid IPv4 address, IPv6 address or DNS name.

Default value:

*""*

## xConfiguration SIP TlsVerify

*Applies to: All products*

Requires user role: ADMIN

Before establishing a connection over SIP TLS, the device checks if the certificate of the peer is signed by a trusted Certificate Authority (CA). The CA must be included in the CA list that is manually uploaded to the device using the web interface or API. The list of pre-installed certificates is not used to validate certificates for SIP TLS connections.

Note: The value is set to Off for a device that has been upgraded to CE9.9 (or later) from CE9.8 or earlier software versions, provided that the device has not been factory reset after the upgrade, and that the setting was not explicitly set to On.

Use the SIP MinimumTLSVersion setting to specify which TLS versions are allowed.

### USAGE:

```
xConfiguration SIP TlsVerify: TlsVerify
```

where

TlsVerify:

*Off/On*

**Off:** The device doesn't check the certificate of the peer. The SIP TLS connection is established anyway.

**On:** The device checks if the certificate of the peer can be trusted. If not, the SIP TLS connection is not established.

Default value:

*On*

## xConfiguration SIP Turn Server

*Applies to: All products*

Requires user role: ADMIN

Define the address of the TURN (Traversal Using Relay NAT) server. It is used as a media relay fallback and it is also used to discover the device's own public IP address.

### USAGE:

```
xConfiguration SIP Turn Server: "Server"
```

where

Server:

*String (0, 255)*

The preferred format is DNS SRV record (for example, \_turn.\_udp.<domain>), or it can be a valid IPv4 or IPv6 address.

Default value:

*""*

## xConfiguration SIP Turn UserName

*Applies to: All products*

Requires user role: ADMIN

Define the username needed for accessing the TURN server.

### USAGE:

```
xConfiguration SIP Turn UserName: "UserName"
```

where

UserName:

*String (0, 128)*

A valid username.

Default value:

*""*

## xConfiguration SIP Turn Password

*Applies to: All products*

Requires user role: ADMIN

Define the password needed for accessing the TURN server.

### USAGE:

```
xConfiguration SIP Turn Password: "Password"
```

where

Password:

*String (0, 128)*

A valid password.

Default value:

*""*

## xConfiguration SIP URI

*Applies to: All products*

Requires user role: ADMIN

The SIP URI (Uniform Resource Identifier) is the address that is used to identify the device. The URI is registered and used by the SIP services to route inbound calls to the device. The SIP URI syntax is defined in RFC 3261.

### USAGE:

xConfiguration SIP URI: "URI"

where

URI:

*String (0, 255)*

An address (URI) that is compliant with the SIP URI syntax.

Default value:

""

## Standby configuration

### xConfiguration Standby BootAction

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define the camera position after a restart of the video device.

### USAGE:

xConfiguration Standby BootAction: BootAction

where

BootAction:

*None/DefaultCameraPosition/RestoreCameraPosition*

**None:** No action.

**RestoreCameraPosition:** When the video device restarts, the camera returns to the position that it had before the restart.

**DefaultCameraPosition:** When the video device restarts, the camera moves to the factory default position.

Default value:

*DefaultCameraPosition [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskMini Desk BoardPro BoardProG2]*

*RestoreCameraPosition [DeskPro Board]*

### xConfiguration Standby BrightnessDelay

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting only applies to devices that are set up with Microsoft Teams Rooms.

Set for how long the device must show the Home screen and be inactive before it dims down the screen light. If the device enters halfwake, display off, or a deeper standby state before this timer runs out, this setting has no effect.

### USAGE:

xConfiguration Standby BrightnessDelay: BrightnessDelay

where

BrightnessDelay:

*Integer (1..60)*

The number of minutes before the dimming the light.

Default value:

30

## xConfiguration Standby Control

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define whether the device should go into standby mode automatically. Regardless, you can always manually set the device in standby mode from the UI or using the Standby Ativate command.

### USAGE:

xConfiguration Standby Control: Control

where

Control:

*Off/On* [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk Board BoardPro BoardProG2]

*On* [RoomPanorama/Room70Panorama]

**Off:** The device will not enter standby mode automatically.

**On:** The device will enter standby mode when the Standby Delay has timed out.

Default value:

*On*

## xConfiguration Standby Delay

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define how long (in minutes) the device shall be in idle mode before it goes into standby mode.

Requires the Standby Control to be enabled.

### USAGE:

xConfiguration Standby Delay: Delay

where

Delay:

*Integer (1..480)*

Set the standby delay (minutes).

Default value:

*10* [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk]

*4* [Board BoardPro BoardProG2]

## xConfiguration Standby Level Networked Delay

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define for how long the device must be in the display off standby mode before it goes into networked standby.

If the delay is set to 0, the device goes from halfwake mode, via a few seconds in display off mode, and then to networked standby.

### USAGE:

xConfiguration Standby Level Networked Delay: Delay

where

Delay:

*Integer (0..1440)*

The standby level networked delay in minutes.

Default value:

*2*

## xConfiguration Standby Level Networked Mode

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Disable/enable the automatic transition from display off to networked standby mode.

Networked standby mode is a deeper level of standby which reduces power consumption further than the regular display off standby mode.

The device will enter networked standby after it has been in display off standby mode, for x minutes, as defined in the Standby Level Networked Delay setting.

The Standby Control setting must be set to On for standby mode to be automatically initiated; however, you can trigger it manually with the Standby Activate command.

### USAGE:

xConfiguration Standby Level Networked Mode: Mode

where

Mode:

*Off/On*

**On:** The device will enter networked standby mode when the Standby Level Networked Delay has timed out.

**Off:** The device will not enter networked standby mode.

Default value:

*On*

## xConfiguration Standby Halfwake Mode

*Applies to: All products*

Requires user role: ADMIN

Decide whether the device should enter halfwake mode automatically before going to standby, or skip halfwake mode and go directly to standby. The halfwake mode may show a darkened screen with text or it may be configured to show branding information, including web pages or digital signage.

If enabled in the Standby Control setting and regardless of the Standby Halfwake Mode setting, the device will go into standby after x minutes of inactivity, where x is defined in Standby Delay setting.

### USAGE:

xConfiguration Standby Halfwake Mode: Mode

where

Mode:

*Auto/Manual*

**Auto:** The device goes into halfwake mode after 2 minutes of inactivity. It remains in halfwake mode until it detects activity or until it goes into standby mode.

**Manual:** The automatic halfwake mode is disabled. It can only be triggered manually with xCommand StandbyHalfwake.

Default value:

*Auto*

## xConfiguration Standby Signage Audio

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

By default, a device does not play out audio in digital signage mode even if the web page has audio. You can use this setting to override the default behavior.

### USAGE:

xConfiguration Standby Signage Audio: Audio

where

Audio:

*Off/On*

**Off:** The device does not play out audio with the web page.

**On:** If the web page has audio, the device plays it out. The volume follows the volume setting of the device.

Default value:

*Off*

## xConfiguration Standby Signage InteractionMode

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Decide whether to allow users to interact with a digital signage web page.

The Interactive mode requires that the device has a touch screen (either built-in or connected). A Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

xConfiguration Standby Signage InteractionMode: InteractionMode

where

InteractionMode:

*Interactive/NonInteractive*

**Interactive:** Users can interact with the web page.

**NonInteractive:** Users can't interact with the web page.

Default value:

*NonInteractive*

## xConfiguration Standby Signage Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Content from a URL (a web page) can replace the traditional halfwake background image and information.

This feature is called digital signage. Users can interact with the web page if the device has an interactive screen, for example click on a link or enter text in a form.

The use of digital signage does not prevent the device from entering standby the normal way. Therefore, the Standby Delay setting determines for how long the digital signage is shown before the device goes into standby.

### USAGE:

xConfiguration Standby Signage Mode: Mode

where

Mode:

*Off/On*

**Off:** Digital signage is not enabled on the device.

**On:** Digital signage is enabled and replaces the device's halfwake mode, provided that also the WebEngine Mode setting is On.

Default value:

*Off*



## xConfiguration Standby Signage RefreshInterval

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Trigger a web page to refresh at regular intervals (in seconds).

This is useful for web pages that are not able to refresh themselves.

It is not recommended to set a refresh interval with the interactive mode.

### USAGE:

xConfiguration Standby Signage RefreshInterval: RefreshInterval

where

RefreshInterval:

*Integer (0..1440)*

The number of seconds between each web page refresh. The value of 0 means that the web page is never forced to refresh.

Default value:

0

## xConfiguration Standby Signage Url

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Set the URL of the web page you want to display on the screen (digital signage).

If the length of the URL is 0, the device retains normal halfwake mode.

If the URL fails, the device retains normal halfwake mode and a diagnostics message is issued.

### USAGE:

xConfiguration Standby Signage Url: Url

where

Url:

*String (0, 2048)*

The URL of the web page.

Default value:

""

## xConfiguration Standby StandbyAction

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Define the camera position when going into standby mode.

### USAGE:

xConfiguration Standby StandbyAction: StandbyAction

where

StandbyAction:

*None/PrivacyPosition*

**None:** No action.

**PrivacyPosition:** When the video device enters standby, the camera turns to a sideways position for privacy.

Default value:

*PrivacyPosition*

## xConfiguration Standby WakeupAction

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define the camera position when leaving standby mode.

### USAGE:

xConfiguration Standby WakeupAction: WakeupAction

where

WakeupAction:

*None/RestoreCameraPosition/DefaultCameraPosition*

**None:** No action.

**RestoreCameraPosition:** When the video device leaves standby, the camera returns to the position that it had before entering standby.

**DefaultCameraPosition:** When the video device leaves standby, the camera moves to the factory default position.

Default value:

*RestoreCameraPosition*

## xConfiguration Standby WakeupAtMeetingStart

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether the device shall wake up automatically when a meeting is scheduled to start. If no one joins the meeting or otherwise interacts with the device, it goes to halfwake and then standby a few minutes after the scheduled start.

### USAGE:

xConfiguration Standby WakeupAtMeetingStart: WakeupAtMeetingStart

where

WakeupAtMeetingStart:

*Auto/Off*

**Auto:** The device wakes up before a scheduled meeting is about to start.

**Off:** The device remains in standby, even if a meeting is scheduled to start.

Default value:

*Auto*

## xConfiguration Standby WakeupOnMotionDetection

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When wake up on motion detection is On, the device wakes up and goes into halfwake mode when people enter the room. The feature is based on ultrasound detection, and for select products also radar (Board Pro and Board Pro G2, in the standby modes).

The Audio Ultrasound MaxVolume and Proximity Mode settings has no effect on motion detection.

### USAGE:

xConfiguration Standby WakeupOnMotionDetection: WakeupOnMotionDetection

where

WakeupOnMotionDetection:

*Off/On*

**Off:** The device doesn't wake up from standby when it detects motion.

**On:** The device automatically wakes up from standby when it detects motion, for example when people enter the

Default value:

*On [ RoomKit RoomKitMini RoomBar RoomBarPro Room55 Room70/Room55D Room70G2  
RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*Off [ RoomKitEQX CodecEQ CodecPlus CodecPro ]*

## SystemUnit configuration

### xConfiguration SystemUnit Name

*Applies to: All products*

Requires user role: ADMIN

Define the device name. The device name will be sent as the hostname in a DHCP request and when the device is acting as an SNMP Agent.

### USAGE:

xConfiguration SystemUnit Name: "Name"

where

Name:

*String (0, 50)*

Define the device name.

Default value:

*""*

### xConfiguration SystemUnit BroadcastName

*Applies to: All products*

Requires user role: ADMIN

A broadcast name is the name that other devices, such as laptops and mobile phones, will see in their scan lists for services such as Airplay, Miracast, and Bluetooth. You can specify a specific broadcast name with this setting. If you don't specifically set a broadcast name here, the scan lists will include the Webex DisplayName if the device is registered to the Webex cloud service, and the SystemUnit Name if registered to an on-premises service. If neither of these names are set, the product type (id) will be displayed.

We recommend you not include PII (personally identifiable information) in a broadcast name.

### USAGE:

xConfiguration SystemUnit BroadcastName: "BroadcastName"

where

BroadcastName:

*String (0, 256)*

The broadcast name that will be shown in other devices' scan lists.

Default value:

*""*

## xConfiguration SystemUnit CrashReporting Mode

*Applies to: All products*

Requires user role: ADMIN

If the device crashes, the device can automatically send logs to the Cisco Automatic Crash Report tool (ACR) for analyses.

For devices that are registered to the Webex cloud service or linked to Webex Edge for devices, automatic crash reporting is available for all devices. PII information is removed or anonymised before sending the logs to the Webex cloud.

For devices that are registered to an on-premises service such as CUCM, automatic crash reporting is only for Cisco-internal devices. The crash report is sent to the URL given in the SystemUnit CrashReporting URL setting.

### USAGE:

```
xConfiguration SystemUnit CrashReporting Mode: Mode
```

where

Mode:

*Off/On*

**Off:** No logs will be sent to the ACR tool.

**On:** The logs will automatically be sent to the ACR tool.

Default value:

*On*

## xConfiguration SystemUnit CrashReporting URL

*Applies to: All products*

Requires user role: ADMIN

If the device crashes, the device can automatically send logs to the Cisco Automatic Crash Report tool (ACR) for analyses. Refer to the SystemUnit CrashReporting Mode setting for more details.

### USAGE:

```
xConfiguration SystemUnit CrashReporting URL: "URL"
```

where

URL:

*String (0, 255)*

The URL to the Cisco Automatic Crash Report tool (ACR).

Default value:

*"acr.cisco.com"*

## xConfiguration SystemUnit CustomDeviceId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The SystemUnit CustomDeviceId provides a place for you to store custom information about a unit. This can be useful, for example, in aiding to track devices in a provisioning setup.

### USAGE:

```
xConfiguration SystemUnit CustomDeviceId: "CustomDeviceId"
```

where

CustomDeviceId:

*String (0, 255)*

Default value:

*""*

## xConfiguration SystemUnit Extension MouseSupport

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

You may need to interact with the Microsoft Teams UI, for example to select which Microsoft cloud to onboard to when you are at the Microsoft login screen. In such a case, you can connect a mouse to the USB-A port of the device. You can only use this mouse to interact with the Microsoft Teams UI; not with the regular RoomOS UI.

Connecting a separate keyboard on USB is not supported.

### USAGE:

```
xConfiguration SystemUnit Extension MouseSupport: MouseSupport
```

where

MouseSupport:

*Disabled/Enabled*

**Disabled:** The device doesn't have mouse support.

**Enabled:** You can interact with the Microsoft Teams UI using a USB mouse.

Default value:

*Enabled*

## xConfiguration SystemUnit Hardware USBC[1] Mode

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskMini Desk*

Requires user role: ADMIN

Use this setting if you want to instruct the device to only use the USB2.0 protocol on the USB-C port, even if it also supports the newer USB 3.0 version.

It may be necessary for certain laptops when using our device as a web camera.

You must reboot the device for this setting to take effect.

### USAGE:

`xConfiguration SystemUnit Hardware USBC[1] Mode: Mode`

where

Mode:

*USB2/USB3*

**USB2:** Offer only USB 2.0 for USB negotiation.

**USB3:** Offer standard USB negotiation, that is, use USB3.0 if available, otherwise USB 2.0.

Default value:

*USB3*

## xConfiguration SystemUnit SoftwareUpgrade Provider

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

For Cisco devices for Microsoft Teams Rooms that are registered to a Cisco backend service (like Webex or Cisco Unified CM), you can decide from which service to get automatic software upgrades.

The RoomOS software will follow this setting, but please note that the Microsoft Teams application can always be upgraded from Teams Admin Center.

### USAGE:

`xConfiguration SystemUnit SoftwareUpgrade Provider: Provider`

where

Provider:

*Cisco/Microsoft*

**Microsoft:** Get software upgrades from Microsoft.

**Cisco:** Get software upgrades from the Cisco service.

Default value:

*Cisco*

## ThousandEyes configuration

### xConfiguration ThousandEyes ConnectionString

*Applies to: All products*

Requires user role: ADMIN

This setting applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

The ThousandEyes agent is part of the RoomOS software, but it must be enabled from Control Hub. The agent requires a Connection String parameter, which acts as a token that accurately identifies the account group where the agent should belong. You must obtain the connection string from the ThousandEyes admin for your organization.

The string is required for the ThousandEyes agent running on the device to be able to register with the ThousandEyes cloud service.

### USAGE:

`xConfiguration ThousandEyes ConnectionString: "ConnectionString"`

where

ConnectionString:

*String (0, 512)*

The account group connection string.

Default value:

*""*

# Time configuration

## xConfiguration Time DateFormat

*Applies to: All products*

Requires user role: ADMIN, USER

Define the date format.

### USAGE:

xConfiguration Time DateFormat: DateFormat

where

DateFormat:

*DD\_MM\_YY/MM\_DD\_YYYY\_MM\_DD*

*DD\_MM\_YY*: The date January 30th 2010 will be displayed: 30.01.10

*MM\_DD\_YY*: The date January 30th 2010 will be displayed: 01.30.10

*YY\_MM\_DD*: The date January 30th 2010 will be displayed: 10.01.30

Default value:

*DD\_MM\_YY*

## xConfiguration Time TimeFormat

*Applies to: All products*

Requires user role: ADMIN, USER

Define the time format.

### USAGE:

xConfiguration Time TimeFormat: TimeFormat

where

TimeFormat:

*24H/12H*

*24H*: Set the time format to 24 hours.

*12H*: Set the time format to 12 hours (AM/PM).

Default value:

*24H*

## xConfiguration Time Zone

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Define the time zone for the geographical location of the device. The information in the value space is from the tz database, also called the IANA Time Zone Database.

### USAGE:

xConfiguration Time Zone: Zone

where

Zone:

*Africa/Abidjan, Africa/Accra, Africa/Addis\_Ababa, Africa/Algiers, Africa/Asmara, Africa/Asmera, Africa/Bamako, Africa/Bangui, Africa/Banjul, Africa/Bissau, Africa/Blantyre, Africa/Brazzaville, Africa/Bujumbura, Africa/Cairo, Africa/Casablanca, Africa/Ceuta, Africa/Conakry, Africa/Dakar, Africa/Dar\_es\_Salaam, Africa/Djibouti, Africa/Douala, Africa/El\_Aaiun, Africa/Freetown, Africa/Gaborone, Africa/Harare, Africa/Johannesburg, Africa/Juba, Africa/Kampala, Africa/Khartoum, Africa/Kigali, Africa/Kinshasa, Africa/Lagos, Africa/Libreville, Africa/Lome, Africa/Luanda, Africa/Lubumbashi, Africa/Lusaka, Africa/Malabo, Africa/Maputo, Africa/Maseru, Africa/Mbabane, Africa/Mogadishu, Africa/Monrovia, Africa/Nairobi, Africa/Ndjamena, Africa/Niamey, Africa/Nouakchott, Africa/Ouagadougou, Africa/Porto-Novo, Africa/Sao\_Tome, Africa/Timbuktu, Africa/Tripoli, Africa/Tunis, Africa/Windhoek, America/Adak, America/Anchorage, America/Anguilla, America/Antigua, America/Araguaina, America/Argentina/Buenos\_Aires, America/Argentina/Catamarca, America/Argentina/ComodRivadavia, America/Argentina/Cordoba, America/Argentina/Jujuy, America/Argentina/La\_Rioja, America/Argentina/Mendoza, America/Argentina/Rio\_Gallegos, America/Argentina/Salta, America/Argentina/San\_Juan, America/Argentina/San\_Luis, America/Argentina/Tucuman, America/Argentina/Ushuaia, America/Aruba, America/Asuncion, America/Atikokan, America/Atka, America/Bahia, America/Bahia\_Banderas, America/Barbados, America/Belem, America/Belize, America/Blanc-Sablon, America/Boa\_Vista, America/Bogota, America/Boise, America/Buenos\_Aires, America/Cambridge\_Bay, America/Campo\_Grande, America/Cancun, America/Caracas, America/Catamarca, America/Cayenne, America/Cayman, America/Chicago, America/Chihuahua, America/Ciudad\_Juarez, America/Coral\_Harbour, America/Cordoba, America/Costa\_Rica, America/Creston, America/Cuiaba, America/Curacao, America/Danmarkshavn, America/Dawson, America/Dawson\_Creek, America/Denver, America/Detroit, America/Dominica, America/Edmonton, America/Eirunepe, America/El\_Salvador, America/Ensenada, America/Fort\_Nelson, America/Fort\_Wayne, America/Fortaleza, America/Glace\_Bay, America/Godthab, America/Goose\_Bay, America/Grand\_Turk, America/Grenada, America/Guadeloupe, America/Guatemala, America/Guayaquil, America/Guyana, America/Halifax, America/Havana, America/Hermosillo, America/Indiana/Indianapolis, America/Indiana/Knox, America/Indiana/Marengo, America/Indiana/Petersburg, America/Indiana/Tell\_City, America/Indiana/Vevay, America/Indiana/Vincennes, America/Indiana/Winamac, America/Indianapolis, America/Inuvik, America/Iqaluit, America/Jamaica, America/Jujuy, America/Juneau, America/Kentucky/Louisville, America/Kentucky/Monticello, America/Knox\_IN, America/Kralendijk, America/La\_Paz, America/Lima, America/Los\_Angeles, America/Louisville, America/Lower\_Princes, America/Maceio, America/Managua, America/*

Manaus, America/Marigot, America/Martinique, America/Matamoros, America/Mazatlan, America/Mendoza, America/Menominee, America/Merida, America/Metlakatla, America/Mexico\_City, America/Miquelon, America/Moncton, America/Monterrey, America/Montevideo, America/Montreal, America/Montserrat, America/Nassau, America/New\_York, America/Nipigon, America/Nome, America/Noronha, America/North\_Dakota/Beulah, America/North\_Dakota/Center, America/North\_Dakota/New\_Salem, America/Nuuk, America/Ojinaga, America/Panama, America/Pangnirtung, America/Paramaribo, America/Phoenix, America/Port-au-Prince, America/Port\_of\_Spain, America/Porto\_Acre, America/Porto\_Velho, America/Puerto\_Rico, America/Punta\_Arenas, America/Rainy\_River, America/Rankin\_Inlet, America/Recife, America/Regina, America/Resolute, America/Rio\_Branco, America/Rosario, America/Santa\_Isabel, America/Santarem, America/Santiago, America/Santo\_Domingo, America/Sao\_Paulo, America/Scoresbysund, America/Shiprock, America/Sitka, America/St\_Barthlemy, America/St\_Johns, America/St\_Kitts, America/St\_Lucia, America/St\_Thomas, America/St\_Vincent, America/Swift\_Current, America/Tegucigalpa, America/Thule, America/Thunder\_Bay, America/Tijuana, America/Toronto, America/Tortola, America/Vancouver, America/Virgin, America/Whitehorse, America/Winnipeg, America/Yakutat, America/Yellowknife, Antarctica/Casey, Antarctica/Davis, Antarctica/DumontDURville, Antarctica/Macquarie, Antarctica/Mawson, Antarctica/McMurdo, Antarctica/Palmer, Antarctica/Rothera, Antarctica/South\_Pole, Antarctica/Syowa, Antarctica/Troll, Antarctica/Vostok, Arctic/Longyearbyen, Asia/Aden, Asia/Almaty, Asia/Amman, Asia/Anadyr, Asia/Aqtau, Asia/Aqtobe, Asia/Ashgabat, Asia/Ashkhabad, Asia/Atyrau, Asia/Baghdad, Asia/Bahrain, Asia/Baku, Asia/Bangkok, Asia/Barnaul, Asia/Beirut, Asia/Bishkek, Asia/Brunei, Asia/Calcutta, Asia/Chita, Asia/Choibalsan, Asia/Chongqing, Asia/Chungking, Asia/Colombo, Asia/Dacca, Asia/Damascus, Asia/Dhaka, Asia/Dili, Asia/Dubai, Asia/Dushanbe, Asia/Famagusta, Asia/Gaza, Asia/Harbin, Asia/Hebron, Asia/Ho\_Chi\_Minh, Asia/Hong\_Kong, Asia/Hovd, Asia/Irkutsk, Asia/Istanbul, Asia/Jakarta, Asia/Jayapura, Asia/Jerusalem, Asia/Kabul, Asia/Kamchatka, Asia/Karachi, Asia/Kashgar, Asia/Kathmandu, Asia/Katmandu, Asia/Khandyga, Asia/Kolkata, Asia/Krasnoyarsk, Asia/Kuala\_Lumpur, Asia/Kuching, Asia/Kuwait, Asia/Macao, Asia/Macau, Asia/Magadan, Asia/Makassar, Asia/Manila, Asia/Muscat, Asia/Nicosia, Asia/Novokuznetsk, Asia/Novosibirsk, Asia/Omsk, Asia/Oral, Asia/Phnom\_Penh, Asia/Pontianak, Asia/Pyongyang, Asia/Qatar, Asia/Qostanay, Asia/Qyzylorda, Asia/Rangoon, Asia/Riyadh, Asia/Saigon, Asia/Sakhalin, Asia/Samarkand, Asia/Seoul, Asia/Shanghai, Asia/Singapore, Asia/Srednekolymsk, Asia/Taipei, Asia/Tashkent, Asia/Tbilisi, Asia/Tehran, Asia/Tel\_Aviv, Asia/Thimbu, Asia/Thimphu, Asia/Tokyo, Asia/Tomsk, Asia/Ujung\_Pandang, Asia/Ulaanbaatar, Asia/Ulan\_Bator, Asia/Urumqi, Asia/Ust-Nera, Asia/Vientiane, Asia/Vladivostok, Asia/Yakutsk, Asia/Yangon, Asia/Yekaterinburg, Asia/Yerevan, Atlantic/Azores, Atlantic/Bermuda, Atlantic/Canary, Atlantic/Cape\_Verde, Atlantic/Faeroe, Atlantic/Faroe, Atlantic/Jan\_Mayen, Atlantic/Madeira, Atlantic/Reykjavik, Atlantic/South\_Georgia, Atlantic/St\_Helena, Atlantic/Stanley, Australia/ACT, Australia/Adelaide, Australia/Brisbane, Australia/Broken\_Hill, Australia/Canberra, Australia/Currie, Australia/Darwin, Australia/Eucla, Australia/Hobart, Australia/LHI, Australia/Lindeman, Australia/Lord\_Howe, Australia/Melbourne, Australia/NSW, Australia/North, Australia/Perth, Australia/Queensland, Australia/South, Australia/Sydney, Australia/Tasmania, Australia/Victoria, Australia/West, Australia/Yancowinna, Brazil/Acre, Brazil/DeNoronha, Brazil/East, Brazil/West, CET, CST6CDT, Canada/Atlantic, Canada/Central, Canada/Eastern, Canada/Mountain, Canada/Newfoundland, Canada/Pacific, Canada/Saskatchewan, Canada/Yukon, Chile/Continental, Chile/

EasterIsland, Cuba, EET, EST, EST5EDT, Egypt, Eire, Etc/GMT, Etc/GMT+0, Etc/GMT+1, Etc/GMT+10, Etc/GMT+11, Etc/GMT+12, Etc/GMT+2, Etc/GMT+3, Etc/GMT+4, Etc/GMT+5, Etc/GMT+6, Etc/GMT+7, Etc/GMT+8, Etc/GMT+9, Etc/GMT-0, Etc/GMT-1, Etc/GMT-10, Etc/GMT-11, Etc/GMT-12, Etc/GMT-13, Etc/GMT-14, Etc/GMT-2, Etc/GMT-3, Etc/GMT-4, Etc/GMT-5, Etc/GMT-6, Etc/GMT-7, Etc/GMT-8, Etc/GMT-9, Etc/GMT0, Etc/Greenwich, Etc/UCT, Etc/UTC, Etc/Universal, Etc/Zulu, Europe/Amsterdam, Europe/Andorra, Europe/Astrakhan, Europe/Athens, Europe/Belfast, Europe/Belgrade, Europe/Berlin, Europe/Bratislava, Europe/Brussels, Europe/Bucharest, Europe/Budapest, Europe/Busingen, Europe/Chisinau, Europe/Copenhagen, Europe/Dublin, Europe/Gibraltar, Europe/Guernsey, Europe/Helsinki, Europe/Isle\_of\_Man, Europe/Istanbul, Europe/Jersey, Europe/Kaliningrad, Europe/Kiev, Europe/Kirov, Europe/Kyiv, Europe/Lisbon, Europe/Ljubljana, Europe/London, Europe/Luxembourg, Europe/Madrid, Europe/Malta, Europe/Mariehamn, Europe/Minsk, Europe/Monaco, Europe/Moscow, Europe/Nicosia, Europe/Oslo, Europe/Paris, Europe/Podgorica, Europe/Prague, Europe/Riga, Europe/Rome, Europe/Samara, Europe/San\_Marino, Europe/Sarajevo, Europe/Saratov, Europe/Simferopol, Europe/Skopje, Europe/Sofia, Europe/Stockholm, Europe/Tallinn, Europe/Tirane, Europe/Tiraspol, Europe/Ulyanovsk, Europe/Uzhgorod, Europe/Vaduz, Europe/Vatican, Europe/Vienna, Europe/Vilnius, Europe/Volgograd, Europe/Warsaw, Europe/Zagreb, Europe/Zaporozhye, Europe/Zurich, GB, GB-Eire, GMT, GMT+0, GMT-0, GMT0, Greenwich, HST, Hongkong, Iceland, Indian/Antananarivo, Indian/Chagos, Indian/Christmas, Indian/Cocos, Indian/Comoro, Indian/Kerguelen, Indian/Mahe, Indian/Maldives, Indian/Mauritius, Indian/Mayotte, Indian/Reunion, Iran, Israel, Jamaica, Japan, Kwajalein, Libya, MET, MST, MST7MDT, Mexico/BajaNorte, Mexico/BajaSur, Mexico/General, NZ, NZ-CHAT, Navajo, PRC, PST8PDT, Pacific/Apia, Pacific/Auckland, Pacific/Bougainville, Pacific/Chatham, Pacific/Chuuk, Pacific/Easter, Pacific/Efate, Pacific/Enderbury, Pacific/Fakaofu, Pacific/Fiji, Pacific/Funafuti, Pacific/Galapagos, Pacific/Gambier, Pacific/Guadalcanal, Pacific/Guam, Pacific/Honolulu, Pacific/Johnston, Pacific/Kanton, Pacific/Kiritimati, Pacific/Kosrae, Pacific/Kwajalein, Pacific/Majuro, Pacific/Marquesas, Pacific/Midway, Pacific/Nauru, Pacific/Niue, Pacific/Norfolk, Pacific/Noumea, Pacific/Pago\_Pago, Pacific/Palau, Pacific/Pitcairn, Pacific/Pohnpei, Pacific/Ponape, Pacific/Port\_Moresby, Pacific/Rarotonga, Pacific/Saipan, Pacific/Samoa, Pacific/Tahiti, Pacific/Tarawa, Pacific/Tongatapu, Pacific/Truk, Pacific/Wake, Pacific/Wallis, Pacific/Yap, Poland, Portugal, ROC, ROK, Singapore, Turkey, UCT, US/Alaska, US/Aleutian, US/Arizona, US/Central, US/East-Indiana, US/Eastern, US/Hawaii, US/Indiana-Starke, US/Michigan, US/Mountain, US/Pacific, US/Samoa, UTC, Universal, W-SU, WET, Zulu

Select a time zone from the list.

Default value:

Etc/UTC

## xConfiguration Time OfficeHours Enabled

*Applies to: All products*

Requires user role: ADMIN

Setting the office hours on a device will allow you to switch off always-on features like signage, outside of ordinary office hours. This prevents screens from being active all the time, and thereby increases their lifetime. Most screens are not certified for all day use, seven days a week.

### USAGE:

xConfiguration Time OfficeHours Enabled: Enabled

where

Enabled:

*False/True*

**False:** The device isn't set up to support Office hours. Therefore, the other OfficeHours settings have no effect.

**True:** The device supports Office hours. The other OfficeHours settings define when office hours are, and device standby behavior outside of office hours.

Default value:

*True*

## xConfiguration Time OfficeHours OutsideOfficeHours Standby AutoWakeup

*Applies to: All products*

Requires user role: ADMIN

Set how the device responds when it detects motion in the room outside of office hours. Regardless of this setting, the device always wakes up when someone starts using it.

### USAGE:

xConfiguration Time OfficeHours OutsideOfficeHours Standby AutoWakeup:

AutoWakeup

where

AutoWakeup:

*Disabled/Enabled*

**Disabled:** The device will stay in standby even if it detects motion.

**Enabled:** The device will wake up as usual when it detects motion.

Default value:

*Disabled*

## xConfiguration Time OfficeHours OutsideOfficeHours Standby Delay

*Applies to: All products*

Requires user role: ADMIN

Specify how long the device stays in idle mode before entering display off mode, outside office hours.

### USAGE:

xConfiguration Time OfficeHours OutsideOfficeHours Standby Delay: Delay

where

Delay:

*Integer (1..30)*

The number of minutes the device stays in idle mode before entering display off mode.

Default value:

*5*

## xConfiguration Time OfficeHours WorkDay End

*Applies to: All products*

Requires user role: ADMIN, USER

Set the time when the ordinary office hours end.

### USAGE:

xConfiguration Time OfficeHours WorkDay End: End

where

End:

*String (5, 5)*

The time of day in "hh:mm" format, where hh = two-digit hour, 00 through 23 (am/pm is not supported) and mm = two-digit minute, 00 through 59.

Default value:

*"19:00"*

## xConfiguration Time OfficeHours WorkDay Start

*Applies to: All products*

Requires user role: ADMIN, USER

Set the time when the ordinary office hours start.

### USAGE:

xConfiguration Time OfficeHours WorkDay Start: "Start"

where

Start:

*String (5, 5)*

The time of day in "hh:mm" format, where hh = two-digit hour, 00 through 23 (am/pm is not supported) and mm = two-digit minute, 00 through 59.

Default value:

*"07:00"*

## xConfiguration Time OfficeHours WorkWeek Monday

*Applies to: All products*

Requires user role: ADMIN

Set whether Monday is included in the working week.

### USAGE:

xConfiguration Time OfficeHours WorkWeek Monday: Monday

where

Monday:

*False/True*

**False:** Monday is not included in the working week.

**True:** Monday is included in the working week.

Default value:

*True*

## xConfiguration Time OfficeHours WorkWeek Tuesday

*Applies to: All products*

Requires user role: ADMIN

Set whether Tuesday is included in the working week.

### USAGE:

xConfiguration Time OfficeHours WorkWeek Tuesday: Tuesday

where

Tuesday:

*False/True*

**False:** Tuesday is not included in the working week.

**True:** Tuesday is included in the working week.

Default value:

*True*

## xConfiguration Time OfficeHours WorkWeek Wednesday

*Applies to: All products*

Requires user role: ADMIN

Set whether Wednesday is included in the working week.

### USAGE:

xConfiguration Time OfficeHours WorkWeek Wednesday: Wednesday

where

Wednesday:

*False/True*

**False:** Wednesday is not included in the working week.

**True:** Wednesday is included in the working week.

Default value:

*True*



### xConfiguration Time OfficeHours WorkWeek Thursday

*Applies to: All products*

Requires user role: ADMIN

Set whether Thursday is included in the working week.

#### USAGE:

xConfiguration Time OfficeHours WorkWeek Thursday: Thursday

where

Thursday:

*False/True*

**False:** Thursday is not included in the working week.

**True:** Thursday is included in the working week.

Default value:

*True*

### xConfiguration Time OfficeHours WorkWeek Friday

*Applies to: All products*

Requires user role: ADMIN

Set whether Friday is included in the working week.

#### USAGE:

xConfiguration Time OfficeHours WorkWeek Friday: Friday

where

Friday:

*False/True*

**False:** Friday is not included in the working week.

**True:** Friday is included in the working week.

Default value:

*True*

### xConfiguration Time OfficeHours WorkWeek Saturday

*Applies to: All products*

Requires user role: ADMIN

Set whether Saturday is included in the working week.

#### USAGE:

xConfiguration Time OfficeHours WorkWeek Saturday: Saturday

where

Saturday:

*False/True*

**False:** Saturday is not included in the working week.

**True:** Saturday is included in the working week.

Default value:

*False*

### xConfiguration Time OfficeHours WorkWeek Sunday

*Applies to: All products*

Requires user role: ADMIN

Set whether Sunday is included in the working week.

#### USAGE:

xConfiguration Time OfficeHours WorkWeek Sunday: Sunday

where

Sunday:

*False/True*

**False:** Sunday is not included in the working week.

**True:** Sunday is included in the working week.

Default value:

*False*

## UserInterface configuration

### xConfiguration UserInterface Accessibility IncomingCallNotification

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

You can enable an incoming call notification with amplified visuals. The screen and touch controller will flash red/white approximately once every second (1.75 Hz) to make it easier for hearing impaired users to notice an incoming call. If the device is already in a call the screen will not flash as this will disturb the on-going call, instead you will get a normal notification on screen and touch panel.

#### USAGE:

```
xConfiguration UserInterface Accessibility IncomingCallNotification:
  IncomingCallNotification
```

where

```
  IncomingCallNotification:
```

```
    AmplifiedVisuals/Default
```

**AmplifiedVisuals:** Enable the amplified visuals on screen and touch panel when the device receives a call.

**Default:** Enable the default behavior with a notification on screen and touch panel.

Default value:

```
  Default
```

### xConfiguration UserInterface Assistant Mode

*Applies to: All products*

Requires user role: ADMIN

Webex Assistant allows you to control the device by using voice commands. Webex Assistant is a cloud service, so the device must either be registered to the Webex cloud service or registered to an on-premises service and linked to Webex Edge for Devices.

Use this setting to enable or disable the Webex Assistant on the device.

#### USAGE:

```
xConfiguration UserInterface Assistant Mode: Mode
```

where

```
  Mode:
```

```
    Off/On
```

**Off:** Webex Assistant is switched off.

**On:** Webex Assistant can be used if it is supported by the infrastructure.

Default value:

```
  On
```

### xConfiguration UserInterface Assistant ProactiveMeetingJoin

*Applies to: All products*

Requires user role: ADMIN

Proactive Join is a feature that is offered by Webex Assistant. When Proactive Join is enabled and someone is discovered in the meeting room just before the start of an OBTP-meeting, the device will ask if they want to join the meeting that is about to start.

Use this setting to enable or disable the Proactive Join feature on the device.

#### USAGE:

```
xConfiguration UserInterface Assistant ProactiveMeetingJoin:
  ProactiveMeetingJoin
```

where

```
  ProactiveMeetingJoin:
```

```
    False/True
```

**False:** The Proactive Join feature is switched off.

**True:** The Proactive Join feature can be used if Webex Assistant is active.

Default value:

```
  True
```

### xConfiguration UserInterface Bookings AdhocBooking DefaultTitle

*Applies to: All products*

Requires user role: ADMIN

The meeting title for ad hoc bookings. This title shows up on the Room Navigator outside the meeting room.

#### USAGE:

```
xConfiguration UserInterface Bookings AdhocBooking DefaultTitle:
  DefaultTitle
```

where

```
  DefaultTitle:
```

```
    String (0, 32)
```

The default title for ad hoc bookings.

Default value:

```
  "Ad hoc meeting"
```

## xConfiguration UserInterface Bookings Visibility EarlyJoin

*Applies to: All products*

Requires user role: ADMIN

The Join button in the device's Calendar is available for any meeting that is scheduled for that day, even if it's not yet the scheduled time. If early joining isn't enabled, the Join button appears 5 minutes before the scheduled time. This does not affect the meeting reminder pop up, only the calendar list view.

### USAGE:

xConfiguration UserInterface Bookings Visibility EarlyJoin: EarlyJoin

where

EarlyJoin:

*Auto/Hidden*

**Auto:** Early join is enabled.

**Hidden:** Early join is not enabled, and the Join button appears 5 minutes before the scheduled meeting time.

Default value:

*Hidden*

## xConfiguration UserInterface Bookings Visibility JoinedParticipants Avatars

*Applies to: All products*

Requires user role: ADMIN

Determine whether or not the avatars of participants who have joined a meeting are displayed on the user interface.

### USAGE:

xConfiguration UserInterface Bookings Visibility JoinedParticipants Avatars:

Avatars

where

Avatars:

*Auto/Hidden*

**Auto:** The avatars of the participants are visible.

**Hidden:** The avatars of the participants are not visible.

Default value:

*Auto*

## xConfiguration UserInterface Bookings Visibility MeetingReminder

*Applies to: All products*

Requires user role: ADMIN

Display a meeting reminder on screen before the meeting starts.

### USAGE:

xConfiguration UserInterface Bookings Visibility MeetingReminder:

MeetingReminder

where

MeetingReminder:

*All/ControllerOnly*

**All:** The reminder is displayed on both the device's screen and touch controller.

**ControllerOnly:** The reminder is displayed only on the touch controller.

Default value:

*ControllerOnly*

## xConfiguration UserInterface Bookings Visibility Organizer

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Display the organizer of the meeting on the device's screen.

### USAGE:

xConfiguration UserInterface Bookings Visibility Organizer: Organizer

where

Organizer:

*Auto/Hidden*

**Auto:** The name of the organizer of the meeting is displayed on the device's screen.

**Hidden:** The name of the organizer of the meeting is hidden.

Default value:

*Auto*

## xConfiguration UserInterface Bookings Visibility TentativeMeetings

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

In general, the list of upcoming meetings is shown on the screen and touch controller. Set whether to include tentative meetings in the list.

### USAGE:

```
xConfiguration UserInterface Bookings Visibility TentativeMeetings:  
TentativeMeetings
```

where

```
TentativeMeetings:
```

*Auto/Hidden*

**Auto:** Tentative meetings are included in the list.

**Hidden:** Tentative meetings are not in the list.

Default value:

*Auto*

## xConfiguration UserInterface Bookings Visibility Title

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Sets the meeting details to private. "Scheduled meeting" will be displayed as the title of the meeting.

### USAGE:

```
xConfiguration UserInterface Bookings Visibility Title: Title
```

where

```
Title:
```

*Auto/Hidden*

**Auto:** The title of the meeting is public and will be displayed on the user interface.

**Hidden:** The title of the meeting will be hidden and "Scheduled meeting" will be displayed on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Branding AwakeBranding Colors

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

If the device is set up with branding customizations, this setting affects the colors of the logo that is shown when the device is awake. You can choose whether you want to show the logo in full color, or reduce the opacity of the logo so that it blends in more naturally with the background and other elements on the screen.

### USAGE:

```
xConfiguration UserInterface Branding AwakeBranding Colors: Colors
```

where

```
Colors:
```

*Auto/Native*

**Auto:** The opacity of the logo is reduced.

**Native:** The logo has full colors.

Default value:

*Auto*

## xConfiguration UserInterface CameraControl Presets Mode

*Applies to: All products*

Requires user role: ADMIN

Choose whether to allow users to add, modify, and delete camera presets. If allowed, they can edit presets from the Manual camera controls panel in the user interface.

### USAGE:

```
xConfiguration UserInterface CameraControl Presets Mode: Mode
```

where

```
Mode:
```

*Auto/Locked*

**Auto:** Users can add, modify, and delete camera presets.

**Locked:** The camera presets are locked. Users can use the presets, but not add, delete, or modify them.

Default value:

*Auto*

## xConfiguration UserInterface ContactInfo Type

*Applies to: All products*

Requires user role: ADMIN

Choose which type of contact information to show on the user interface.

### USAGE:

xConfiguration UserInterface ContactInfo Type: Type

where

Type:

*Auto/DisplayName/E164Alias/H323Id/IPv4/IPv6/None/SipUri/SystemName/ WebexDisplayName*

**Auto:** Show the address which another device should dial to reach this video device. The address depends on the default call protocol and device registration.

**None:** Do not show any contact information.

**IPv4:** Show the device's IPv4 address.

**IPv6:** Show the device's IPv6 address.

**H323Id:** Show the device's H.323 ID (refer to the H323 H323Alias ID setting).

**E164Alias:** Show the device's H.323 E164 Alias as contact information (refer to the H323 H323Alias E164 setting).

**SipUri:** Show the device's SIP URI (refer to the SIP URI setting).

**SystemName:** Show the device's name (refer to the SystemUnit Name setting).

**DisplayName:** Show the device's display name (refer to the SIP DisplayName setting).

**WebexDisplayName:** The name of a user or device as it appears within the Cisco Webex cloud service.

Default value:

*Auto*

## xConfiguration UserInterface CustomMessage

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

A custom message can be displayed, in the lower left side of the screen, in awake mode.

### USAGE:

xConfiguration UserInterface CustomMessage: "CustomMessage"

where

CustomMessage:

*String (0, 256)*

Add a custom message. Add an empty string to remove a custom message.

Default value:

*""*

## xConfiguration UserInterface InstantMeeting Invite

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Decide how the add participant (invite people) capability will be shown on the device when starting an instant meeting.

### USAGE:

xConfiguration UserInterface InstantMeeting Invite: Invite

where

Invite:

*ManualAdd/Promote*

**Promote:** The add/invite capability shows up on the screen automatically when you start the meeting.

**ManualAdd:** The add/invite capability doesn't show up on the screen automatically. You must use the usual Add button on the UI.

Default value:

*Promote*

## xConfiguration UserInterface CustomWallpaperOverlay

*Applies to: All products*

Requires user role: ADMIN

When using a custom wallpaper you can choose to apply a transparent black overlay to soften the background image and give more focus to the UI elements.

### USAGE:

xConfiguration UserInterface CustomWallpaperOverlay: CustomWallpaperOverlay

where

CustomWallpaperOverlay:

*Off/On*

**Off:** Don't apply a transparent black overlay.

**On:** Apply a transparent black overlay.

Default value:

*On*

## xConfiguration UserInterface Diagnostics Notifications

*Applies to: All products*

Requires user role: ADMIN

Hide or show diagnostics notifications on the user interface.

### USAGE:

xConfiguration UserInterface Diagnostics Notifications: Notifications

where

Notifications:

*Auto/Hidden*

**Auto:** The diagnostics notifications will be displayed on the user interface.

**Hidden:** The diagnostics notifications will not be displayed on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Calendar Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the calendar widget on the user interface.

### USAGE:

xConfiguration UserInterface Features Calendar Start: Start

where

Start:

*Auto/Hidden*

**Auto:** Show the calendar widget on the user interface.

**Hidden:** Don't show the calendar widget on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call AudioMute

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the default "Mute/Unmute" button on the user interface.

### USAGE:

xConfiguration UserInterface Features Call AudioMute: AudioMute

where

AudioMute:

*Auto/Hidden*

**Auto:** Show the "Mute/Unmute" button on the user interface.

**Hidden:** The "Mute/Unmute" button is not shown on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call CameraControls

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the camera controls from the user interface (control panel). The setting applies both in-call and out of call.

### USAGE:

xConfiguration UserInterface Features Call CameraControls: CameraControls

where

CameraControls:

*Auto/Hidden*

**Auto:** Shows the camera controls on the user interface.

**Hidden:** Removes the camera controls from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call End

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether or not to remove the default End Call button from the user interface. The setting removes only the button, not its functionality as such.

### USAGE:

xConfiguration UserInterface Features Call End: End

where

End:

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call HdmiPassthrough

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the Call from laptop button on the touch controller.

Refer to the Video Output HDMI Passthrough Allowed setting for more information about HDMI passthrough and the Call from laptop feature. Call from laptop is not supported on Room 55 Dual and Room 70 Dual.

### USAGE:

xConfiguration UserInterface Features Call HdmiPassthrough: HdmiPassthrough

where

HdmiPassthrough:

*Auto/Hidden*

**Auto:** Show the button on the touch controller.

**Hidden:** Don't show the button on the touch controller.

Default value:

*Auto*

## xConfiguration UserInterface Features Call JoinGoogleMeet

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the Google Meet button on the user interface.

The button allows users to dial into Google Meet meetings using the meeting code generated by the Google invite.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

### USAGE:

xConfiguration UserInterface Features Call JoinGoogleMeet: JoinGoogleMeet

where

JoinGoogleMeet:

*Auto/Hidden*

**Auto:** Show the button on the user interface.

**Hidden:** Don't show the button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call JoinMicrosoftTeamsCVI

*Applies to: All products*

Requires user role: ADMIN

Choose to show or hide the MicrosoftTeams button on the user interface.

The button allows users to dial into Microsoft Teams meetings using the CVI (Microsoft Cloud Video Interop) solution. They need the video conference ID and passcode from the Microsoft Teams invite to be able to join.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

### USAGE:

xConfiguration UserInterface Features Call JoinMicrosoftTeamsCVI:

JoinMicrosoftTeamsCVI

where

JoinMicrosoftTeamsCVI:

*Auto/Hidden*

**Auto:** Show the button on the user interface.

**Hidden:** Don't show the button on the userinterface.

Default value:

*Hidden*

## xConfiguration UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Not applicable in this software version.

### USAGE:

```
xConfiguration UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin:  
JoinMicrosoftTeamsDirectGuestJoin
```

where

```
JoinMicrosoftTeamsDirectGuestJoin:
```

*Auto/Hidden*

Default value:

*Auto*

## xConfiguration UserInterface Features Call JoinZoom

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the Zoom button on the user interface.

The button allows users to dial into Zoom meetings using the meeting code generated by the Zoom invite.

### USAGE:

```
xConfiguration UserInterface Features Call JoinZoom: JoinZoom
```

where

```
JoinZoom:
```

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Hidden*

## xConfiguration UserInterface Features Call JoinWebex

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the default Webex button on the user interface.

The button allows users to dial into a Webex meeting using the Webex meeting number, no domain is required. However, for this to work, you must set up the infrastructure to allow calls to be routed to \*@webex.com.

### USAGE:

```
xConfiguration UserInterface Features Call JoinWebex: JoinWebex
```

where

```
JoinWebex:
```

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call Keypad

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether or not to remove the default in-call Keypad button from the user interface. This button opens a keypad, which for example can be used for DTMF input.

### USAGE:

```
xConfiguration UserInterface Features Call Keypad: Keypad
```

where

```
Keypad:
```

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Auto*



## xConfiguration UserInterface Features Call LayoutControls

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the Layout button, which by default is available in call, on the user interface.

### USAGE:

xConfiguration UserInterface Features Call LayoutControls: [LayoutControls](#)

where

[LayoutControls](#):

*Auto/Hidden*

**Auto:** Show the button on the user interface.

**Hidden:** Don't show the button on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call MidCallControls

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide buttons for most mid-call options from the user interface, for example Hold, Transfer, and Resume.

The setting removes only the buttons, not their functionality as such.

### USAGE:

xConfiguration UserInterface Features Call MidCallControls: [MidCallControls](#)

where

[MidCallControls](#):

*Auto/Hidden*

**Auto:** Shows the buttons on the user interface.

**Hidden:** Removes the buttons from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call MusicMode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the toggle button for Music Mode on the user interface.

### USAGE:

xConfiguration UserInterface Features Call MusicMode: [MusicMode](#)

where

[MusicMode](#):

*Auto/Hidden*

**Auto:** Shows the toggle button for Music Mode on the user interface if this feature is supported in the ongoing call.

**Hidden:** The toggle button for Music Mode is never shown on the user interface.

Default value:

*Hidden*

## xConfiguration UserInterface Features Call ParticipantList

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the Participants button, which by default is available in call, on the user interface.

### USAGE:

xConfiguration UserInterface Features Call ParticipantList: [ParticipantList](#)

where

[ParticipantList](#):

*Auto/Hidden*

**Auto:** Show the button on the user interface.

**Hidden:** Don't show the button on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call SelfviewControls

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the self-view controls on the user interface.

### USAGE:

xConfiguration UserInterface Features Call SelfviewControls: SelfviewControls  
where

SelfviewControls:

*Auto/Hidden*

**Auto:** Show the self-view controls on the user interface.

**Hidden:** Don't show the self-view controls on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the default Call button (including the directory, favorites, and recent calls lists) and the default in-call Add participant button on the user interface. The setting removes only the buttons, not their functionality as such.

### USAGE:

xConfiguration UserInterface Features Call Start: Start  
where

Start:

*Auto/Hidden*

**Auto:** Shows the buttons on the user interface.

**Hidden:** Removes the buttons from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call VideoMute

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to show or hide the default "Turn video off" button on the user interface.

### USAGE:

xConfiguration UserInterface Features Call VideoMute: VideoMute  
where

VideoMute:

*Auto/Hidden*

**Auto:** Shows the "Turn video off" button on the user interface if this feature is supported in the ongoing call.

**Hidden:** The "Turn video off" button is never shown on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Call Webcam

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Choose whether to show the Call from laptop button on the touch controller.

### USAGE:

xConfiguration UserInterface Features Call Webcam: Webcam  
where

Webcam:

*Auto/Hidden*

**Auto:** Show the button on the touch controller.

**Hidden:** Don't show the button on the touch controller.

Default value:

*Auto*

## xConfiguration UserInterface Features Files Start

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Choose whether to remove the default Files button from the user interface. The Files button is available only on devices with a touch screen (either built-in or connected). A Room Kit Mini must be used with Samsung Flip (Webex on Flip). The setting removes only the button, not its functionality as such.

This setting applies only to devices that are registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

xConfiguration UserInterface Features Files Start: Start

where

Start:

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features HideAll

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose to hide all the buttons on the user interface.

The setting removes only the buttons, not their functionality.

### USAGE:

xConfiguration UserInterface Features HideAll: HideAll

where

HideAll:

*False/True*

**False:** Shows all default buttons on the user interface.

**True:** Removes all default buttons from the user interface.

Default value:

*False*

## xConfiguration UserInterface Features Share Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether or not to remove the default UI elements for sharing and previewing content, both in call and out of call, from the user interface. The setting removes only the buttons and UI elements, not their functionality as such. You can still share content using Cisco Proximity or Cisco Webex apps.

### USAGE:

xConfiguration UserInterface Features Share Start: Start

where

Start:

*Auto/Hidden*

**Auto:** Shows the buttons and UI elements on the user interface.

**Hidden:** Removes the buttons and UI elements from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Features Whiteboard Start

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Choose whether to remove the default Whiteboard button from the user interface. The Whiteboard button is available only on devices with a touch screen (either built-in or connected). A Room Kit Mini must be used with Samsung Flip (Webex on Flip). The setting removes only the button, not its functionality as such.

This setting applies only to devices that are registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

xConfiguration UserInterface Features Whiteboard Start: Start

where

Start:

*Auto/Hidden*

**Auto:** Shows the button on the user interface.

**Hidden:** Removes the button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Help Tips

*Applies to: All products*

Requires user role: ADMIN

Help tips can be accessed through the user interface. When enabled, a Tips button is present on the home screen.

### USAGE:

xConfiguration UserInterface Help Tips: Tips

where

Tips:

*Auto/Hidden*

**Auto:** Show the help tips button.

**Hidden:** Hide the help tips button.

Default value:

*Auto*

## xConfiguration UserInterface HomeScreen Dashboard

*Applies to: All products*

Requires user role: ADMIN

Choose whether to remove elements, such as the clock and meeting list, from the home screen.

### USAGE:

xConfiguration UserInterface HomeScreen Dashboard: Dashboard

where

Dashboard:

*On [DeskPro DeskMini Desk Board BoardPro BoardProG2]*

*Off/On [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

**Off:** Remove home screen elements.

**On:** Keep all home screen elements.

Default value:

*On*

## xConfiguration UserInterface HomeScreen Peripherals WebApp URL

*Applies to: All products*

Requires user role: ADMIN

Set the URL of the web application you want to run on the Room Navigator (that is, a persistent web app). The application displays on the entire screen, and it can't be dismissed by the user.

If the app is going to interact with the device's API, remember to set Security Xapi WebSocket ApiKey Allowed: True, and add the domain name of the server hosting the app to the allow list in the WebEngine Features Xapi Peripherals AllowedHosts Hosts setting.

Note: Persistent web apps are only available on Room Navigators that are paired to the device over the network.

### USAGE:

xConfiguration UserInterface HomeScreen Peripherals WebApp URL: "URL"

where

URL:

*String (0, 2048)*

The URL of the web application.

Default value:

*""*

## xConfiguration UserInterface KeyTones Mode

*Applies to: All products*

Requires user role: ADMIN, USER

You can configure the device to make a keyboard click sound effect (key tone) when typing text or numbers.

### USAGE:

xConfiguration UserInterface KeyTones Mode: Mode

where

Mode:

*Off/On*

**Off:** There is no key tone sound effect.

**On:** The key tone sound effect is turned on.

Default value:

*Off [DeskPro DeskMini Desk Board BoardPro BoardProG2]*

*On [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

## xConfiguration UserInterface Kiosk Mode

*Applies to: DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Kiosk mode lets you replace the home screen of the device with your own custom web application that you host and maintain yourself. The URL to the custom web application must be added in the UserInterface Kiosk URL setting. As an example, Kiosk mode can be used in reception areas where you want the device set up for visitor registration, providing the facility overview, or allow direct calls to expert services.

Kiosk mode is using the device's web engine, so the WebEngine Mode setting must be On for kiosk mode to work. To allow for making calls, the WebEngine Features SipUrlHandler setting must be On as well.

### USAGE:

xConfiguration UserInterface Kiosk Mode: Mode

where

Mode:

*Off/On*

**Off:** The device operates in standard mode.

**On:** The device is set up in kiosk mode.

Default value:

*Off*

## xConfiguration UserInterface Kiosk URL

*Applies to: DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

The URL of the custom web application that is shown when the device is set up in kiosk mode. Also refer to the UserInterface Kiosk Mode setting.

### USAGE:

xConfiguration UserInterface Kiosk URL: "URL"

where

URL:

*String (0, 2048)*

The URL of the kiosk mode web application.

Default value:

*""*

## xConfiguration UserInterface Language

*Applies to: All products*

Requires user role: ADMIN, USER

Select the language to be used on the user interface. If the language is not supported, the default language (English) will be used.

### USAGE:

xConfiguration UserInterface Language: Language

where

Language:

*Arabic/Catalan/ChineseSimplified/ChineseTraditional/Czech/Danish/Dutch/English/EnglishUK/Finnish/French/FrenchCanadian/German/Hebrew/Hungarian/Italian/Japanese/Korean/Norwegian/Polish/Portuguese/PortugueseBrazilian/Russian/Spanish/SpanishLatin/Swedish/Turkish/Ukrainian*

Select a language from the list.

Default value:

*English*

## xConfiguration UserInterface LedControl Mode

*Applies to: All products*

Requires user role: ADMIN

The wall mount version of the Room Navigator has LED lights. You can configure how they should be controlled.

### USAGE:

xConfiguration UserInterface LedControl Mode: Mode

where

Mode:

*Auto/Manual/Off*

**Auto:** The video device controls the LED lights automatically, typically based on the room booking status (for example, green: room available, red: room in use). The UserInterface LedControl Color Set Color command will have no effect.

**Manual:** You can control the LED lights and set the color using the UserInterface LedControl Color Set Color command.

**Off:** The LED lights are turned off permanently.

Default value:

*Auto*

## xConfiguration UserInterface LiveAnnotation Enabled

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The live annotation feature allows users to annotate on the screen share in call or outside call without any interruption to the content share flow. This feature only applies if you have a touch screen. Collaborative annotation on a whiteboard shared by someone else is only available for Webex (converged) meetings, and only for devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

Use this setting to determine whether you are allowed to annotate live on the content.

### USAGE:

xConfiguration UserInterface LiveAnnotation Enabled: Enabled

where

Enabled:

*False/True*

**False:** You cannot make live annotation. The annotation button in the floating toolbar doesn't have the "Point and annotate on content" option. The "Annotate on screenshot" option is not affected by this setting.

**True:** You can make live annotation. Start by tapping the annotation button in the floating toolbar, then select the "Point and annotate on content" option.

Default value:

*False*

## xConfiguration UserInterface MeetingJoin CVITenants

*Applies to: All products*

Requires user role: ADMIN

Set the default hostname/tenant key to be used for Microsoft Teams meetings when the device is set up to use CVI (Cloud Video Interop). This hostname, which identifies the organization hosting the meeting, is combined with the video conference ID to generate the full SIP URI for the meeting.

In the following examples, the video conference ID is 123456. If UserInterface MeetingJoin CVITenants is set to "tenant@m.webex.com", the URI becomes 123456.tenant@m.webex.com. If UserInterface MeetingJoin CVITenants is set to "vc.example.com", the URI becomes 123456@vc.example.com.

### USAGE:

xConfiguration UserInterface MeetingJoin CVITenants: "CVITenants"

where

CVITenants:

*String (0, 255)*

A valid hostname/tenant key.

Default value:

*""*

## xConfiguration UserInterface MuteWarning

*Applies to: All products*

Requires user role: ADMIN

Choose whether to show a warning on screen if you start talking while your microphone is muted.

### USAGE:

xConfiguration UserInterface MuteWarning: MuteWarning

where

MuteWarning:

*Disabled/Enabled*

**Disabled:** Don't show the mute warning.

**Enabled:** Show the mute warning.

Default value:

*Enabled*

## xConfiguration UserInterface NameAndSiteLabels Mode

*Applies to: All products*

Requires user role: ADMIN

You can configure a device to hide all name and site labels for remote participants in a meeting.

### USAGE:

xConfiguration UserInterface NameAndSiteLabels Mode: Mode

where

Mode:

*Auto/Hidden*

**Auto:** Show name and site labels.

**Hidden:** Hide name and site labels.

Default value:

*Auto*

## xConfiguration UserInterface OSD EncryptionIndicator

*Applies to: All products*

Requires user role: ADMIN

Define whether to show a "Call encrypted" / "Call not encrypted" notification on screen at the start of a meeting. Regardless of this setting, you can always find information about encryption under Security (blue shield) when tapping the screen (upper right corner) or touch controller (upper).

This setting doesn't apply to Webex and WebRTC calls.

### USAGE:

xConfiguration UserInterface OSD EncryptionIndicator: EncryptionIndicator

where

EncryptionIndicator:

*Auto/AlwaysOn/AlwaysOff*

**Auto:** If the call is encrypted, the "Call encrypted" notification is shown for 5 seconds. If the call is not encrypted, the "Call not encrypted" notification is shown for 5 seconds.

**AlwaysOn:** If the call is encrypted, the "Call encrypted" notification is shown for 5 seconds. If the call is not encrypted, the "Call not encrypted" notification is shown for 5 seconds.

**AlwaysOff:** The "Call encrypted" / "Call not encrypted" notification will not be shown on screen at all.

Default value:

*Auto*

## xConfiguration UserInterface OSD HalfwakeMessage

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

A custom message can be displayed in the middle of the main screen when the device is in the halfwake state. The custom message will replace the default message, which gives instructions how to start using the device. You can also delete the default message, without adding a custom message.

### USAGE:

xConfiguration UserInterface OSD HalfwakeMessage: "HalfwakeMessage"

where

HalfwakeMessage:

*String (0, 128)*

The custom message. An empty string: Restore the default message. A space only: There will be no message at all.

Default value:

*""*

## xConfiguration UserInterface OSD Mode

*Applies to: All products*

Requires user role: ADMIN

You can configure a device to output a clean video stream. This is referred to as broadcast mode. In this mode the indicators, notifications, and controls are removed. This mode is primarily for broadcasting and recording services where you only want to pass on the video to your viewers.

### USAGE:

xConfiguration UserInterface OSD Mode: Mode

where

Mode:

*Auto/Unobstructed*

**Auto:** Indicators, notifications, and controls are included in the video stream (normal mode).

**Unobstructed:** Indicators, notifications, and controls are removed from the video stream (broadcast mode). Name labels are not removed.

Default value:

*Auto*

## xConfiguration UserInterface OSD Output

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Specify the monitor to use for displaying on-screen information and indicators. This is the On-Screen Display (OSD).

### USAGE:

xConfiguration UserInterface OSD Output: Output

where

Output:

1 [ Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]

Auto/1/2 [ RoomKit RoomBar CodecPlus Room70/Room55D ]

Auto/1/2/3 [ RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/  
Room70Panorama ]

Auto [ RoomKitMini ]

**Auto:** For devices with integrated screen, the on-screen information and indicators are sent to the integrated screen. If the device has two integrated screens, the left screen is used.

For devices without integrated screens, the device detects when a screen is connected to a video output, and sends the on-screen information and indicators to the first screen you connect. If you have a multi-screen setup, and all screens are connected before switching on the device, the on-screen information and indicators are sent to the video output with the lowest number, starting with Output Connector 1 (HDMI 1).

**1..n:** The device sends the on-screen information and indicators to the specified output. Choose n to send the on-screen information and indicators to the device's Output Connector n.

For devices with integrated screens, the lowest numbers refer to the integrated screens.

Default value:

1 [ Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]

Auto [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro  
Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]

## xConfiguration UserInterface Phonebook DefaultSearchFilter

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When searching for a name in the directory, you can search through everything or filter to include only people or only rooms. This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

### USAGE:

xConfiguration UserInterface Phonebook DefaultSearchFilter:  
DefaultSearchFilter

where

DefaultSearchFilter:

*All/People/Rooms*

**All:** Search results include both people and rooms.

**People:** Search results include only people.

**Rooms:** Search results include only rooms.

Default value:

*All*

## xConfiguration UserInterface Phonebook Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting determines if a user is allowed to add or change a contact in the Directory and Favorites list from the user interface of the device.

### USAGE:

xConfiguration UserInterface Phonebook Mode: Mode

where

Mode:

*ReadOnly/ReadWrite*

**ReadOnly:** You cannot add a contact to the Favorites list, edit a contact in the Favorites list, or edit any contact from the Directory or Favorites list before calling.

**ReadWrite:** You are able to add a contact to the Favorites list, edit a contact in the Favorites list, and edit a contact from the Directory or Favorites list before calling.

Default value:

*ReadWrite*



## xConfiguration UserInterface Proximity Notifications

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Configure the display of proximity notifications on the user interface.

### USAGE:

xConfiguration UserInterface Proximity Notifications: Notifications

where

Notifications:

*Auto/Off/On*

**Auto:** Allow the system to automatically determine when to display proximity notifications.

**Off:** Proximity notifications will not be shown on the user interface.

**On:** All proximity notifications will be shown on the user interface.

Default value:

*Auto*

## xConfiguration UserInterface RoomScheduler AmbientTemperature Show

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). The Room Navigator may show the room temperature, if that is available from the device it's connected to. Use this setting to decide whether to display it.

### USAGE:

xConfiguration UserInterface RoomScheduler AmbientTemperature Show: Show

where

Show:

*Auto/Hidden/ShowCelsius/ShowFahrenheit*

**Auto:** Show the temperature in both degrees Celsius and Fahrenheit.

**Hidden:** Don't show the temperature.

**ShowCelsius:** Show the temperature in degrees Celsius

**ShowFahrenheit:** Show the temperature in degrees Fahrenheit.

Default value:

*Auto*

## xConfiguration UserInterface RoomScheduler PeopleCount Current

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). The Room Navigator may show the number of people currently in the meeting room, if that information is available from the device it's connected to. Use this setting to decide whether to display this information.

### USAGE:

xConfiguration UserInterface RoomScheduler PeopleCount Current: Current

where

Current:

*Auto/Hidden*

**Auto:** Show the number of people.

**Hidden:** Don't show the number of people.

Default value:

*Auto*

## xConfiguration UserInterface RoomScheduler StatusWhenInUse

*Applies to: All products*

Requires user role: ADMIN

This setting applies when a Room Navigator is set up as a room booking device (also referred to as scheduler mode). The Room Navigator shows the status of a meeting room, that is, whether the room is free or busy (using the LED color and text on the Room Navigator screen). Use this setting to determine what will affect the status of the room.

### USAGE:

xConfiguration UserInterface RoomScheduler StatusWhenInUse: StatusWhenInUse

where

StatusWhenInUse:

*Auto/Free*

**Auto:** The status of the room (free/busy) is based on whether the room is used. It's marked as free when not in use, and busy when in use. So even if there is no calendar invite, it will be marked as busy if the device detects people in the room.

**Free:** The status of the room (free/busy) is based only on the calendar booking. It's marked as free when there is no calendar booking, and busy when there is a calendar booking.

Default value:

*Auto*

## xConfiguration UserInterface RoomStatusMenu Visibility

*Applies to: All products*

Requires user role: ADMIN

This setting allows you to show or hide the top left menu of the user interface.

### USAGE:

xConfiguration UserInterface RoomStatusMenu Visibility: Visibility  
where

Visibility:

*Auto/Hidden*

**Auto:** The top left menu is visible.

**Hidden:** The top left menu is hidden.

Default value:

*Auto*

## xConfiguration UserInterface ScreenLock Policy

*Applies to: All products*

Requires user role: ADMIN

Choose whether to enforce setting a PIN lock on the device. In locked mode, only emergency calls, and reception of important notifications (without revealing details) are available.

This setting applies to Board, Desk and Room Series devices in personal mode, and to Desk Series devices in shared mode. The device must be registered to the Webex cloud service or linked to Webex Edge for devices.

### USAGE:

xConfiguration UserInterface ScreenLock Policy: Policy  
where

Policy:

*Enforced/Optional*

**Enforced:** You must set a PIN lock on the device before you can start using it. On shared mode devices, this applies only if the UserInterface ScreenLock Workspace Allowed setting is True.

**Optional:** The users can decide if they want to set a PIN lock on personal devices. On shared mode devices, you can decide to set a PIN lock only if the UserInterface ScreenLock Workspace Allowed setting is True.

Default value:

*Optional*

## xConfiguration UserInterface ScreenLock Workspace Allowed

*Applies to: All products*

Requires user role: ADMIN

Choose whether the user is allowed to add a PIN lock for the device. This setting applies only to shared mode devices, because you are always allowed to add a PIN lock on personal mode devices.

Refer to the UserInterface ScreenLock AdminInitiateRecovery command, how to initiate setting PIN lock on a device.

### USAGE:

xConfiguration UserInterface ScreenLock Workspace Allowed: Allowed  
where

Allowed:

*False/True*

**False:** The user is not allowed to add a PIN lock.

**True:** The user is allowed to add a PIN lock.

Default value:

*False*

## xConfiguration UserInterface Security Mode

*Applies to: All products*

Requires user role: ADMIN

This setting allows you to hide the contact information from the top left dropdown menu on the user interface. However, this does not hide any details from the Device settings panel, which you can open from the control panel (swipe from right or tap the icon in the upper right corner of the user interface).

Refer to the UserInterface SettingsMenu Mode and UserInterface SettingsMenu Visibility for more information about protecting device settings and hiding information from the user interface.

### USAGE:

xConfiguration UserInterface Security Mode: Mode  
where

Mode:

*Normal/Strong*

**Normal:** The contact information is shown in the dropdown menu.

**Strong:** Contact information is not shown in the dropdown menu.

Default value:

*Normal*

## xConfiguration UserInterface SettingsMenu Mode

*Applies to: All products*

Requires user role: ADMIN

The Device settings panel, which you can open from the control panel (swipe from right or tap the icon in the upper right corner of the user interface), can be protected by the device's admin password. If not password protected, anyone can access these settings and also factory reset the device. If password protected, all settings that require authentication have a padlock symbol.

Refer to the UserInterface SettingsMenu Visibility if you want to remove the control panel (including the device settings panel) from the user interface.

### USAGE:

xConfiguration UserInterface SettingsMenu Mode: Mode

where

Mode:

*Locked/Unlocked*

**Locked:** You must sign in with an administrator's username and passphrase to access Device settings.

**Unlocked:** All users can access the Device settings.

Default value:

*Unlocked*

## xConfiguration UserInterface SettingsMenu Visibility

*Applies to: All products*

Requires user role: ADMIN

This setting allows you to remove the control panel (including the device settings panel) from the user interface.

Refer to the UserInterface SettingsMenu Mode if you just want to protect the device settings with a password.

### USAGE:

xConfiguration UserInterface SettingsMenu Visibility: Visibility

where

Visibility:

*Auto/Hidden*

**Auto:** The control panel opens if you swipe from right or tap the icon in the upper right corner of the user interface.

**Hidden:** The control panel is removed from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface SoundEffects Mode

*Applies to: All products*

Requires user role: ADMIN, USER

You can configure the device to make a sound effect, for example, when someone connects a laptop or mobile through Proximity.

The keyboard click sound effect when typing text is not affected by this setting (refer to the UserInterface Keytones Mode setting).

### USAGE:

xConfiguration UserInterface SoundEffects Mode: Mode

where

Mode:

*Off/On*

**Off:** There are no sound effects.

**On:** The sound effects are switched on.

Default value:

*On*

## xConfiguration UserInterface Theme Name

*Applies to: All products*

Requires user role: ADMIN, USER

Change the theme on the user interface.

Note, this config may change or be replaced in the future.

### USAGE:

xConfiguration UserInterface Theme Name: Name

where

Name:

*Auto/Light/Night*

**Auto:** Use the default settings, letting the system decide what is best.

**Light:** Use the "Light" background theme.

**Night:** Use the "Night" background theme.

Default value:

*Auto*

## xConfiguration UserInterface UsbPromotion

*Applies to: RoomKitMini RoomBar RoomBarPro*

Requires user role: ADMIN

Choose whether or not to show on the halfwake screen, a text that informs you that you can use the device as a USB camera.

### USAGE:

xConfiguration UserInterface UsbPromotion: UsbPromotion

where

UsbPromotion:

*Off/On*

**Off:** The USB camera information text is not shown.

**On:** The USB camera information text is shown.

Default value:

*Off*

## xConfiguration UserInterface WebcamOnlyMode

*Applies to: RoomKitMini*

Requires user role: ADMIN

Not applicable in this software version.

### USAGE:

xConfiguration UserInterface WebcamOnlyMode: WebcamOnlyMode

where

## xConfiguration UserInterface Whiteboard ActivityIndicators

*Applies to: All products*

Requires user role: ADMIN

Activity indicators let you see who is drawing and annotating in a call.

The avatars of the participants or the initials of the device are displayed when someone is interacting with the whiteboard, so you can follow who is drawing or annotating.

Applies only to cloud-registered devices.

### USAGE:

xConfiguration UserInterface Whiteboard ActivityIndicators: ActivityIndicators

where

ActivityIndicators:

*Off/On*

**On:** Enables activity indicators.

**Off:** Disables activity indicators.

Default value:

*On*

## xConfiguration UserInterface Whiteboard Deletion

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to hide the option to delete a whiteboard from the user interface - both in the whiteboard app and the files app. This does not disable deleting whiteboards as such, it only removes the button from the UI. You can still use the xAPI (Files Delete command).

### USAGE:

xConfiguration UserInterface Whiteboard Deletion: Deletion

where

Deletion:

*Auto/Hidden*

**Auto:** Shows the delete button on the user interface.

**Hidden:** Removes the delete button from the user interface.

Default value:

*Auto*

## xConfiguration UserInterface Whiteboard ShareInCall

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Choose whether to hide the option to share an existing whiteboard in call from the user interface (the Call app and the Whiteboard app). This does not stop whiteboard being shared in call from another device, and does not disable sharing whiteboard in call from the API.

### USAGE:

xConfiguration UserInterface Whiteboard ShareInCall: ShareInCall  
where

ShareInCall:

*Auto/Hidden*

**Auto:** Show the Share button (share in call option) on the UI.

**Hidden:** Remove the Share button (share in call option) from the UI. Hence remove the option to share a whiteboard in call from the UI.

Default value:

*Auto*

## UserManagement configuration

### xConfiguration UserManagement LDAP Admin Filter

*Applies to: All products*

Requires user role: ADMIN

The LDAP filter is used to determine which users should be granted administrator privileges.

You always have to set either an LDAP Admin Group or an LDAP Admin Filter. An LDAP Admin Filter takes precedence, so if the UserManagement LDAP Admin Filter is set, the UserManagement LDAP Admin Group setting is ignored.

### USAGE:

xConfiguration UserManagement LDAP Admin Filter: Filter  
where

Filter:

*String (0, 1024)*

Refer to the LDAP specification for the syntax of this string. Example:

```
"((memberof=CN=admin group, OU=company groups, DC=company, DC=com)
(sAMAccountName=username))"
```

Default value:

*""*

### xConfiguration UserManagement LDAP Admin Group

*Applies to: All products*

Requires user role: ADMIN

Members of this group will be given administrator access. This setting is a shorthand for saying (memberOf:1.2.840.113556.1.4.1941:=<group name>).

You must always set either an LDAP Admin Group or an LDAP Admin Filter. An LDAP Admin Filter takes precedence, so if the UserManagement LDAP Admin Filter is set, the UserManagement LDAP Admin Group setting is ignored.

### USAGE:

xConfiguration UserManagement LDAP Admin Group: Group  
where

Group:

*String (0, 255)*

The distinguished name of the group. Example: "CN=admin group, OU=company groups, DC=company, DC=com"

Default value:

*""*

## xConfiguration UserManagement LDAP Attribute

*Applies to: All products*

Requires user role: ADMIN

The attribute used to map to the provided username. If not set, sAMAccountName is used.

### USAGE:

xConfiguration UserManagement LDAP Attribute: "Attribute"

where

Attribute:

*String (0, 255)*

The attribute name.

Default value:

""

## xConfiguration UserManagement LDAP BaseDN

*Applies to: All products*

Requires user role: ADMIN

The distinguishing name of the entry at which to start a search (base).

### USAGE:

xConfiguration UserManagement LDAP BaseDN: "BaseDN"

where

BaseDN:

*String (0, 255)*

The distinguishing name of the base. Example: "DC=company, DC=com"

Default value:

""

## xConfiguration UserManagement LDAP BindDN

*Applies to: All products*

Requires user role: ADMIN

Look up a user's full DN (distinguishing name) by logging in to the LDAP server using these credentials and use the DN for group look-up. The look-up is based on matching the user's login name to the value of the "Attribute" configuration item. Refer to the UserManagement LDAP MemberAttribute setting.

### USAGE:

xConfiguration UserManagement LDAP BindDN: "BindDN"

where

BindDN:

*String (0, 255)*

The user's full DN.

Default value:

""

## xConfiguration UserManagement LDAP BindPassword

*Applies to: All products*

Requires user role: ADMIN

The password associated with the user defined in the UserManagement LDAP BindDN setting.

This password is not sent to the Webex cloud, and it cannot be provisioned from the cloud.

### USAGE:

xConfiguration UserManagement LDAP BindPassword: "BindPassword"

where

BindPassword:

*String (0, 255)*

The user's password.

Default value:

""

## xConfiguration UserManagement LDAP Encryption

*Applies to: All products*

Requires user role: ADMIN

Define how to secure the communication between the device and the LDAP server. You can override the port number by using the UserManagement LDAP Server Port setting.

### USAGE:

xConfiguration UserManagement LDAP Encryption: Encryption

where

Encryption:

*LDAPS/None/STARTTLS*

**LDAPS:** Connect to the LDAP server on port 636 over TLS (Transport Layer Security).

**None:** Connect to the LDAP server on port 389 with no encryption.

**STARTTLS:** Connect to the LDAP server on port 389, then send a STARTTLS command to upgrade to an encrypted connection (TLS).

Default value:

*LDAPS*

## xConfiguration UserManagement LDAP MemberAttribute

*Applies to: All products*

Requires user role: ADMIN

When checking the user's group membership, use this group attribute. If not set, use memberUid.

### USAGE:

xConfiguration UserManagement LDAP MemberAttribute: "MemberAttribute"

where

MemberAttribute:

*String (0, 255)*

The member attribute name.

Default value:

*""*

## xConfiguration UserManagement LDAP MinimumTLSVersion

*Applies to: All products*

Requires user role: ADMIN

Set the lowest version of the TLS (Transport Layer Security) protocol that is allowed for LDAP.

### USAGE:

xConfiguration UserManagement LDAP MinimumTLSVersion: MinimumTLSVersion

where

MinimumTLSVersion:

*TLSv1.0/TLSv1.1/TLSv1.2/TLSv1.3*

**TLSv1.0:** Support TLS version 1.0 or higher.

**TLSv1.1:** Support TLS version 1.1 or higher.

**TLSv1.2:** Support TLS version 1.2 or higher.

**TLSv1.3:** Support TLS version 1.3 or higher.

Default value:

*TLSv1.2*

## xConfiguration UserManagement LDAP Mode

*Applies to: All products*

Requires user role: ADMIN

The device supports the use of an LDAP (Lightweight Directory Access Protocol) server as a central place to store and validate usernames and passwords. Use this setting to configure whether or not to use LDAP authentication. Our implementation is tested for the Microsoft Active Directory (AD) service.

If you switch on LDAP Mode, make sure to configure the other UserManagement LDAP settings to suit your setup. Here is a few examples.

Example 1:

- UserManagement LDAP Mode: On
- UserManagement LDAP Address: "192.0.2.20"
- UserManagement LDAP BaseDN: "DC=company, DC=com"
- UserManagement LDAP Admin Group: "CN=admin group, OU=company groups, DC=company, DC=com"

Example 2:

- UserManagement LDAP Mode: On
- UserManagement LDAP Address: "192.0.2.20"
- UserManagement LDAP BaseDN: "DC=company, DC=com"
- UserManagement LDAP Admin Filter: "(!((memberof=CN=admin group, OU=company groups, DC=company, DC=com)(sAMAccountName=username)))"

### USAGE:

xConfiguration UserManagement LDAP Mode: Mode

where

Mode:

*Off/On*

**Off:** LDAP authentication is not allowed.

**On:** LDAP authentication is allowed.

Default value:

*Off*

## xConfiguration UserManagement LDAP Server Address

*Applies to: All products*

Requires user role: ADMIN

Set the IP address or hostname of the LDAP server.

### USAGE:

xConfiguration UserManagement LDAP Server Address: "Address"

where

Address:

*String (0, 255)*

A valid IPv4 address, IPv6 address or hostname.

Default value:

*""*

## xConfiguration UserManagement LDAP Server Port

*Applies to: All products*

Requires user role: ADMIN

Set the port to connect to the LDAP server on. If set to 0, use the default for the selected protocol (see the UserManagement LDAP Encryption setting).

### USAGE:

xConfiguration UserManagement LDAP Server Port: Port

where

Port:

*Integer (0..65535)*

The LDAP server port number.

Default value:

*0*



## xConfiguration UserManagement LDAP VerifyServerCertificate

*Applies to: All products*

Requires user role: ADMIN

When the device connects to an LDAP server, the server will identify itself to the device by presenting its certificate. Use this setting to determine whether or not the device will verify the server certificate.

### USAGE:

```
xConfiguration UserManagement LDAP VerifyServerCertificate:  
VerifyServerCertificate
```

where

```
VerifyServerCertificate:
```

*Off/On*

**Off:** The device will not verify the LDAP server's certificate.

**On:** The device must verify that the LDAP server's certificate is signed by a trusted Certificate Authority (CA). The CA must be on the list of trusted CAs that are uploaded to the device in advance. Use the device's web interface to manage the list of trusted CAs (see more details in the administrator guide).

Default value:

*On*

## xConfiguration UserManagement PasswordPolicy Complexity MinimumDigits

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the minimum number of numerical characters (0..9) in the password.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy Complexity MinimumDigits:  
MinimumDigits
```

where

```
MinimumDigits:
```

*Integer (0..4)*

The minimum number of numerical characters. 0 means no restrictions.

Default value:

*0*

## xConfiguration UserManagement PasswordPolicy Complexity MinimumLength

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the minimum number of characters in the password.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy Complexity MinimumLength:  
MinimumLength
```

where

```
MinimumLength:
```

*Integer (0..256)*

The minimum number of characters. 0 means no restrictions.

Default value:

*8*

## xConfiguration UserManagement PasswordPolicy Complexity MinimumLowercase

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the minimum number of lower-case letters in the password.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy Complexity MinimumLowercase:  
MinimumLowercase
```

where

MinimumLowercase:

*Integer (0..4)*

The minimum number of lower-case characters. 0 means no restrictions.

Default value:

0

## xConfiguration UserManagement PasswordPolicy Complexity MinimumSpecial

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the minimum number of special characters in the password.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy Complexity MinimumSpecial:  
MinimumSpecial
```

where

MinimumSpecial:

*Integer (0..4)*

The minimum number of special characters. 0 means no restrictions.

Default value:

0

## xConfiguration UserManagement PasswordPolicy Complexity MinimumUppercase

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the minimum number of upper-case letters in the password.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy Complexity MinimumUppercase:
  MinimumUppercase
```

where

MinimumUppercase:

*Integer (0..4)*

The minimum number of upper-case characters. 0 means no restrictions.

Default value:

0

## xConfiguration UserManagement PasswordPolicy MaxLifetime

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the maximum number of days before a password becomes invalid.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy MaxLifetime: MaxLifetime
```

where

MaxLifetime:

*Integer (0..7300)*

The minimum number of days. 0 means no restrictions.

Default value:

0

## xConfiguration UserManagement PasswordPolicy ReuseLimit

*Applies to: All products*

Requires user role: ADMIN

When signing in to the device as a local user, the password must follow the rules set by the UserManagement PasswordPolicy settings. These settings replace the "systemtools securitysetting" command that was available in software versions older than CE9.10.

A new password rule will not apply to existing passwords but will take effect on the next password change.

This setting specifies the reuse limit (n), which means that a user cannot change to either of their previous n passwords.

### USAGE:

```
xConfiguration UserManagement PasswordPolicy ReuseLimit: ReuseLimit
```

where

ReuseLimit:

*Integer (0..24)*

The minimum number of passwords. 0 means no restrictions.

Default value:

12

## Video configuration

### xConfiguration Video DefaultLayoutFamily Local

*Applies to: All products*

Requires user role: ADMIN

Select which video layout family to use locally.

#### USAGE:

xConfiguration Video DefaultLayoutFamily Local: Local

where

Local:

*Auto/Equal/Overlay/Prominent/Prominent\_L/Single*

**Auto:** The default layout family, as given in the layout database provided by the device, will be used as the local layout.

**Equal:** The Grid layout family will be used as the local layout. Participants are shown in a grid of equal sized videos. If there is shared content it will appear beside the grid.

**Overlay:** The Overlay layout family will be used as the local layout. The active speaker will be shown in full screen, with the other participants in thumbnails overlaid across the bottom. If there is content it will appear in full screen with the active speaker in a thumbnail overlaid at the top. Transitions between active speakers are voice switched.

**Prominent:** The Stack layout family will be used as the local layout. The active speaker, or shared content, will be a large picture, while the other participants will be small pictures across the top. Transitions between active speakers are voice switched.

**Prominent\_L:** The Prominent layout family will be used as the local layout. The active speaker is shown in the upper left part of the screen, and other participants are ranged across the bottom and beside on the right.

**Single:** The Focus layout family will be used as the local layout. The active speaker, or the presentation if present, will be shown in full screen. The other participants are not shown. Transitions between active speakers are voice switched.

Default value:

*Auto*

### xConfiguration Video DefaultLayoutFamily LocalContent

*Applies to: All products*

Requires user role: ADMIN

Select which video layout family to switch to by default locally, when content sharing starts.

#### USAGE:

xConfiguration Video DefaultLayoutFamily LocalContent: LocalContent

where

LocalContent:

*Auto/Equal/Overlay/Prominent/Prominent\_L/Single*

**Auto:** The default layout family, as given in the layout database provided by the device, will be used as the local layout.

**Equal:** The Grid layout family will be used as the local layout. Participants are shown in a grid of equal sized videos. Shared content will appear beside the grid.

**Overlay:** The Overlay layout family will be used as the local layout. Shared content will appear in full screen with the active speaker in a thumbnail overlaid at the top.

**Prominent:** The Stack layout family will be used as the local layout. The shared content will be a large picture, and participants will be small pictures across the top.

**Prominent\_L:** The Prominent layout family will be used as the local layout. Content is shown in the upper left part of the screen, and participants are ranged across the bottom and beside on the right.

**Single:** The Focus layout family will be used as the local layout. The shared content will be shown in full screen. Participants are not shown.

Default value:

*Auto*

## xConfiguration Video DefaultMainSource

*Applies to: All products*

Requires user role: ADMIN, USER

Define the default input source for main video in calls. The main video is played on this source when you switch on or restart the video device. Use the Video Input SetMainVideoSource command to change to another source while the device is running.

### USAGE:

xConfiguration Video DefaultMainSource: DefaultMainSource

where

DefaultMainSource:

1/2/3/4/5/6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

1/2/3/4 [RoomKitEQX CodecEQ]

1/2/3 [RoomKit RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro DeskMini DeskBoardPro BoardProG2]

1/2 [RoomKit RoomKitMini DeskMini Board]

The default source for main video.

Default value:

1

## xConfiguration Video Input AirPlay Beacon

*Applies to: All products*

Requires user role: ADMIN

Turn on discovery beacon support. The discovery beacon makes AirPlay deployment easier in environments where the video device and the iPhone, iPad, or Mac are not guaranteed to be on the same broadcast domain (VLAN or subnet). This is typically the case in enterprise network set ups.

Beacon discovery requires Bluetooth®. On Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro, you must enable Bluetooth with the dedicated Bluetooth Allowed and Bluetooth Enabled settings. On devices that don't have dedicated Bluetooth settings, Bluetooth is automatically enabled when you turn on the discovery beacon.

This setting isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

### USAGE:

xConfiguration Video Input AirPlay Beacon: Beacon

where

Beacon:

*Auto/Off*

**Auto:** The AirPlay beacon is activated, and the device is discoverable. Typically used in enterprise network setups.

**Off:** The AirPlay beacon is deactivated, and the device will not be discoverable through the beacon service. Typically used in home network set ups.

Default value:

*Auto*

## xConfiguration Video Input AirPlay DiscoveryInstructions NetworkName

*Applies to: All products*

Requires user role: ADMIN

Insert the name of the network that the Apple device must connect to. If not set, the Video Input AirPlay DiscoveryInstructions ShowNetworkInfo setting will display the name defined in the network itself.

This setting isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

### USAGE:

xConfiguration Video Input AirPlay DiscoveryInstructions NetworkName:

"NetworkName"

where

NetworkName:

*String (0, 32)*

The name of the network.

Default value:

*""*

## xConfiguration Video Input AirPlay DiscoveryInstructions ShowNetworkInfo

*Applies to: All products*

Requires user role: ADMIN

Decide whether to show the name of the network that the Apple device must connect to on the AirPlay information screen (Curtain) on the video device. The network name is either defined in the network itself, or explicitly set in the Video Input AirPlay DiscoveryInstructions NetworkName setting. The latter take precedence.

This setting isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

### USAGE:

xConfiguration Video Input AirPlay DiscoveryInstructions ShowNetworkInfo:

ShowNetworkInfo

where

ShowNetworkInfo:

*False/True*

**False:** Don't display the network name on the AirPlay information screen.

**True:** Display the network name on the AirPlay information screen.

Default value:

*False*

## xConfiguration Video Input AirPlay Mode

*Applies to: All products*

Requires user role: ADMIN

All devices, except the first generation of Board (non S-series), support AirPlay. With AirPlay users can wirelessly connect their iPhone, iPad, or Mac to share their screen, collaborate, and playback audio and video content.

Use this setting to activate AirPlay on a device.

Once activated, users can disable and re-enable AirPlay themselves from the device's Settings menu if using a personal mode device. This is not possible for shared devices.

### USAGE:

xConfiguration Video Input AirPlay Mode: Mode

where

Mode:

*Board, non S-series: Off Other devices: Off/On*

**On:** AirPlay is activated on the device.

**Off:** AirPlay is deactivated on the device.

Default value:

*Off*

## xConfiguration Video Input AirPlay Password

*Applies to: All products*

Requires user role: ADMIN

Define the password that must be used for AirPlay pairing when the Video Input AirPlay Security setting is set to Password.

This setting isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

### USAGE:

xConfiguration Video Input AirPlay Password: "Password"

where

Password:

*String (0, 63)*

The AirPlay pairing password.

Default value:

*""*

## xConfiguration Video Input AirPlay SecurityMode

*Applies to: All products*

Requires user role: ADMIN

Define the type of authentication to use when pairing an iPhone, iPad, or Mac to the device (AirPlay pairing).

This setting isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

### USAGE:

xConfiguration Video Input AirPlay SecurityMode: SecurityMode

where

SecurityMode:

*Password/PinAlways/PinFirstTime*

**Password:** The device will require a password for AirPlay pairing. You must define the password in the Video Input AirPlay Password setting. If you don't define a password, the device will revert to default and request a PIN.

**PinAlways:** The device will request a PIN at every AirPlay pairing (except if reconnecting within 30 seconds after disconnecting).

**PinFirstTime:** The device will request a PIN at the first AirPlay pairing. After the first time, the successfully paired device will be remembered.

Default value:

*Shared mode devices: PinAlways Personal mode devices: PinFirstTime*

## xConfiguration Video Input CameraConfigMode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This setting applies only when connecting a Precision 60, PTZ-12, or PTZ 4K camera as a second or third camera to the device.

When connecting an extra camera to a device, several settings must be changed accordingly. This can be done manually, one setting at a time, or automatically when the device detects that a camera is connected.

In automatic mode these settings will be applied (n is the connector that the camera is connected to).

Video Input Connector [n] CameraControl CameraId: n

Video Input Connector [n] CameraControl Mode: On

Video Input Connector [n] InputSourceType: camera

Video Input Connector [n] PresentationSelection: Manual

Video Input Connector [n] Quality: Motion

If the Cameras Camera [n] AssignedSerialNumber setting has been applied, the settings above will not be pushed even if the CameraConfigMode is set to Auto. In general, this happens when EDID information is not available, and thereby prevents the device from detecting that a camera is connected. In this case the device issues a warning.

Also, don't use Auto mode if the Cameras Camera n DetectedConnector status doesn't correspond to the input connector number (n). Example: If camera 2 is connected to HDMI [2], then only use Auto mode if the Cameras Camera 2 DetectedConnector status returns 2. If these numbers don't match, you must use the Cameras Camera [n] AssignedSerialNumber setting instead.

### USAGE:

xConfiguration Video Input CameraConfigMode: CameraConfigMode

where

CameraConfigMode:

*Auto/Manual*

**Auto:** The settings above will be pushed automatically once the device detects that the camera is connected.

**Manual:** You must configure the settings manually, one by one, when connecting a camera.

Default value:

*Manual*

## xConfiguration Video Input Connector [n] CameraControl CameraId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The camera ID is a unique identifier of the camera that is connected to this video input. For devices with more than one camera, you can see the currently assigned IDs in the Cameras Camera status.

### USAGE:

xConfiguration Video Input Connector [n] CameraControl CameraId: CameraId

where

n: Unique ID that identifies the video input connector.

Range: 1..2 [ RoomKit RoomKitMini DeskMini Board ]

Range: 1..3 [ RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2 ]

Range: 1..4 [ RoomKitEQX CodecEQ ]

Range: 1..6 [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]

CameraId:

1/2/3/4/5/6/7 [ RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2 ]

1 [ RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board ]

For devices with more than one camera, set an ID of the camera. For devices with one camera the value is fixed and cannot be changed.

Default value:

Connector n: n [ RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]

Connector 1: 1 Connector 2: 3 Connector 3: 2 [ BoardPro BoardProG2 ]

1 [ RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board ]

## xConfiguration Video Input Connector [n] CameraControl Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define whether the camera on this video input connector can be controlled or not. Some connectors cannot be controlled (Off is the only available value).

### USAGE:

xConfiguration Video Input Connector [n] CameraControl Mode: Mode

where

n: Unique ID that identifies the video input connector.

Range: 1..2 [ RoomKit RoomKitMini DeskMini Board ]

Range: 1..3 [ RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2 ]

Range: 1..4 [ RoomKitEQX CodecEQ ]

Range: 1..6 [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]

Mode:

Off/On [ RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]

Connector 1: Off/On Connector 2: Off Connector 3: Off/On [ BoardPro BoardProG2 ]

Connector 1: Off/On Connector 2,3: Off [ RoomBar Room55 DeskPro Desk ]

Connector 1: Off/On Connector 2: Off [ DeskMini ]

Connector 1: Off/On Connector 2: Off [ RoomKit RoomKitMini Board ]

Off: Disable camera control.

On: Enable camera control.

Default value:

On [ CodecPlus Room70/Room55D ]

Connector 1,2,3,4,5: On Connector 6: Off [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]

Connector 1: On Other connectors: Off [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]



## xConfiguration Video Input Connector [n] CEC Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The video input (HDMI) supports Consumer Electronics Control (CEC). When this setting is enabled, information about the connected device (for example device type and device name) is available in the video device status (Video Input Connector[n] ConnectedDevice CEC [n]), provided that the connected device also supports CEC.

If you have Quad Camera, do not switch off CEC on that connector because then there will be no sound on the speakers on the camera. CEC is required for HDMI ARC (Audio Return Channel), which is the channel used for sending audio from the video device to the camera.

### USAGE:

xConfiguration Video Input Connector [n] CEC Mode: Mode

where

n: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 2..2 [RoomKit RoomKitMini DeskMini Board]

Range: 2..3 [RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2]

Mode:

*Off/On* [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]

*Connector 1: On Other connectors: Off/On* [Room70/Room55D]

**Off:** CEC is disabled.

**On:** CEC is enabled.

Default value:

*On*

## xConfiguration Video Input Connector [n] HDCP Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

One of the video device's HDMI inputs can be configured to support HDCP protected content (High-bandwidth Digital Content Protection, version 1.4). This allows customers to re-purpose a video device's screen by connecting devices such as a DVD player, Google ChromeCast, AppleTV, or an HDTV decoder. This type of content cannot be shared while in a call.

When the input connector is set up to support HDCP, the following restrictions apply: You can't share any content from this input while in a call. However, you can share both HDCP protected content and non-protected content locally. You can't take web snapshots of this source.

To be able to show HDCP protected content on the device's screen, also ensure that the Video Output Connector [n] HDCPPolicy configuration is set correctly and that the screen itself supports HDCP.

### USAGE:

xConfiguration Video Input Connector [n] HDCP Mode: Mode

where

n: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 2..3 [Room55 BoardPro BoardProG2]

Mode:

*Connector 1,3: Off, Connector 2: Off/On* [CodecPlus Room70/Room55D]

*Connector 1, 2, 4: Off, Connector 3: Off/On* [RoomKitEQX CodecEQ]

*Connector 1,2,3,4: Off, Connector 5: Off/On* [CodecPro Room70G2 RoomPanorama/Room70Panorama]

*Connector 2: Off, Connector 3: Off/On* [Room55 BoardPro BoardProG2]

**Off:** The video input doesn't support HDCP protected content; it supports only non-protected content.

**On:** The video input supports both HDCP protected content and non-protected content.

Default value:

*Off*

## xConfiguration Video Input Connector [n] InputSourceType

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Select which type of input source is connected to the video input.

If the device has an integrated camera, Connector 1 refers to the integrated camera.

### USAGE:

xConfiguration Video Input Connector [n] InputSourceType: InputSourceType

where

n: Unique ID that identifies the video input connector.

Range: 1..2 [RoomKit RoomKitMini DeskMini Board]

Range: 1..3 [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

InputSourceType:

PC/camera/document\_camera/mediaplayer/whiteboard/other [RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]

Connector 1: camera Other connectors: PC/camera/document\_camera/mediaplayer/whiteboard/other [RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2]

**PC**: Use this when a computer is connected to the video input.

**camera**: Use this when a camera is connected to the video input.

**document\_camera**: Use this when a document camera is connected to the video input.

**mediaplayer**: Use this when a media player is connected to the video input.

**whiteboard**: Use this when a whiteboard camera is connected to the video input.

**other**: Use this when the other options do not match.

Default value:

Connector 1,2,6: camera Connector 3,4,5: PC [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Connector 1: camera Other connectors: PC [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk Board BoardPro BoardProG2]

## xConfiguration Video Input Connector [n] MaxResolution

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Set the preferred maximum resolution for a video input. Any content shared on this input will have this resolution and framerate, or lower. By setting a MaxResolution you can avoid unnecessary upscaling and achieve the exact resolution you intend.

For example, on video inputs that support 4K, you can limit the preferred resolution to avoid automatic 4K upscaling.

### USAGE:

xConfiguration Video Input Connector [n] MaxResolution: MaxResolution

where

n: Unique ID that identifies the video input connector.

Range: 2..2 [RoomKit RoomKitMini RoomBar DeskMini]

Range: 2..3 [RoomBarPro Room55 DeskPro Desk Board BoardPro BoardProG2]

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

MaxResolution:

1920\_1080\_60 [DeskMini Desk]

1920\_1080\_60/3840\_2160\_30 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ Room55 Board]

1920\_1080\_60/3840\_2160\_30/3840\_2160\_60 [DeskPro BoardProG2]

Connector 1,2: 1920\_1080\_60 Other connectors: 1920\_1080\_60/3840\_2160\_30 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Connector 1: 1920\_1080\_60 Other connectors: 1920\_1080\_60/3840\_2160\_30 [CodecPlus Room70/Room55D]

Connector 2: 1920\_1080\_60/3840\_2160\_30/3840\_2160\_60 Connector 3: 1920\_1080\_60/3840\_2160\_30 [BoardPro]

Resolution (width, height) and framerate (w\_h\_f)

Default value:

Connector 1,2: 1920\_1080\_60 Other connectors: 3840\_2160\_30 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Connector 1: 1920\_1080\_60 Other connectors: 3840\_2160\_30 [CodecPlus Room70/Room55D]

1920\_1080\_60 [DeskMini Desk]

3840\_2160\_30 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ Room55 Board]

3840\_2160\_60 [DeskPro BoardProG2]

Connector 2: 3840\_2160\_60 Connector 3: 3840\_2160\_30 [BoardPro]

## xConfiguration Video Input Connector [n] Name

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define a name for the video input connector.

### USAGE:

xConfiguration Video Input Connector [n] Name: "Name"

where

n: Unique ID that identifies the video input connector.

Range: 1..2 [RoomKit RoomKitMini DeskMini Board]

Range: 1..3 [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Name:

String (0, 50)

Name for the video input connector.

Default value:

Connector 1: "Camera 1" Connector 2: "Camera 2" Connector 3: "PC 1 (HDMI)"  
Connector 4: "PC 2 (HDMI)" Connector 5: "PC 3 (HDMI)" Connector 6:  
"Camera 3 (SDI)" [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Connector 1: "Camera" Connector 2: "PC (USB-C)" Connector 3: "PC (HDMI)" [RoomBar BoardPro BoardProG2]

Connector 1: "Camera" Connector 2: "PC (HDMI)" Connector 3: "PC (USB-C)" [RoomBarPro]

Connector 1: "Camera" Connector 2: "PC 1 (HDMI)" Connector 3: "PC 2 (HDMI)" [CodecPlus Room70/Room55D]

Connector 1: "Camera" Connector 2: "PC 1 (HDMI)" Connector 3: "PC 2 (HDMI)"  
Connector 4: "PC (USB-C)" [RoomKitEQX CodecEQ]

Connector 1: "Camera" Connector 2: "PC 1 (HDMI)" Connector 3: "PC 2 (HDMI)" [Room55]

Connector 1: "Camera" Connector 2: "PC" [RoomKit RoomKitMini Board]

Connector 1: "Camera" Connector 2: "PC (USB-C)" [DeskMini]

Connector 1: "Camera" Connector 2: "PC (USB-C)" Connector 3: "PC (HDMI)" [DeskPro Desk]

## xConfiguration Video Input Connector [n] PreferredResolution

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the preferred screen resolution and refresh rate that the video device advertises to the connected input sources (for example a laptop). The logic for selection of the resolution on the source side will choose this resolution and refresh rate automatically, unless it is overridden manually by the source device (for example the laptop's display configuration software).

Note that larger formats than 1920\_1080\_60 use much more data, and requires a presentation cable (or adapter) that is qualified for at least HDMI 1.4b data rates.

### USAGE:

xConfiguration Video Input Connector [n] PreferredResolution:

PreferredResolution

where

n: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 2..2 [RoomKit RoomKitMini DeskMini Board]

Range: 2..3 [RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2]

PreferredResolution:

Connector 1,2: 1920\_1080\_60 Connector 3,4,5: 1920\_1080\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_30/3840\_1600\_30/3840\_1620\_30/3840\_2160\_30 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Connector 1: 1920\_1080\_60 Other connectors: 1920\_1080\_60/2560\_1440\_60/3840\_0\_2160\_30 [CodecPlus Room70/Room55D]

1920\_1080\_60/2560\_1440\_60/3840\_2160\_30 [RoomKit RoomKitMini Room55 Board]

1920\_1080\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_30/3840\_1600\_30/3840\_1620\_30/3840\_2160\_30 [RoomBar RoomBarPro RoomKitEQX CodecEQ]

1920\_1080\_60/2560\_1440\_60/3840\_2160\_30/3840\_2160\_60 [DeskPro BoardProG2]

1920\_1080\_60 [DeskMini Desk]

Connector 2: 1920\_1080\_60/2560\_1440\_60/3840\_2160\_30/3840\_2160\_60

Connector 3: 1920\_1080\_60/2560\_1440\_60/3840\_2160\_30 [BoardPro]

1920\_1080\_60: The resolution is 1920 x 1080, and the refresh rate is 60 Hz.

2560\_1080\_60: The resolution is 2560 x 1080, and the refresh rate is 60 Hz.

2560\_1440\_60: The resolution is 2560 x 1440, and the refresh rate is 60 Hz.

2880\_1200\_60: The resolution is 2880 x 1200, and the refresh rate is 60 Hz.

3440\_1440\_30: The resolution is 3440 x 1440, and the refresh rate is 30 Hz.

3840\_1600\_30: The resolution is 3840 x 1600, and the refresh rate is 30 Hz.

3840\_1620\_30: The resolution is 3840 x 1620, and the refresh rate is 30 Hz.

**3840\_2160\_30:** The resolution is 3840 x 2160, and the refresh rate is 30 Hz.

**3840\_2160\_60:** The resolution is 3840 x 2160, and the refresh rate is 60 Hz.

Default value:

*1920\_1080\_60 [CodecPro Room70G2 RoomPanorama/Room70Panorama DeskMini Desk]*

*Connector 2: 3840\_2160\_60 Connector 3: 3840\_2160\_30 [BoardPro]*

*Connector 1: 1920\_1080\_60 Other connectors: 3840\_2160\_30 [RoomKitEQX  
CodecEQ]*

*3840\_2160\_30 [RoomBar RoomBarPro]*

*3840\_2160\_60 [DeskPro BoardProG2]*

*1920\_1080\_60 [RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board]*

## xConfiguration Video Input Connector [n] PresentationSelection

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define how the video device will behave when you connect a presentation source to the video input. If the device is in standby mode, it will wake up when you connect a presentation source. Sharing the presentation with the far end requires additional action (select Share on the user interface) except when this setting is set to AutoShare.

For devices with more than one camera: Any input source can be used as a presentation source; usually, the main camera will not be used as a presentation source.

For devices with an integrated camera: The integrated camera is not available as a presentation source.

### USAGE:

xConfiguration Video Input Connector [n] PresentationSelection:  
PresentationSelection

where

*n*: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 2..2 [RoomKit RoomKitMini DeskMini Board]

Range: 2..3 [RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2]

PresentationSelection:

*AutoShare/Desktop/Manual/OnConnect*

**AutoShare:** While in a call, the content on the video input will automatically be presented to the far end as well as on the local screen when you connect the cable, or when the source is activated otherwise (for example when a connected computer wakes up from sleep mode). You do not have to select Share on the user interface. If a presentation source is already connected when you make or answer a call, you have to manually select Share on the user interface.

**Desktop:** The content on the video input will be presented on the screen when you connect the cable, or when the source is activated otherwise (for example when a connected computer wakes up from sleep mode). This applies both when idle and in a call. Also, the content on the video input will stay on the screen when you leave the call, provided that it was the active input at the time of leaving.

**Manual:** The content on the video input will not be presented on the screen until you select Share from the user interface.

**OnConnect:** The content on the video input will be presented on screen when you connect the cable, or when the source is activated otherwise (for example when a connected computer wakes up from sleep mode). Otherwise, the behavior is the same as in manual mode.

Default value:

*Connector 1,2,6: Manual Connector 3,4,5: OnConnect [CodecPro Room70G2]*

*RoomPanorama/Room70Panorama ]*

*Connector 1: Manual Other connectors: OnConnect [CodecPlus Room70/Room55D ]*

*Connector 1,2: Manual Other connectors: OnConnect [RoomKitEQX CodecEQ ]*

*Desktop [DeskPro DeskMini Desk ]*

*OnConnect [RoomKit RoomKitMini RoomBar RoomBarPro Room55 BoardPro BoardProG2 ]*

*AutoShare [Board ]*

## xConfiguration Video Input Connector [n] Quality

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When encoding and transmitting video there is a trade-off between high resolution and high frame rate. For some video sources it is more important to transmit high frame rate than high resolution and vice versa. This setting specifies whether to give priority to high frame rate or to high resolution.

If a Quad Camera, SpeakerTrack 60 camera, or Precision 60 camera is detected by the device this setting is automatically set to Motion. If a user changes this setting manually, it will be set back to Motion after a restart or a camera reconnect.

### USAGE:

xConfiguration Video Input Connector [n] Quality: Quality

where

n: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D ]

Range: 1..4 [RoomKitEQX CodecEQ ]

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama ]

Range: 2..2 [RoomKit RoomKitMini DeskMini Board ]

Range: 2..3 [RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2 ]

Quality:

*Auto/Motion/Sharpness*

**Auto:** As a starting point Auto resolves to Sharpness and the video stream will be encoded accordingly. The device will continuously analyze the incoming video stream, and if motion is detected it will automatically change to encoding for Motion.

**Motion:** Gives the highest possible frame rate. Used when there is a need for higher frame rates, typically when there is motion in the picture.

**Sharpness:** Gives the highest possible resolution. Used when you want the highest quality of detailed images and graphics.

Default value:

*Connector 1,2,6: Motion Connector 3,4,5: Auto [CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

*Connector 1: Motion Other connectors: Auto [CodecPlus Room70/Room55D ]*

*Connector 1,2: Motion Other connectors: Auto [RoomKitEQX CodecEQ ]*

*Auto [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*Connector 2: Motion Other connectors: Auto [RoomBarPro ]*

## xConfiguration Video Input Connector [n] RGBQuantizationRange

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The devices connected to the video input should follow the rules for RGB video quantization range defined in CTA-861. Unfortunately some devices do not follow the standard and this configuration may be used to override the settings to get a perfect image with any source.

### USAGE:

xConfiguration Video Input Connector [n] RGBQuantizationRange:  
RGBQuantizationRange

where

n: Unique ID that identifies the video input connector.

Range: 1..3 [CodecPlus Room70/Room55D]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..5 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Range: 2..2 [RoomKit RoomKitMini DeskMini Board]

Range: 2..3 [RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2]

RGBQuantizationRange:

*Auto/Full/Limited*

**Auto**: RGB quantization range is automatically selected based on video format according to CTA-861-F. CE video formats will use limited quantization range levels. IT video formats will use full quantization range levels.

**Full**: Full quantization range. The R, G, B quantization range includes all code values (0 - 255). This is defined in CTA-861-F.

**Limited**: Limited Quantization Range. R, G, B quantization range that excludes some code values at the extremes (16 - 235). This is defined in CTA-861-F.

Default value:

*Auto*

## xConfiguration Video Input Connector [n] Visibility

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the visibility of the video input connector in the menus and buttons on the user interface.

For devices with an integrated camera: Connector 1 is the device's integrated camera and is not available as a presentation source.

### USAGE:

xConfiguration Video Input Connector [n] Visibility: Visibility

where

n: Unique ID that identifies the video input connector.

Range: 1..2 [RoomKit RoomKitMini DeskMini Board]

Range: 1..3 [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]

Range: 1..4 [RoomKitEQX CodecEQ]

Range: 1..6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]

Visibility:

*Always/IfSignal/Never* [RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]

*Connector 1: Never Other connectors: Always/IfSignal/Never* [RoomKit RoomKitMini RoomBar RoomBarPro DeskPro DeskMini Desk Board BoardPro BoardProG2]

**Always**: The menu selection for the video input connector will always be visible on the user interface.

**IfSignal**: The menu selection for the video input connector will only be visible when something is connected to the video input.

**Never**: The input source is not expected to be used as a presentation source, and will not show up on the user interface.

Default value:

*Connector 1: Never Other connectors: IfSignal* [RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro DeskMini Desk Board BoardPro BoardProG2]

*Connector 1: Never Connector 2: Never Other connectors: IfSignal* [RoomPanorama/Room70Panorama]

*Connector 1: Never Other connectors: Always* [RoomKit RoomKitMini RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D]

## xConfiguration Video Input Miracast Mode

*Applies to: All products*

Requires user role: ADMIN

Miracast allows meeting participants to share content wirelessly from their laptop (Windows or Android) to a video device, without the need for a client. Miracast uses either Wi-Fi Direct to establish a direct network connection from a sending device (typically a meeting participant's laptop) to the video device, or infrastructure, which means using the existing network infrastructure for both signaling (MS-MICE and RTSP) and media. You choose which method to use in the Video Input Miracast Transport setting.

Both methods support only the 2.4 GHz band, and use TCP port 7236 for signaling (RTSP) when establishing the connection. In addition, when the connection is via infrastructure, the MS-MICE protocol uses TCP port 7250. For more information about the MS-MICE protocol, refer to Microsoft's documentation.

When Miracast is turned on, the video device emits a beacon that near-by devices can pick up (range in the order of 100 meter). The broadcast name that appears in the near-by devices' scan lists depends on the configuration. To be sure not to include any PII (personal identifiable information), you can specifically set a broadcast name with the SystemUnit BroadcastName setting. Otherwise, the scan lists will include the Webex DisplayName if the device is registered to the Webex cloud service, and the SystemUnit Name if registered to an on-premises service. If neither of these names are set, the product type (id) will be displayed. When the connection is via infrastructure, the beacon also contains the video device's IP address and hostname.

Because Miracast is using Wi-Fi, it is not supported by non-radio devices. Also, you must remember to connect the Wi-Fi antennas on those products where they are optional. Further, the device must be connected to the network with cable (and have an IP address on the wired network interface).

### USAGE:

xConfiguration Video Input Miracast Mode: Mode

where

Mode:

*Manual/Off/On*

**On:** Miracast is activated, and users can't deactivate it.

**Off:** Miracast is deactivated, and users can't activate it.

**Manual:** Miracast is deactivated by default, but users can toggle it on and off themselves from the settings panel on the device's user interface.

Default value:

*Off*

## xConfiguration Video Input Miracast MaxBitrate

*Applies to: All products*

Requires user role: ADMIN

Set the maximum bitrate for Miracast content between the sending device (for example a laptop) and the local video device. This setting is not for transmission between the local device and far end devices in a meeting.

### USAGE:

xConfiguration Video Input Miracast MaxBitrate: MaxBitrate

where

MaxBitrate:

*Integer (5000..15000)*

The bitrate in kbps.

Default value:

*15000*

## xConfiguration Video Input Miracast Pin Length

*Applies to: All products*

Requires user role: ADMIN

Set the number of digits in the Miracast pin code. Meeting participants must enter this code on their laptop (sending device) when establishing the required Wi-Fi Direct network connection to the video device. The meeting participant must enter the pin code within 30 seconds.

### USAGE:

xConfiguration Video Input Miracast Pin Length: Length

where

Length:

*4/8*

The number of digits in the pin code.

Default value:

*4*

## xConfiguration Video Input Miracast PresentationSelection

*Applies to: All products*

Requires user role: ADMIN

When a Miracast connection is established, the presentation will be shown automatically on the local screen. If the device is in standby mode, it will wake up.

This setting decides whether sharing the presentation with the far end requires additional user action.

### USAGE:

xConfiguration Video Input Miracast PresentationSelection:  
PresentationSelection

where

PresentationSelection:

*AutoShare/OnConnect*

**AutoShare:** There is a 5 second countdown before the presentation is shared automatically with the far end. During the countdown, the user can stop the share from the UI.

**OnConnect:** The presentation will not be shared automatically with the far end. The user must select share (or dismiss) from a pop-up on the UI.

Default value:

*AutoShare*

## xConfiguration Video Input Miracast Quality

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

When encoding and transmitting video there is a trade-off between high resolution and high frame rate. For some content it is more important to transmit high frame rate than high resolution and vice versa. This setting specifies whether to give priority to high frame rate or to high resolution.

This setting doesn't have any effect on content shared locally; only on the signal we send to the far end.

### USAGE:

xConfiguration Video Input Miracast Quality: Quality

where

Quality:

*Auto/Motion/Sharpness*

**Auto:** As a starting point Auto resolves to Sharpness and the video stream will be encoded accordingly. The device will continuously analyze the incoming video stream, and if motion is detected it will automatically change to encoding for Motion.

**Motion:** Gives the highest possible frame rate. Used when there is a need for higher frame rates, typically when there is motion in the picture.

**Sharpness:** Gives the highest possible resolution. Used when you want the highest quality of detailed images and graphics.

Default value:

*Auto*



## xConfiguration Video Input Miracast Transport

*Applies to: All products*

Requires user role: ADMIN

For Miracast sharing, choose whether the media transport between the sending device (for example a laptop) and the video device should be via a Wi-Fi Direct or infrastructure connection.

Only sending devices running Windows 10 v1809 or later support transport via infrastructure. Android devices doesn't support it. The sending device and the video device must be on the same network, or on networks that TCP signaling and UDP media traffic can be routed between. The sending device cannot be on an unencrypted Wi-Fi network.

When the connection is via infrastructure, it's recommended that the network infrastructure provides IPv4 ARP / IPv6 NDP anti-spoofing to prevent man-in-the-middle attacks.

### USAGE:

xConfiguration Video Input Miracast Transport: Transport

where

Transport:

*Auto/Direct/Infrastructure*

**Auto:** Use Infrastructure when possible, otherwise use Wi-Fi Direct.

**Direct:** Share media on a direct network connection from the laptop to the device, using Wi-Fi Direct.

**Infrastructure:** Share media over the company's existing network infrastructure, with signaling over RTSP and MS-MICE (Miracast over Infrastructure Connection Establishment protocol).

Default value:

*Direct*

## xConfiguration Video Monitors

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

A monitor role is assigned to each screen using the Video Output Connector [n] MonitorRole setting. The monitor role decides which layout (call participants and presentation) will appear on the screen that is connected to this output. Screens with the same monitor role will get the same layout; screens with different monitor roles will have different layouts.

The monitor layout mode that is set in the Video Monitors setting should reflect the number of different layouts you want in your room setup. Note that some screens can be reserved for presentations.

### USAGE:

xConfiguration Video Monitors: Monitors

where

Monitors:

*Auto/Single/Dual/DualPresentationOnly [ RoomKit RoomBar CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk BoardPro ]*

*Auto/Single/Dual/DualPresentationOnly/Triple/TriplePresentationOnly [ RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardProG2 ]*

*Auto/TriplePresentationOnly [ RoomPanorama/Room70Panorama ]*

**Auto:** The number of screens connected to the device is automatically detected, and the layout is distributed on the screens according to the monitor role.

**Single:** The layout is shown on the device's screen. If the device has more than one screen, the same layout is shown on all screens.

**Dual:** The layout is distributed on screens with monitor role First and Second. If a presentation is part of the layout, all participants in the call are shown on screens with monitor role First, and the presentation is shown on screens with monitor role Second.

**DualPresentationOnly:** All participants in the call are shown on screens with monitor role First. If a presentation is part of the layout, the presentation is shown on screens with monitor role Second.

**Triple:** The layout is distributed on screens with monitor role First, Second and Third. Screens with monitor role Second are used first, then First, and finally Third. If a presentation is part of the layout, all participants in the call are shown on screens with monitor role First and Second, and the presentation is shown on the screen with monitor role Third.

**TriplePresentationOnly:** All participants in the call are distributed on screens with monitor role First and Second. Screens with monitor role Second are used first, then First. If a presentation is part of the layout, the presentation is shown on the screen with monitor role Third.

Default value:

*Auto*

## xConfiguration Video Output Connector [n] BrightnessMode

Applies to: *DeskPro*

Requires user role: ADMIN, USER

Configure to allow for automatic or manual control of the brightness level on the screen. Connector [1] is the device's integrated screen.

### USAGE:

xConfiguration Video Output Connector [n] BrightnessMode: BrightnessMode

where

n: Unique ID that identifies the video output connector.

Range: 1..1

BrightnessMode:

*Auto/Manual*

**Auto:** Allow for the brightness level of the screen to be set automatically by the device.

**Manual:** Allow for the brightness level of the screen to be set manually by the user.

Default value:

*Auto*

## xConfiguration Video Output Connector [n] CEC Mode

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This video output (HDMI) supports Consumer Electronics Control (CEC).

When this setting is On, the video device will use CEC to set the screen in standby when the device itself enters standby. Likewise the device will wake up the screen when the device itself wakes up from standby.

The active video input on a screen is sometimes changed by a user. When a call is started the device detects if the active video input has been switched to another input on the screen. The device then switches the input back so the device is the active video input source. If the device is not the active input source when the device goes into standby the screen will not be set to standby.

It's a prerequisite that the screen that is connected to the output is CEC compatible and that CEC is enabled on the screen.

Note that the different manufacturers uses different marketing names for CEC, for example Anynet+ (Samsung); Aquos Link (Sharp); BRAVIA Sync (Sony); HDMI-CEC (Hitachi); Kuro Link (Pioneer); CE-Link and Regza Link (Toshiba); RIHD (Onkyo); HDAVI Control, EZ-Sync, VIERA Link (Panasonic); EasyLink (Philips); and NetCommand for HDMI (Mitsubishi).

### USAGE:

xConfiguration Video Output Connector [n] CEC Mode: Mode

where

n: Unique ID that identifies the video output connector.

Range: 1..1 [*RoomKitMini*]

Range: 1..2 [*RoomKit RoomBar CodecPlus*]

Range: 1..3 [*RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..2 [*Room55 DeskPro BoardPro*]

Range: 2..3 [*BoardProG2*]

Range: 2..2 for Room 70 Single; not available for Room 70 Dual [*Room70/Room55D*]

Mode:

*Off/On* [*RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro BoardPro BoardProG2*]

*Room Panorama: On*;

*Room 70 Panorama: Off/On* [*RoomPanorama/Room70Panorama*]

**Off:** CEC is disabled.

**On:** CEC is enabled.

Default value:

*On* [*RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 DeskPro BoardPro BoardProG2*]

*Off* [ [Room70/Room55D](#) [Room70G2](#) ]

*Room Panorama: On ; Room 70 Panorama: Connector 1: Off, Connector 2: Off, Connector 3: On* [ [RoomPanorama/Room70Panorama](#) ]

## xConfiguration Video Output Connector[n] ContentType

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Decide whether to transmit content type information in the video stream.

In most cases, not sending any content type information works best. But if you experience higher latency than expected, you can try setting the content type to Game (lower latency video). However, note that most displays don't check the transmitted content type information.

### USAGE:

xConfiguration Video Output Connector[n] ContentType: ContentType

where

n: Unique ID that identifies the video output connector.

Range: 1..2 [ [RoomKit](#) [RoomBar](#) [CodecPlus](#) ]

Range: Room 70 Singel: 1..1 Room 55 Dual, Room 70 Dual: 1..2 [ [Room70/Room55D](#) ]

Range: 1..3 [ [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

Range: 1..1 [ [RoomKitMini](#) ]

Range: 2..2 [ [Room55](#) [DeskPro](#) [BoardPro](#) ]

Range: 2..3 [ [BoardProG2](#) ]

ContentType:

*Default/Game*

**Default:** Don't transmit any content type information.

**Game:** Transmit content type Game in the video stream.

Default value:

*Default*

## xConfiguration Video Output Connector [n] HDCPPolicy

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Some of the video device's HDMI outputs can be set up to allow transmission of HDCP protected content. For HDCP protected content to be displayed on a screen, of course the screen itself must support HDCP as well.

### USAGE:

xConfiguration Video Output Connector [n] HDCPPolicy: HDCPPolicy

where

n: Unique ID that identifies the video output connector.

Range: 1..2 [ [RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room55](#) [Room70/Room55D](#) [DeskPro](#) [BoardPro](#) ]

Range: 1..3 [ [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardProG2](#) ]

Range: 1..1 [ [RoomKitMini](#) [DeskMini](#) [Desk](#) [Board](#) ]

HDCPPolicy:

*Off* [ [RoomKit](#) [RoomKitMini](#) [Board](#) ]

*Off/On* [ [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) ]

*On* [ [Room55](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) ]

*Connector 1,2: Off/On Connector 3: Off* [ [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

*Connector 1: Off/On Connector 2: Off* [ [CodecPlus](#) [Room70/Room55D](#) ]

*Connector 1:On Connector 2,3: Off* [ [BoardProG2](#) ]

**Off:** HDCP is disabled on the output link. Therefore, the video output allows only non-protected content.

**On:** The video output allows both HDCP (HDCP 1.4 or HDCP 2.2) protected content and non-protected content.

Default value:

*Off* [ [RoomKit](#) [RoomKitMini](#) [Board](#) ]

*On* [ [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [Room55](#) [DeskPro](#) [DeskMini](#) [Desk](#) [BoardPro](#) ]

*Connector 1,2: On Connector 3: Off* [ [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

*Connector 1: On Connector 2: Off* [ [CodecPlus](#) [Room70/Room55D](#) ]

*Connector 1: On Connector 2,3: Off* [ [BoardProG2](#) ]

## xConfiguration Video Output Connector [n] Location HorizontalOffset

Applies to: [RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

HorizontalOffset and VerticalOffset settings are associated with each video output. These settings are used to signal the relative position of the displays that are connected to these outputs.

HorizontalOffset = "0" and VerticalOffset = "0" indicates that the display is positioned in center, both horizontally and vertically. A negative horizontal offset indicates that the monitor is left of center, and a positive horizontal offset indicates that the monitor is right of center. A negative vertical offset indicates that the monitor is below center, and a positive vertical offset indicates that the monitor is above center. The magnitude of the offset indicates how far the display is from center (relative to other displays).

Example: You have two screens side by side. The left screen is on Connector 1 and the right screen on Connector 2. Then the following settings will apply:

Video Output Connector 1 Location: HorizontalOffset = "0", VerticalOffset = "0"

Video Output Connector 2 Location: HorizontalOffset = "1", VerticalOffset = "0"

Example: You have two screens, one below the other. The upper screen is on Connector 1 and the lower screen on Connector 2. Then the following settings will apply:

Video Output Connector 1 Location: HorizontalOffset = "0", VerticalOffset = "0"

Video Output Connector 2 Location: HorizontalOffset = "0", VerticalOffset = "-1"

For Board Pro, Board Pro G2, Desk Pro, and Room 55, the integrated screen (Connector 1) has HorizontalOffset = "0" and VerticalOffset = "0" (implicit, not configurable).

### USAGE:

```
xConfiguration Video Output Connector [n] Location HorizontalOffset:
  "HorizontalOffset"
```

where

*n*: Unique ID that identifies the video output connector.

Range: 1..2 [[RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room70/Room55D](#)]

Range: 1..3 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 2..2 [[Room55](#) [DeskPro](#) [BoardPro](#)]

Range: 2..3 [[BoardProG2](#)]

*HorizontalOffset*:

*String* (1, 12)

The string represents a decimal number between -100.0 and 100.0 (these numbers included). Input strings that complies with the std::stof function in the C++ <string> library are accepted. This means that you can use either decimal notation or E-notation, for example "12", "12.0", "1.2e1", "1.2E1", "-0.12", "-12e-2". Leading whitespace characters are discarded, and the decimal point is "."

Default value:

Connector 1: "-1" Connector 2: "0" Connector 3: "1" [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#)]

Connector 1: "0" Connector 2: "1" Connector 3: "0.5" [[RoomPanorama/Room70Panorama](#)]

Connector 1: "0" Connector 2: "1" [[RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room70/Room55D](#)]

Connector 2: "1" [[Room55](#) [DeskPro](#)]

Connector 2: "0" [[BoardPro](#)]

Connector 2: "0" Connector 3: "1" [[BoardProG2](#)]

## xConfiguration Video Output Connector [n] Location VerticalOffset

Applies to: [RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

HorizontalOffset and VerticalOffset settings are associated with each video output. These settings are used to signal the relative position of the displays that are connected to these outputs.

HorizontalOffset = "0" and VerticalOffset = "0" indicates that the display is positioned in center, both horizontally and vertically. A negative horizontal offset indicates that the monitor is left of center, and a positive horizontal offset indicates that the monitor is right of center. A negative vertical offset indicates that the monitor is below center, and a positive vertical offset indicates that the monitor is above center. The magnitude of the offset indicates how far the display is from center (relative to other displays).

For Board Pro, Board Pro G2, Desk Pro, and Room 55, the integrated screen (Connector 1) has HorizontalOffset = "0" and VerticalOffset = "0" (implicit, not configurable).

Example: You have two screens side by side. The left screen is on Connector 1 and the right screen on Connector 2. Then the following settings will apply:

Video Output Connector 1 Location: HorizontalOffset = "0", VerticalOffset = "0"

Video Output Connector 2 Location: HorizontalOffset = "1", VerticalOffset = "0"

Example: You have two screens with one below the other. The upper screen is on Connector 1 and the lower screen on Connector 2. Then the following settings will apply:

Video Output Connector 1 Location: HorizontalOffset = "0", VerticalOffset = "0"

Video Output Connector 2 Location: HorizontalOffset = "0", VerticalOffset = "-1"

### USAGE:

```
xConfiguration Video Output Connector [n] Location VerticalOffset:
"VerticalOffset"
```

where

n: Unique ID that identifies the video output connector.

Range: 1..2 [[RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room70/Room55D](#)]

Range: 1..3 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 2..2 [[Room55](#) [DeskPro](#) [BoardPro](#)]

Range: 2..3 [[BoardProG2](#)]

VerticalOffset:

String (1, 12)

The string represents a decimal number between -100.0 and 100.0 (these numbers included). Input strings that complies with the std::stof function in the C++ <string> library are accepted. This means that you can use either decimal notation or E-notation, for example "12", "12.0", "1.2e1", "1.2E1", "-0.12", "-12e-2". Leading whitespace characters are discarded, and the decimal point is ".".

Default value:

Connector n: "0" [[RoomKit](#) [RoomBar](#) [RoomBarPro](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [DeskPro](#) [BoardPro](#) [BoardProG2](#)]

Connector 1, 2: "0" Connector 3: "-1" [[RoomKitEQX](#) [RoomPanorama/Room70Panorama](#)]

## xConfiguration Video Output Connector [n] MonitorRole

Applies to: [RoomKit](#) [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

The monitor role describes which video streams will be shown on the screen connected to this video output. Together the Video Monitors setting and the MonitorRole settings for all outputs define which layout (video streams) will be shown on each screen.

### USAGE:

```
xConfiguration Video Output Connector [n] MonitorRole: MonitorRole
```

where

n: Unique ID that identifies the video output connector.

Range: 1..2 [[RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room70/Room55D](#)]

Range: 1..3 [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)]

Range: 2..2 [[Room55](#) [DeskPro](#) [BoardPro](#)]

Range: 2..3 [[BoardProG2](#)]

Range: 1..1 [[RoomKitMini](#)]

MonitorRole:

[Auto/First/Second/PresentationOnly](#) [[RoomKit](#) [RoomBar](#) [CodecPlus](#) [Room55](#) [Room70/Room55D](#) [DeskPro](#) [BoardPro](#)]

[Auto/First/Second/Third/PresentationOnly/Recorder](#) [[RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardProG2](#)]

**Auto:** The device will detect when a screen is connected, and a monitor role (First, Second, Third) that corresponds with the Video Monitors setting will be assigned automatically.

**First/Second/Third:** Define the role of the screen in a multi-screen setup. In a single-screen setup, there is no difference between First, Second and Third.

**PresentationOnly:** Show presentation video stream if active, and nothing else. Screens/outputs with this monitor role are ignored by the Video Monitors setting.

**Recorder:** Show all participants, including the local main video (self-view). If active, also show the presentation. Screens/outputs with this monitor role are ignored by the Video Monitors setting.

Default value:

[Auto](#) [[RoomKit](#) [RoomBar](#) [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPlus](#) [CodecPro](#) [Room55](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#) [BoardPro](#) [BoardProG2](#)]

[Dual/Connector 1,2: Auto; Single/Connector 1: Auto Connector 2: PresentationOnly](#) [[Room70/Room55D](#)]

## xConfiguration Video Output Connector [n] Resolution

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Set the resolution and refresh rate to be used on an output. If the specified resolution and refresh rate are not supported by the connected screen/display, or this configuration is set to Auto, the output resolution and refresh rate will be the screen's preferred format (as reported in EDID and passed on into the Video Output Connector [n] ConnectedDevice PreferredFormat status.

You always find the actual resolution and framerate that is sent in the Video Output Connector [n] Width, Height, an Refreshrate statuses.

If you choose a resolution that the connected screen doesn't support, the output format will be the screen's preferred format (as reported in EDID and passed on in the Video Output Connector [n] ConnectedDevice PreferredFormat status.

If the device has an integrated screen, Connector [1] refers to this screen.

The formats larger than 1920\_1200\_60 requires use of high quality display cables when connecting an external screen.

Some UHD TVs/displays only enable 3840\_2160\_30 (30 Hz) and not 3840\_2160\_60 (60 Hz) as their default configuration. In such cases the corresponding setting on the TV/display must be reconfigured to allow 3840\_2160\_60 for the HDMI input where the device is connected.

### USAGE:

xConfiguration Video Output Connector [n] Resolution: Resolution

where

n: Unique ID that identifies the video output connector.

Range: 1..1 [RoomKitMini DeskMini Desk Board]

Range: 1..2 [RoomKit RoomBar CodecPlus Room55 Room70/Room55D DeskPro BoardPro]

Range: 1..3 [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardProG2]

Resolution:

Connector 1,2: Auto/1920\_1080\_50/1920\_1080\_60/1920\_1200\_50/1920\_1200\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60/3840\_2160\_30/3840\_2160\_60 Connector 3: Auto/1920\_1080\_50/1920\_1080\_60/1920\_1200\_50/1920\_1200\_60/2560\_1440\_60/3840\_2160\_30 [CodecPro Room70G2]

Connector 1,2: Auto/1920\_1080\_50/1920\_1080\_60/1920\_1200\_50/1920\_1200\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60/3840\_2160\_30/3840\_2160\_60 Connector 3: 3840\_2160\_30 [RoomPanorama/Room70Panorama]

3840\_2160\_60 [Board]

Connector 1: 3840\_2160\_60 Other connectors: Auto/1920\_1080\_50/1920\_1080\_60/1920\_1200\_50/1920\_1200\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60/3840\_2160\_30/3840\_2160\_60 [Room55

DeskPro BoardPro BoardProG2]

1920\_1080\_50 [DeskMini Desk]

Auto/1920\_1080\_50/1920\_1080\_60/1920\_1200\_50/1920\_1200\_60/2560\_1080\_60/2560\_1440\_60/2880\_1200\_60/3440\_1440\_60/3840\_1600\_60/3840\_1620\_60/3840\_2160\_30/3840\_2160\_60 [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room70/Room55D]

**Auto:** The device will automatically try to set the optimal resolution based on negotiation with the connected monitor.

1920\_1080\_50: The resolution is 1920 x 1080, and the refresh rate is 50 Hz.

1920\_1080\_60: The resolution is 1920 x 1080, and the refresh rate is 60 Hz.

1920\_1200\_50: The resolution is 1920 x 1200, and the refresh rate is 50 Hz.

1920\_1200\_60: The resolution is 1920 x 1200, and the refresh rate is 60 Hz.

2560\_1080\_60: The resolution is 2560 x 1080, and the refresh rate is 60 Hz.

2560\_1440\_60: The resolution is 2560 x 1440, and the refresh rate is 60 Hz.

2880\_1200\_60: The resolution is 2880 x 1200, and the refresh rate is 60 Hz.

3440\_1440\_60: The resolution is 3440 x 1440, and the refresh rate is 60 Hz.

3840\_1600\_60: The resolution is 3840 x 1600, and the refresh rate is 60 Hz.

3840\_1620\_60: The resolution is 3840 x 1620, and the refresh rate is 60 Hz.

3840\_2160\_30: The resolution is 3840 x 2160, and the refresh rate is 30 Hz.

3840\_2160\_60: The resolution is 3840 x 2160, and the refresh rate is 60 Hz.

Default value:

3840\_2160\_60 [Board]

1920\_1080\_60 [DeskMini Desk]

Connector 1: 3840\_2160\_60 Other connectors: Auto [Room55 DeskPro BoardPro BoardProG2]

Auto [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2]

Connector 1, 2: Auto; Connector 3: 3840\_2160\_30 [RoomPanorama/Room70Panorama]

## xConfiguration Video Output Connector [n] RGBQuantizationRange

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Connected HDMI displays should follow the rules for RGB video quantization range defined in CTA-861. Unfortunately some displays do not follow the standard and this configuration may be used to override the settings to get a perfect image with any display.

### USAGE:

```
xConfiguration Video Output Connector [n] RGBQuantizationRange:
  RGBQuantizationRange
```

where

n: Unique ID that identifies the video output connector.

Range: 1..1 [*RoomKitMini*]

Range: 1..2 [*RoomKit RoomBar CodecPlus Room70/Room55D*]

Range: 1..3 [*RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*]

Range: 2..2 [*Room55 DeskPro BoardPro*]

Range: 2..3 [*BoardProG2*]

RGBQuantizationRange:

*Auto/Full/Limited*

**Auto:** If the display signals support for "Selectable RGB Quantization Range" in the EDID, then the AVI InfoFrame will signal Full Range in the RGB Quantization Range bits (Q0, Q1). Otherwise Limited Range will be signaled in the AVI InfoFrame for CE video formats and Full Range for IT video formats.

**Full:** Full quantization range. The R, G, B quantization range includes all code values (0 - 255). This is defined in CTA-861-H.

**Limited:** Limited Quantization Range. R, G, B quantization range that excludes some code values at the extremes (16 - 235). This is defined in CTA-861-H.

Default value:

*Full*

## xConfiguration Video Output HDMI Passthrough Allowed

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN

If people connect their laptop to the USB socket of an HDMI-to-USB converter (capturing device) that is connected to one of the device's HDMI outputs, they can use the device's camera and microphone when making calls from their laptop meeting apps. They also need a presentation cable (HDMI) between the laptop and an HDMI input to make use of the device's screen and loudspeakers. This feature is referred to as Call from laptop, Webcam mode, or HDMI passthrough.

Which HDMI output the HDMI-to-USB converter is connected to is set with the Video Output HDMI Passthrough OutputConnector setting. You may also want to check that the Video Monitors and Video Output Connector [n] MonitorRole settings are correct.

Call from laptop is not supported on Room 55 Dual and Room 70 Dual because they don't have an HDMI output available for the converter.

### USAGE:

```
xConfiguration Video Output HDMI Passthrough Allowed: Allowed
```

where

Allowed:

*False/True*

**False:** Disable the feature. Calling from a laptop meeting app is not supported.

**True:** Enable the feature. Calling from a laptop meeting app is supported, and there is a Call from laptop button on the user interface.

Default value:

*False*

## xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Mode

Applies to: *RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

When using the Call from laptop (HDMI passthrough) feature, users must choose (on their laptops) to use the HDMI-to-USB converter (capturing device) as microphone and camera. With this setting you can customize which name will be displayed in the list of devices to choose from.

Refer to the Video Output HDMI Passthrough Allowed setting for more details about Call from laptop. Call from laptop is not supported on Room 55 Dual and Room 70 Dual because they don't have an HDMI output available for the converter.

### USAGE:

xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Mode: Mode

where

Mode:

*Auto/Custom/General*

**Auto:** Display the name that the HDMI-to-USB converter is advertising to the video device. If empty, display a generic name for the HDMI-to-USB converter. You can find the advertised name in the Video Output Connector [n] ConnectedDevice Name status, where n is the HDMI output connector you have connected the HDMI-to-USB converter to.

**General:** Display a generic term as the name of the HDMI-to-USB converter.

**Custom:** Display the name defined in the Video Output Hdmi Passthrough HdmiUsbConverter Name setting as the name of the HDMI-to-USB converter.

Default value:

*General*

## xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Name

Applies to: *RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

If Video Output Hdmi Passthrough HdmiUsbConverter Mode is set to Custom, you must set a name for the HDMI-to-USB converter (capture device) here. This is the name that will show up in the list of devices to choose from when choosing a camera and microphone from the laptop.

This setting is not available for Room 55 Dual and Room 70 Dual because they don't have an HDMI output available for the converter.

### USAGE:

xConfiguration Video Output HDMI Passthrough HdmiUsbConverter Name: "Name"

where

Name:

*String (0, 25)*

The name of the HDMI-to-USB converter.

Default value:

*""*



## xConfiguration Video Output HDMI Passthrough OutputConnector

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Set the HDMI output connector you have connected the HDMI-to-USB converter (capture device) to. By default, the device is set up to use the HDMI output with the highest number. This setting only applies when Call from laptop is enabled, that is, Video Output HDMI Passthrough Allowed is set to True.

This setting is not available for Room 55 Dual and Room 70 Dual because they don't have an HDMI output available for the converter.

### USAGE:

xConfiguration Video Output HDMI Passthrough OutputConnector: OutputConnector  
where

OutputConnector:

*Integer (1..3) [CodecPro]*

*Room 70 Dual G2: Integer (3..3) Room 70 Single G2: Integer (2..3) [Room70G2]*

*Integer (1..2) [RoomKit CodecPlus]*

*Integer (1..1) [Room55]*

*Room 70 Single: Integer (2..2) [Room70/Room55D]*

**Range:** The unique identifier of the selected video output connector.

Default value:

*3 [CodecPro Room70G2]*

*2 [RoomKit CodecPlus Room70/Room55D]*

*1 [Room55]*

## xConfiguration Video Output HDMI Passthrough AutoDisconnect Enabled

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Decide whether the device shall automatically disconnect the HDMI Passthrough after a given delay, for example if the user forgets to disconnect from the touch controller. The delay is set with the Video Output HDMI Passthrough AutoDisconnect Delay.

Refer to the Video Output HDMI Passthrough Allowed setting for more information about HDMI passthrough and the Call from laptop feature. Call from laptop is not supported on Room 55 Dual and Room 70 Dual.

### USAGE:

xConfiguration Video Output HDMI Passthrough AutoDisconnect Enabled: Enabled  
where

Enabled:

*False/True*

**False:** HDMI Passthrough will not be disconnected automatically; the user must always disconnect from the touch controller.

**True:** HDMI Passthrough will disconnect when the Video Output HDMI Passthrough AutoDisconnect Delay times out.

Default value:

*True*

## xConfiguration Video Output HDMI Passthrough AutoDisconnect Delay

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Set how long (minutes) the device shall be in HDMI Passthrough mode before it disconnects automatically. This setting only has an effect when Video Output HDMI Passthrough AutoDisconnect Enabled is set to True.

Refer to the Video Output HDMI Passthrough Allowed setting for more information about HDMI passthrough and the Call from laptop feature. Call from laptop is not supported on Room 55 Dual and Room 70 Dual.

### USAGE:

xConfiguration Video Output HDMI Passthrough AutoDisconnect Delay: Delay  
where

Delay:

*Integer (1..1440)*

The delay measured in minutes.

Default value:

*120*

## xConfiguration Video Output MirroringType

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting decides on which screen(s) local content is displayed when the device is not in a call.

### USAGE:

xConfiguration Video Output MirroringType: MirroringType

where

MirroringType:

*LastOnly/Mirror/Multiscreen*

**LastOnly:** Local content will be shown only on the last available screen. It will not be duplicated to any other screen. An available screen is a screen that is showing the home screen or nothing.

**Mirror:** Local content will be mirrored onto all available screens. When connecting a new source, the previous source will be replaced on all screens.

**Multiscreen:** Local content will be dispersed across all available screens. The first source you connect will be mirrored on all available screens. The next source you connect will leave one screen for the previous source (if available), and so on.

Default value:

*Multiscreen [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskMini Desk Board BoardPro BoardProG2 ]*

*LastOnly [ DeskPro ]*

## xConfiguration Video Output Webcam USBMode

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Specify whether to enter USB mode (and also do-not-disturb mode) when you connect video or when you start streaming video.

### USAGE:

xConfiguration Video Output Webcam USBMode: USBMode

where

USBMode:

*OnConnect/OnStreaming*

**OnConnect:** Go into USB mode when you connect video.

**OnStreaming:** Go into USB mode when you start streaming video.

Default value:

*OnStreaming*

## xConfiguration Video Presentation DefaultSource

*Applies to: All products*

Requires user role: ADMIN, USER

Define which video input source to use as a default presentation source. This setting may be used by the API and third-party user interfaces. It is not relevant when using the user interfaces provided by Cisco.

### USAGE:

xConfiguration Video Presentation DefaultSource: DefaultSource

where

DefaultSource:

*1/2 [ RoomKit RoomKitMini DeskMini Board ]*

*1/2/3 [ RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2 ]*

*1/2/3/4 [ RoomKitEQX CodecEQ ]*

*1/2/3/4/5/6 [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

The video input source to use as default presentation source.

Default value:

*2 [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*3 [ CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

## xConfiguration Video Presentation Priority

*Applies to: All products*

Requires user role: ADMIN

Specify how to distribute the bandwidth between the presentation channel and the main video channel. This setting applies only to SIP and H.323 calls.

### USAGE:

xConfiguration Video Presentation Priority: Priority

where

Priority:

*Equal/High/Low [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus  
CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*Equal [ RoomPanorama/Room70Panorama ]*

**Equal:** The available bandwidth is shared equally between the presentation channel and the main video channel.

**High:** The presentation channel is assigned a larger portion of the available bandwidth at the expense of the main video channel.

**Low:** The main video channel is assigned a larger portion of the available bandwidth at the expense of the presentation channel.

Default value:

*Equal*

## xConfiguration Video Selfview Default FullscreenMode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define if the main video source (self-view) shall be shown in full screen or as a small picture-in-picture (PiP) after a call. The setting only takes effect when self-view is switched on (see the Video Selfview Default Mode setting).

For Desk and Desk Pro, if you use the user interface to turn full screen self-view off, it will come back as a PiP the next time that you use the user interface to turn it on.

### USAGE:

xConfiguration Video Selfview Default FullscreenMode: FullscreenMode

where

FullscreenMode:

*Off/Current/On*

**Off:** Self-view will be shown as a PiP.

**Current:** The size of the self-view picture will be kept unchanged when leaving a call. That is, if it was a PiP during the call, it remains a PiP after the call; if it was fullscreen during the call, it remains fullscreen after the call.

**On:** The self-view picture will be shown in fullscreen.

Default value:

*Current*

## xConfiguration Video Selfview Default Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Specify if the main video source (self-view) shall be displayed on screen outside of call. Whether it's on or off during call setup and throughout the call, is given by the Video Selfview OnCall Mode.

The position and size of the self-view window is determined by the Video Selfview Default PIPPosition and the Video Selfview Default FullscreenMode settings respectively.

### USAGE:

xConfiguration Video Selfview Default Mode: Mode

where

Mode:

*Auto/Current/Off/On*

**Auto:** Self-view is always off outside of call.

**Current:** Self-view is left as is. That is, if it was on during the call, it remains on after the call; if it was off during the call, it remains off after the call.

**Off:** Self-view is always off outside of call.

**On:** Self-view is always on outside of call.

Default value:

*Auto*

## xConfiguration Video Selfview Default OnMonitorRole

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define which screen/output to display the main video source (self-view) after a call. The value reflects the monitor roles set for the different outputs in the Video Output Connector [n] MonitorRole setting.

The setting applies both when self-view is displayed in full screen, and when it is displayed as picture-in-picture (PiP).

### USAGE:

xConfiguration Video Selfview Default OnMonitorRole: OnMonitorRole

where

OnMonitorRole:

*Current/First/Second [ RoomKit RoomKitMini RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

*Current/First/Second/Third [ RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

**Current:** When leaving a call, the self-view picture will be retained on the same output as it was during the call.

**First:** The self-view picture will be shown on outputs with monitor role First.

**Second:** The self-view picture will be shown on outputs with monitor role Second.

**Third:** The self-view picture will be shown on outputs with monitor role Third.

Default value:

*Current*

## xConfiguration Video Selfview Default PIPPosition

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Define the position on screen of the small self-view picture-in-picture (PiP) after a call. The setting only takes effect when self-view is switched on (see the Video Selfview Default Mode setting) and fullscreen view is switched off (see the Video Selfview Default FullscreenMode setting).

### USAGE:

xConfiguration Video Selfview Default PIPPosition: PIPPosition

where

PIPPosition:

*Current/UpperLeft/UpperCenter/UpperRight/CenterLeft/CenterRight/LowerLeft/LowerRight*

**Current:** The position of the self-view PiP will be kept unchanged when leaving a call.

**UpperLeft:** The self-view PiP will appear in the upper left corner of the screen.

**UpperCenter:** The self-view PiP will appear in the upper center position.

**UpperRight:** The self-view PiP will appear in the upper right corner of the screen.

**CenterLeft:** The self-view PiP will appear in the center left position.

**CentreRight:** The self-view PiP will appear in the center right position.

**LowerLeft:** The self-view PiP will appear in the lower left corner of the screen.

**LowerRight:** The self-view PiP will appear in the lower right corner of the screen.

Default value:

*Current [ RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk BoardPro BoardProG2 ]*

*LowerRight [ RoomPanorama/Room70Panorama ]*

*Current [ Board ]*

## xConfiguration Video Selfview OnCall Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Specify if self-view shall be visible during call setup and throughout the call. This setting specifies the default behavior; users can at any time turn self-view on and off from the UI during their call. For the next call, the behavior will be as specified in this setting again.

### USAGE:

xConfiguration Video Selfview OnCall Mode: Mode

where

Mode:

*Auto/Current/Off/On*

**Auto:** Self-view is turned on during call setup and remains on for the duration specified in the Video Selfview OnCall Duration setting. If the Video Selfview Default Mode setting is On, self-view will remain on for the entire call.

**Current:** Keeps the self-view as it was before setting up the call.

**Off:** Self-view is not shown during call setup and remains off for the entire call. This applies even if self-view was on before starting the call.

**On:** Self-view is shown during call setup and remains on for the entire call.

Default value:

*Auto*

## xConfiguration Video Selfview OnCall Duration

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This setting only has an effect when the Video Selfview OnCall Mode setting is Auto. In this case, the number of seconds set here determines for how long self-view is shown before it is automatically switched off.

### USAGE:

xConfiguration Video Selfview OnCall Duration: Duration

where

Duration:

*Integer (1..60)*

**Range:** Choose for how long self-view remains on. The valid range is between 1 and 60 seconds.

Default value:

*5*

## VoiceControl configuration

### xConfiguration VoiceControl Wakeword Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Use this setting to enable or disable the wakeword (for example, "Ok Webex") that is used by the Webex Assistant. The Webex Assistant allows you to use the device hands free, and by using the wakeword you can initiate tasks, such as placing a call and starting a presentation.

Use the UserInterface Assistant Mode setting to switch on the Webex Assistant.

#### USAGE:

xConfiguration VoiceControl Wakeword Mode: Mode

where

Mode:

*Off/On*

**Off:** Disable the use of a wakeword.

**On:** Enable the use of a wakeword.

Default value:

*On*

## WebEngine configuration

### xConfiguration WebEngine Certificates RevocationChecks NetworkAccess

*Applies to: All products*

Requires user role: ADMIN

By default, the webengine does not use the network during revocation checks, and thereby is only checking Stapled OCSP responses and built-in CRL lists.

Enabling this configuration causes the webengine to be allowed to go on the network and ask the OCSP and CRL responders in the cases where there is no Stapled OCSP response.

#### USAGE:

xConfiguration WebEngine Certificates RevocationChecks NetworkAccess:  
NetworkAccess

where

NetworkAccess:

*Allow/Deny*

**Allow.** The webengine does not use the network during revocation checks.

**Deny:** The webengine to be allowed to go on the network and ask the OCSP and CRL responders

Default value:

*Allow*

### xConfiguration WebEngine Features AllowDeviceCertificate

*Applies to: All products*

Requires user role: ADMIN

Decide whether the video device and Room Navigator webviews are allowed to trust the video device's self-signed certificate.

#### USAGE:

xConfiguration WebEngine Features AllowDeviceCertificate:  
AllowDeviceCertificate

where

AllowDeviceCertificate:

*False/True*

**False:** Don't trust the video device's self-signed certificate.

**True:** Trust the video device's self-signed certificate

Default value:

*False*

## xConfiguration WebEngine Features GpuRasterization

*Applies to: All products*

Requires user role: ADMIN

Decide whether to allow the webview to offload rasterization of the webpage to the GPU.

### USAGE:

xConfiguration WebEngine Features GpuRasterization: [GpuRasterization](#)

where

[GpuRasterization](#):

*Off/On*

**Off:** The webpage rasterization is done on the CPU.

**On:** The webview may offload rasterization to the GPU.

Default value:

*Off*

## xConfiguration WebEngine Features LocalWebAppManagement

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini DeskBoard BoardPro BoardProG2*

Requires user role: ADMIN

Determines whether to show a list of installed web apps in the Settings menu on the user interface of the device, and whether the user can manage the web apps (add, edit, or delete) from this menu.

Only web apps that are set up directly on the device, from the device's local web interface, or by using the API can be managed from the Settings menu (locally managed). Web apps that are set up from Control Hub (externally managed) are shown in the list, but the user can never manage them.

Web apps are available only on devices with a touch screen (either built-in or connected). A Room Kit Mini must be used with Samsung Flip (Webex on Flip).

### USAGE:

xConfiguration WebEngine Features LocalWebAppManagement:  
[LocalWebAppManagement](#)

where

[LocalWebAppManagement](#):

*Allowed/NotAllowed/Off*

**Allowed:** A user can add, edit, and delete locally managed web apps from the Settings menu on the user interface of the device.

**NotAllowed:** The list of installed web apps is shown in the Settings menu, but the user cannot manage them.

**Off:** There is no entry for listing or managing web apps in the Settings menu.

Default value:

*Off*

## xConfiguration WebEngine Features Peripherals AudioOutput

*Applies to: All products*

Requires user role: ADMIN

Set whether to allow audio playback from the web browser (web engine) on the Room Navigator. For example, to allow playing audio files in a web app.

### USAGE:

xConfiguration WebEngine Features Peripherals AudioOutput: AudioOutput

where

AudioOutput:

*Off/On*

**Off:** Don't allow audio to be played from the Room Navigator web browser.

**On:** Allow audio to be played from the Room Navigator web browser.

Default value:

*Off*

## xConfiguration WebEngine Features Peripherals WebGL

*Applies to: All products*

Requires user role: ADMIN

Set whether to enable WebGL™ in the web browser (web engine) on the Room Navigator. WebGL is a web standard for a low-level 3D graphics.

### USAGE:

xConfiguration WebEngine Features Peripherals WebGL: WebGL

where

WebGL:

*Off/On*

**On:** WebGL is enabled on the Room Navigator web browser.

**Off:** WebGL is disabled on the Room Navigator web browser.

Default value:

*Off*

## xConfiguration WebEngine Features WebGL

*Applies to: All products*

Requires user role: ADMIN

WebGL™ is a web standard for a low-level 3D graphics. WebGL support in RoomOS is an experimental feature and might change in the future.

### USAGE:

xConfiguration WebEngine Features WebGL: WebGL

where

WebGL:

*Off/On*

**On:** WebGL is enabled.

**Off:** WebGL is disabled.

Default value:

*Off*

## xConfiguration WebEngine Features SipUrlHandler

*Applies to: RoomKitMini DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN

This configuration allows you to start SIP calls directly from web view based features (for example, a web app or digital signage). The user selects a button labeled with SIP:yourSipUrl to initiate a call, and the call is then placed by the device.

### USAGE:

xConfiguration WebEngine Features SipUrlHandler: SipUrlHandler

where

SipUrlHandler:

*Off/On*

**Off:** Starting SIP calls from a web view is disabled.

**On:** Starting SIP calls from a web view is enabled.

Default value:

*Off*



## xConfiguration WebEngine Features Xapi Peripherals AllowedHosts Hosts

*Applies to: All products*

Requires user role: ADMIN

If the domain name of the server hosting a persistent web app is listed here, the app is allowed to run API commands on the device. Otherwise, only apps that don't require any communication with the device can run on the Room Navigator.

The URL, specified with UserInterface HomeScreen Peripherals WebApp URL setting, will be checked, and matched against this list of allowed hosts before it's allowed to run API commands on the device.

Note: Persistent web apps are only available on Room Navigators that are paired to the device over the network.

### USAGE:

```
xConfiguration WebEngine Features Xapi Peripherals AllowedHosts Hosts:
  "Hosts"
```

where

Hosts:

*String (0, 1024)*

Specify one or more domain names. If more than one, separate them by comma. You can use the "\*" as a wildcard. For example, "\*.cisco.com" allows any host ending in cisco.com. To allow any domain, specify "\*".

Default value:

""

## xConfiguration WebEngine MinimumTLSVersion

*Applies to: All products*

Requires user role: ADMIN

Set the lowest version of the TLS (Transport Layer Security) protocol that is allowed for WebEngine.

### USAGE:

```
xConfiguration WebEngine MinimumTLSVersion: MinimumTLSVersion
where
```

MinimumTLSVersion:

*TLSv1.0/TLSv1.1/TLSv1.2/TLSv1.3*

**TLSv1.0:** Support of TLS version 1.0 or higher.

**TLSv1.1:** Support of TLS version 1.1 or higher.

**TLSv1.2:** Support of TLS version 1.2 or higher.

**TLSv1.3:** Support of TLS version 1.3 or higher.

Default value:

*TLSv1.1*

## xConfiguration WebEngine Mode

*Applies to: All products*

Requires user role: ADMIN

The web engine is a prerequisite for features that use the device's web view, for example digital signage and web apps.

### USAGE:

```
xConfiguration WebEngine Mode: Mode
```

where

Mode:

*Off/On*

**Off:** The web engine is disabled.

**On:** The web engine is enabled.

Default value:

*Off*

## xConfiguration WebEngine RemoteDebugging

*Applies to: All products*

Requires user role: ADMIN

If you encounter a problem with a web page, it can be a good idea to turn on remote debugging. Remote debugging lets you access the Chrome developer console and identify potential issues with a web page. When enabled, a banner is displayed at the bottom of the screen, warning the users that they may be monitored. The banner also shows the URL that you can enter in your local Chrome browser to open the developer console.

Make sure to turn off remote debugging after use.

### USAGE:

xConfiguration WebEngine RemoteDebugging: RemoteDebugging

where

RemoteDebugging:

*Off/On*

**Off:** Remote debugging is switched off.

**On:** Remote debugging is switched on.

Default value:

*Off*

## xConfiguration WebEngine UseHttpProxy

*Applies to: All products*

Requires user role: ADMIN

There are several UseHttpProxy settings that specify if a service shall communicate via an HTTP proxy or not. The WebEngine UseHttpProxy setting applies to all web view based features, such as digital signage, API-driven web views, and web apps.

For this setting to have any effect, a proxy server for HTTP, HTTPS, and WebSocket traffic must be set up using the NetworkServices HTTP Proxy settings.

### USAGE:

xConfiguration WebEngine UseHttpProxy: UseHttpProxy

where

UseHttpProxy:

*Off/On*

**Off:** Set up communication directly with the server (not using a proxy).

**On:** Set up communication via proxy.

Default value:

*On*

## Webex configuration

### xConfiguration Webex CloudProximity GuestShare

*Applies to: All products*

Requires user role: ADMIN

This setting allows you to turn off the guest share (via devices.webex.com) feature.

### USAGE:

xConfiguration Webex CloudProximity GuestShare: GuestShare

where

GuestShare:

*Auto/Off*

**Auto:** Allow the system to automatically determine whether or not to allow guest sharing. This is currently enabled by default.

**Off:** Turn off the guest share feature.

Default value:

*Auto*

### xConfiguration Webex CloudProximity ManualPairing

*Applies to: All products*

Requires user role: ADMIN

This setting allows you to turn off the manual pairing feature. Manual pairing requires you to first enter a device name or guest pairing code on the client to be paired. Then, to assure that you are in the same room as the device, you must confirm pairing with a pin code that shows up on the device screen.

This setting applies to devices that are registered to the Webex cloud service or linked to Webex Edge for Devices with the Webex optimized experience enabled.

### USAGE:

xConfiguration Webex CloudProximity ManualPairing: ManualPairing

where

ManualPairing:

*Disabled/Enabled*

**Disabled:** The possibility to use manual pairing is turned off. Guest share (refer to the Webex CloudProximity GuestShare setting) is also disabled.

**Enabled:** Manual pairing is enabled.

Default value:

*Enabled*

## xConfiguration Webex CloudUpgrades Mode

*Applies to: All products*

Requires user role: ADMIN

On devices that are registered to an on-premises service and linked to Webex Edge for Devices, you can choose whether to upgrade the software from the on-premises provisioning service or from the Webex cloud service (cloud-managed software upgrade).

With cloud-managed software upgrade the device is upgraded automatically when a new RoomOS software version is available, that is at the same time as cloud registered devices are upgraded. You get the latest updates and bug fixes faster without having to upgrade the device manually.

### USAGE:

xConfiguration Webex CloudUpgrades Mode: Mode

where

Mode:

*Off/On*

**Off:** The device software is not upgraded from the cloud. You must use an on-premises provisioning service, such as CUCM, or rely on manual upgrades.

**On:** The device software is automatically upgraded when a new software version is available in the cloud.

Default value:

*Off*

## xConfiguration Webex Hotdesking DefaultBookingEndTime

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN

This setting applies only to a device that is set up with hot desking capabilities, which implies that it must be in shared mode and registered to the Webex cloud service or linked to Webex Edge for Devices.

Since companies and organizations have different normal working hours, you can configure the time when a booking, by default, should expire. This is just the default time, so the user can specify a different end time when booking the device.

### USAGE:

xConfiguration Webex Hotdesking DefaultBookingEndTime: DefaultBookingEndTime

where

DefaultBookingEndTime:

*Integer (0..24)*

The default booking end time in 24-hour clock notation. Some examples: 0 is 00:00 / 12:00 a.m. – midnight; 12 is 12:00 / 12:00 p.m. – noon; and 17 is 17:00 / 5:00 p.m.

Default value:

*17*

## xConfiguration Webex Meetings HttpProxyForMedia Mode

*Applies to: All products*

Requires user role: ADMIN

This setting applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

You can set up the device to use a proxy server for HTTPS and WebSocket traffic, see the NetworkServices HTTP Proxy settings. If the NetworkServices HTTP Proxy Mode is not turned Off, you can choose whether to use this proxy also for media traffic.

Using a proxy may lead to lower media quality. To keep media quality as good as possible, the proxy needs to support the bitrates that are used by the deployed devices in the environment, and the total round-trip time from the device to the media server should be as low as possible.

### USAGE:

xConfiguration Webex Meetings HttpProxyForMedia Mode: Mode

where

Mode:

*Auto/Off*

**Auto:** Use a proxy server for media traffic, provided that the server is available and set up correctly and the NetworkServices HTTP Proxy Mode is not set to Off.

**Off:** Never use the proxy for media traffic.

Default value:

*Off*

## xConfiguration Webex Meetings JoinProtocol

*Applies to: All products*

Requires user role: ADMIN

Devices that are registered to an on-premises service and linked to Webex Edge for Devices may use the Webex cloud service for calling into Webex meetings. Calling via Webex gives you the full set of native Webex Meetings in-call features, such as advanced mute, cohost, transfer host, and face recognition.

These are the cases when Webex Meetings call routing may be used: When using the Join Webex button, when using the Webex Assistant to join a Personal Room meeting (PMR), and when using the Call button or the Dial API command with a URI with one of the following domains: @webex.com, @\*.webex.com, and @meet.ciscospark.com. Other calls will use the default protocol.

Also, native Webex Meetings call routing requires that the device is enabled for cloud-managed software upgrade, configuration from Control Hub is enabled, and the Conference Multipoint Mode is set to Auto.

### USAGE:

xConfiguration Webex Meetings JoinProtocol: JoinProtocol

where

JoinProtocol:

*SIP/Webex*

**SIP:** The call protocol is SIP.

**Webex:** The call protocol is Webex, provided that the requirements above are met. Otherwise, it is SIP.

Default value:

*SIP*

## xConfiguration Webex Meetings MeetingChatNotifications Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Decide how the chat notifications, by default, are displayed on the screen. You can use the UI or the Conference MeetingChatNotification Default command to change the mode both during meetings and between meetings.

Shared devices will return to the default behavior set here after every meeting. Personal devices will remember its current mode and keep it until changed from the UI or by using the commands.

For more information about chat notifications, refer to the Webex Meetings MeetingChatPreview setting.

### USAGE:

xConfiguration Webex Meetings MeetingChatNotifications Mode: Mode

where

Mode:

*Disabled/Focused/Preview*

**Disabled:** You don't get any chat notifications on the device's screen.

**Focused:** You are notified on the device's screen that there are in-meeting messages. The notification is only shown when the first message is sent. This mode removes distractions from the meeting and may be suitable for larger meetings.

**Preview:** You get a notification preview on the device's screen for every new message that is sent. This is suitable if you want to keep up with the meeting chat.

Default value:

*Preview*

## xConfiguration Webex Meetings MeetingChatPreview

*Applies to: All products*

Requires user role: ADMIN

Set whether to allow meeting messages (chat) to pop up in a notification on the device's screen during a meeting. This lets the device users see what's happening in the chat.

Individual meeting chat notifications remain on screen for 8 seconds. If there is a queue of messages sent around the same time, then they will show for a slightly shorter time of 5 seconds to avoid a big build-up of messages. A chat notification contains a maximum of three lines of text.

Chat notifications are only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

xConfiguration Webex Meetings MeetingChatPreview: MeetingChatPreview

where

MeetingChatPreview:

*False/True*

**False:** Meeting chat notifications are not available on the device.

**True:** Meeting chat notifications are available on the device. You can decide whether to display them on the device's screen from the UI or by using the Conference MeetingChatNotification commands.

Default value:

*False*

## WebRTC configuration

### xConfiguration WebRTC Provider MicrosoftTeams CompatibilityMode

*Applies to: RoomKit RoomKitMini RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Board*

Requires user role: ADMIN

An option that can be applied temporarily for intermittent troubleshooting of Microsoft Teams calls using WebRTC. Cisco TAC can advise when to set this configuration. The recommendation is otherwise to leave it off.

#### USAGE:

```
xConfiguration WebRTC Provider MicrosoftTeams CompatibilityMode:
```

```
CompatibilityMode
```

where

```
CompatibilityMode:
```

```
Off/On
```

**Off:** Compatibility mode is turned off.

**On:** Compatibility mode is turned on.

Default value:

```
Off
```

## Zoom configuration

### xConfiguration Zoom DefaultDomain

*Applies to: All products*

Requires user role: ADMIN

The domain that you enter here is used by the Zoom Join command; hence it's also used when you tap the Zoom button on the device UI. If the Zoom Join command fetches join information from a booking (BookingID), the domain entered here is ignored.

#### USAGE:

```
xConfiguration Zoom DefaultDomain: "DefaultDomain"
```

where

```
DefaultDomain:
```

```
String (1, 256)
```

The domain to use for Zoom calls.

Default value:

```
zoomcrc.com
```

### xConfiguration Zoom DialStringOptions

*Applies to: All products*

Requires user role: ADMIN

The dial string options that you enter here are used by the Zoom Join command; hence they're also used when you tap the Zoom button on the device UI. Amongst other, options for dual-screen and other visual features are available. Read more about Zoom's dial string options at "<https://support.zoom.us/hc/en-us/articles/202405539-SIP-H-323-Room-Connector-Dial-Strings>".

If the Zoom Join command fetches join information from a booking (BookingID), and the fetched uri has a format other than <meetingid>@<domain>, the dial string options entered here are ignored.

#### USAGE:

```
xConfiguration Zoom DialStringOptions: "DialStringOptions"
```

where

```
DialStringOptions:
```

```
String (0, 200)
```

The options for the Zoom dial string.

Default value:

```
""
```



## Chapter 4

# xCommand commands



## Description of the xCommand commands

In this chapter, you can find a complete list of all xCommand type commands with parameters.

<b>AirPlay commands</b> .....	273	xCommand Audio LocalOutput DisconnectInput .....	285
xCommand AirPlay KeyEvent Back.....	273	xCommand Audio LocalOutput Ethernet Deregister .....	286
xCommand AirPlay KeyEvent Click.....	273	xCommand Audio LocalOutput Ethernet Register.....	286
xCommand AirPlay KeyEvent Down .....	273	xCommand Audio LocalOutput Remove .....	287
xCommand AirPlay KeyEvent FastForward.....	273	xCommand Audio LocalOutput RemoveConnector .....	287
xCommand AirPlay KeyEvent FastReverse.....	273	xCommand Audio LocalOutput Update.....	288
xCommand AirPlay KeyEvent Left .....	273	xCommand Audio LocalOutput UpdateInputGain .....	289
xCommand AirPlay KeyEvent Play.....	274	xCommand Audio Microphones MusicMode Start.....	289
xCommand AirPlay KeyEvent Right .....	274	xCommand Audio Microphones MusicMode Stop.....	289
xCommand AirPlay KeyEvent Up.....	274	xCommand Audio Microphones Mute.....	289
xCommand AirPlay ResetPairedDevices .....	274	xCommand Audio Microphones NoiseRemoval Activate .....	289
<b>Audio commands</b> .....	275	xCommand Audio Microphones NoiseRemoval Deactivate .....	290
xCommand Audio Diagnostics Advanced Run .....	275	xCommand Audio Microphones Passthrough Start .....	290
xCommand Audio Diagnostics AecReverb Reset.....	276	xCommand Audio Microphones Passthrough Stop .....	290
xCommand Audio Diagnostics AecReverb Run.....	276	xCommand Audio Microphones ToggleMute .....	290
xCommand Audio Diagnostics MeasureDelay .....	276	xCommand Audio Microphones Unmute.....	291
xCommand Audio Equalizer List.....	277	xCommand Audio RemoteOutput ConnectInput.....	291
xCommand Audio Equalizer Update .....	277	xCommand Audio RemoteOutput DisconnectInput.....	291
xCommand Audio LocalInput Add.....	278	xCommand Audio RemoteOutput UpdateInputGain.....	292
xCommand Audio LocalInput AddConnector.....	279	xCommand Audio Select.....	292
xCommand Audio LocalInput Remove .....	280	xCommand Audio Setup Clear .....	292
xCommand Audio LocalInput RemoveConnector .....	280	xCommand Audio Setup Reset .....	292
xCommand Audio LocalInput Update.....	281	xCommand Audio Sound Play.....	293
xCommand Audio LocalInput Ethernet Deregister .....	282	xCommand Audio Sound Stop .....	293
xCommand Audio LocalInput Ethernet PacketStatisticsReset .....	282	xCommand Audio SpeakerCheck .....	293
xCommand Audio LocalInput Ethernet Register.....	282	xCommand Audio SoundsAndAlerts Ringtone List.....	293
xCommand Audio LocalOutput Add.....	283	xCommand Audio SoundsAndAlerts Ringtone Play.....	294
xCommand Audio LocalOutput AddConnector.....	284	xCommand Audio SoundsAndAlerts Ringtone Stop.....	294
xCommand Audio LocalOutput ConnectInput.....	285	xCommand Audio Volume Decrease.....	294

xCommand Audio Volume Increase .....	295	xCommand Call FarEndMessage Send .....	307
xCommand Audio Volume Mute .....	295	xCommand Call Forward .....	307
xCommand Audio Volume Set.....	295	xCommand Call Hold.....	307
xCommand Audio Volume SetToDefault.....	296	xCommand Call Ignore .....	307
xCommand Audio Volume ToggleMute .....	296	xCommand Call Join.....	308
xCommand Audio Volume Unmute.....	296	xCommand Call Reject .....	308
xCommand Audio VuMeter Start.....	296	xCommand Call Resume .....	308
xCommand Audio VuMeter Stop .....	297	xCommand Call UnattendedTransfer .....	308
xCommand Audio VuMeter StopAll.....	297		
<b>Bluetooth commands.....</b>	<b>298</b>	<b>CallHistory commands.....</b>	<b>309</b>
xCommand Bluetooth Streaming Next .....	298	xCommand CallHistory AcknowledgeAllMissedCalls.....	309
xCommand Bluetooth Streaming Pause.....	298	xCommand CallHistory AcknowledgeMissedCall .....	309
xCommand Bluetooth Streaming Play.....	298	xCommand CallHistory DeleteAll .....	309
xCommand Bluetooth Streaming Previous.....	298	xCommand CallHistory DeleteEntry .....	309
		xCommand CallHistory Get .....	310
		xCommand CallHistory Recents.....	310
<b>Bookings commands.....</b>	<b>299</b>		
xCommand Bookings Book .....	299	<b>Camera commands .....</b>	<b>311</b>
xCommand Bookings Clear .....	299	xCommand Camera InstallationTilt Ramp.....	311
xCommand Bookings Delete .....	299	xCommand Camera PositionReset.....	311
xCommand Bookings Edit .....	300	xCommand Camera PositionSet .....	311
xCommand Bookings Extend .....	300	xCommand Camera Preset Activate .....	312
xCommand Bookings Get.....	300	xCommand Camera Preset ActivateDefaultPosition .....	312
xCommand Bookings List.....	301	xCommand Camera Preset Edit .....	313
xCommand Bookings NotificationSnooze .....	301	xCommand Camera Preset List.....	313
xCommand Bookings Respond .....	301	xCommand Camera Preset Remove .....	313
xCommand Bookings Put .....	302	xCommand Camera Preset Show .....	314
		xCommand Camera Preset Store.....	314
<b>Call commands.....</b>	<b>303</b>	xCommand Camera Ramp .....	315
xCommand Call Accept.....	303	xCommand Camera TriggerAutofocus .....	315
xCommand Call Disconnect .....	303	xCommand Camera TriggerWhitebalance .....	315
xCommand Call DTMFSend.....	303		
xCommand Call FarEndControl Camera Move.....	304	<b>Cameras commands.....</b>	<b>316</b>
xCommand Call FarEndControl Camera Stop .....	304	xCommand Cameras AutoFocus Diagnostics Start .....	316
xCommand Call FarEndControl RequestCapabilities .....	305	xCommand Cameras AutoFocus Diagnostics Stop.....	316
xCommand Call FarEndControl RoomPreset Activate.....	305	xCommand Cameras Background Clear .....	316
xCommand Call FarEndControl RoomPreset Store.....	306	xCommand Cameras Background Delete .....	316
xCommand Call FarEndControl Source Select.....	306	xCommand Cameras Background Fetch.....	316

xCommand Cameras Background ForegroundParameters Reset .....	317	xCommand Conference LowerAllHands .....	325
xCommand Cameras Background ForegroundParameters Set .....	317	xCommand Conference MeetingAssistant Start .....	326
xCommand Cameras Background Get .....	318	xCommand Conference MeetingAssistant Stop .....	326
xCommand Cameras Background List .....	318	xCommand Conference MuteAll .....	326
xCommand Cameras Background Set .....	318	xCommand Conference MuteOnEntry.....	327
xCommand Cameras Background Upload .....	319	xCommand Conference Participant Add.....	327
xCommand Cameras PresenterTrack ClearPosition.....	319	xCommand Conference Participant Admit.....	328
xCommand Cameras PresenterTrack Set.....	319	xCommand Conference Participant Disconnect.....	328
xCommand Cameras PresenterTrack StorePosition .....	320	xCommand Conference Participant LowerHand.....	328
xCommand Cameras SpeakerTrack Activate .....	320	xCommand Conference Participant MoveToLobby .....	329
xCommand Cameras SpeakerTrack Deactivate .....	320	xCommand Conference Participant Mute .....	329
xCommand Cameras SpeakerTrack Calibration Diagnostics Start .....	320	xCommand Conference ParticipantList Search .....	330
xCommand Cameras SpeakerTrack Calibration Diagnostics Stop.....	320	xCommand Conference PeopleFocus Activate.....	330
xCommand Cameras SpeakerTrack BackgroundMode Activate.....	320	xCommand Conference PeopleFocus Deactivate.....	330
xCommand Cameras SpeakerTrack BackgroundMode Deactivate.....	320	xCommand Conference Reaction Disable.....	330
xCommand Cameras SpeakerTrack Diagnostics Start.....	321	xCommand Conference Reaction Enable.....	331
xCommand Cameras SpeakerTrack Diagnostics Stop.....	321	xCommand Conference Reaction Send .....	331
xCommand Cameras SpeakerTrack Frames Activate .....	321	xCommand Conference Recording Pause .....	331
xCommand Cameras SpeakerTrack Frames Deactivate .....	321	xCommand Conference Recording Resume .....	331
xCommand Cameras SpeakerTrack ViewLimits Activate.....	321	xCommand Conference Recording Start .....	332
xCommand Cameras SpeakerTrack ViewLimits Deactivate.....	322	xCommand Conference Recording Stop.....	332
xCommand Cameras SpeakerTrack ViewLimits StorePosition .....	322	xCommand Conference SendEmailInvitation .....	332
xCommand Cameras SpeakerTrack Whiteboard ActivatePosition.....	322	xCommand Conference SkinTone .....	332
xCommand Cameras SpeakerTrack Whiteboard AlignPosition.....	322	xCommand Conference Participant TransferRole.....	333
xCommand Cameras SpeakerTrack Whiteboard SetDistance .....	322	xCommand Conference SimultaneousInterpretation SelectLanguage.....	333
xCommand Cameras SpeakerTrack Whiteboard StorePosition .....	322	xCommand Conference SimultaneousInterpretation SetMixer.....	334
<b>Conference commands .....</b>	<b>323</b>	xCommand Conference SpeakerLock Release.....	334
xCommand Conference AdmitAll.....	323	xCommand Conference SpeakerLock Set .....	334
xCommand Conference Call AuthenticationResponse .....	323	xCommand Conference TransferHostAndLeave.....	334
xCommand Conference DoNotDisturb Activate.....	324	<b>Diagnostics commands .....</b>	<b>335</b>
xCommand Conference DoNotDisturb Deactivate.....	324	xCommand Diagnostics Run .....	335
xCommand Conference EndMeeting .....	324	<b>Dial commands.....</b>	<b>335</b>
xCommand Conference Hand Lower .....	324	xCommand Dial .....	335
xCommand Conference Hand Raise .....	325		
xCommand Conference HardMute.....	325		
xCommand Conference Lock.....	325		

<b>GPIO commands</b> .....	336	<b>xCommand Macros Runtime Status</b> .....	348
xCommand GPIO ManualState Set.....	336	<b>xCommand Macros Runtime Stop</b> .....	348
<b>HttpClient commands</b> .....	337	<b>Message commands</b> .....	348
xCommand HttpClient Allow Hostname Add .....	337	xCommand Message Send .....	348
xCommand HttpClient Allow Hostname Clear.....	337	<b>MicrosoftTeams commands</b> .....	349
xCommand HttpClient Allow Hostname List .....	337	xCommand MicrosoftTeams Install .....	349
xCommand HttpClient Allow Hostname Remove.....	337	xCommand MicrosoftTeams List.....	349
xCommand HttpClient Delete.....	338	xCommand MicrosoftTeams Reset.....	349
xCommand HttpClient Get .....	339	xCommand MicrosoftTeams SoftwareUpgrade .....	349
xCommand HttpClient Patch .....	340	<b>Network commands</b> .....	350
xCommand HttpClient Post .....	341	xCommand Network SMTP VerifyConfig .....	350
xCommand HttpClient Put.....	342	xCommand Network SNMP USM User Add.....	350
<b>HttpFeedback commands</b> .....	343	xCommand Network SNMP USM User Delete .....	351
xCommand HttpFeedback Deregister.....	343	xCommand Network SNMP USM User List.....	351
xCommand HttpFeedback Enable .....	343	xCommand Network Wifi Configure.....	351
xCommand HttpFeedback Register .....	343	xCommand Network Wifi Delete .....	352
<b>Logging commands</b> .....	344	xCommand Network Wifi List.....	352
xCommand Logging AddEvent.....	344	xCommand Network Wifi Scan Start.....	352
xCommand Logging ExtendedLogging Start .....	344	xCommand Network Wifi Scan Stop.....	352
xCommand Logging ExtendedLogging Stop.....	345	<b>Peripherals commands</b> .....	353
xCommand Logging SendLogs .....	345	xCommand Peripherals Connect.....	353
<b>Macros commands</b> .....	345	xCommand Peripherals DeviceManagement Disable .....	353
xCommand Macros Log Clear.....	345	xCommand Peripherals DeviceManagement Enable .....	354
xCommand Macros Log Get.....	345	xCommand Peripherals HeartBeat.....	354
xCommand Macros Macro Activate .....	345	xCommand Peripherals List.....	354
xCommand Macros Macro Deactivate .....	346	xCommand Peripherals Pairing PinPairing Start .....	355
xCommand Macros Macro Get.....	346	xCommand Peripherals Pairing PinPairing Stop.....	355
xCommand Macros Macro Remove .....	346	xCommand Peripherals Pairing Unpair.....	355
xCommand Macros Macro RemoveAll .....	346	xCommand Peripherals Purge.....	355
xCommand Macros Macro Rename .....	347	xCommand Peripherals TouchPanel Configure.....	356
xCommand Macros Macro Roles Set .....	347	xCommand Peripherals UserManagement User Add.....	356
xCommand Macros Macro Save .....	347	xCommand Peripherals UserManagement User Delete.....	357
xCommand Macros Runtime Restart.....	347	xCommand Peripherals UserManagement User Get .....	357
xCommand Macros Runtime Start .....	347	xCommand Peripherals UserManagement User List.....	358

xCommand Peripherals UserManagement User Modify .....	358	xCommand RoomPreset Clear .....	370
xCommand Peripherals UserManagement User Passphrase Set .....	359	xCommand RoomPreset Store .....	370
xCommand Peripherals UserManagement User Unblock .....	359		
<b>Phonebook commands</b> .....	<b>360</b>	<b>Security commands</b> .....	<b>371</b>
xCommand Phonebook Contact Add .....	360	xCommand Security Certificates CA Add .....	371
xCommand Phonebook Contact Delete .....	360	xCommand Security Certificates CA Delete .....	371
xCommand Phonebook Contact Modify .....	361	xCommand Security Certificates CA Show .....	371
xCommand Phonebook ContactMethod Add .....	361	xCommand Security Certificates CSR Create .....	371
xCommand Phonebook ContactMethod Delete .....	362	xCommand Security Certificates CSR Link .....	371
xCommand Phonebook ContactMethod Modify .....	362	xCommand Security Certificates CUCM CTL Delete .....	371
xCommand Phonebook Folder Add .....	363	xCommand Security Certificates CUCM CTL Show .....	372
xCommand Phonebook Folder Delete .....	363	xCommand Security Certificates CUCM ITL Show .....	372
xCommand Phonebook Folder Modify .....	363	xCommand Security Certificates CUCM MIC Show .....	372
xCommand Phonebook Search .....	364	xCommand Security Certificates Services Activate .....	372
<b>Presentation commands</b> .....	<b>365</b>	xCommand Security Certificates Services Add .....	373
xCommand Presentation Start .....	365	xCommand Security Certificates Services Deactivate .....	373
xCommand Presentation Stop .....	366	xCommand Security Certificates Services Delete .....	373
<b>Provisioning commands</b> .....	<b>366</b>	xCommand Security Certificates Services Show .....	374
xCommand Provisioning CompleteUpgrade .....	366	xCommand Security Certificates ThirdParty Disable .....	374
xCommand Provisioning PostponeUpgrade .....	366	xCommand Security Certificates ThirdParty Enable .....	374
xCommand Provisioning CUCM ExtensionMobility Login .....	367	xCommand Security Certificates ThirdParty List .....	374
xCommand Provisioning CUCM ExtensionMobility Logout .....	367	xCommand Security Certificates ThirdParty Show .....	375
xCommand Provisioning RoomType Activate .....	367	xCommand Security Certificates Webex Show .....	375
xCommand Provisioning Service Fetch .....	368	xCommand Security Certificates WebexIdentity Show .....	376
<b>Proximity commands</b> .....	<b>369</b>	xCommand Security Ciphers List .....	376
xCommand Proximity Services Activate .....	369	xCommand Security ClientSecret Populate .....	376
xCommand Proximity Services Deactivate .....	369	xCommand Security Persistency .....	377
<b>RoomCleanup commands</b> .....	<b>369</b>	xCommand Security Session Get .....	377
xCommand RoomCleanup Cancel .....	369	xCommand Security Session List .....	377
xCommand RoomCleanup Run .....	369	xCommand Security Session Terminate .....	377
<b>RoomPreset commands</b> .....	<b>370</b>	<b>SerialPort commands</b> .....	<b>378</b>
xCommand RoomPreset Activate .....	370	xCommand SerialPort PeripheralControl Send .....	378
		<b>Standby commands</b> .....	<b>379</b>
		xCommand Standby Activate .....	379
		xCommand Standby Deactivate .....	379

xCommand Standby Halfwake .....	379	xCommand UserInterface Extensions Icon Delete .....	388
xCommand Standby ResetHalfwakeTimer .....	379	xCommand UserInterface Extensions Icon DeleteAll .....	388
xCommand Standby ResetTimer .....	379	xCommand UserInterface Extensions Icon Download .....	388
<b>SystemUnit commands.....</b>	<b>380</b>	xCommand UserInterface Extensions Icon Fetch .....	388
xCommand SystemUnit Boot .....	380	xCommand UserInterface Extensions Icon Get.....	389
xCommand SystemUnit DeveloperPreview Activate.....	380	xCommand UserInterface Extensions Icon List.....	389
xCommand SystemUnit DeveloperPreview Deactivate.....	380	xCommand UserInterface Extensions Icon Upload.....	389
xCommand SystemUnit FactoryReset.....	380	xCommand UserInterface Extensions List .....	389
xCommand SystemUnit FirstTimeWizard Stop.....	381	xCommand UserInterface Extensions Panel Clicked .....	389
xCommand SystemUnit Notifications RemoveAll.....	381	xCommand UserInterface Extensions Panel Close .....	390
xCommand SystemUnit OptionKey Add.....	381	xCommand UserInterface Extensions Panel Open .....	390
xCommand SystemUnit OptionKey List.....	381	xCommand UserInterface Extensions Panel Remove .....	390
xCommand SystemUnit OptionKey Remove .....	381	xCommand UserInterface Extensions Panel Save .....	390
xCommand SystemUnit OptionKey RemoveAll .....	382	xCommand UserInterface Extensions Panel Update.....	391
xCommand SystemUnit ProductPlatform Set .....	382	xCommand UserInterface Extensions Set.....	391
xCommand SystemUnit SignInBanner Clear .....	382	xCommand UserInterface Extensions WebApp Save .....	392
xCommand SystemUnit SignInBanner Get.....	382	xCommand UserInterface Extensions WebWidget Remove .....	392
xCommand SystemUnit SignInBanner Set .....	382	xCommand UserInterface Extensions WebWidget Save .....	392
xCommand SystemUnit SoftReset .....	383	xCommand UserInterface Extensions Widget Action .....	393
xCommand SystemUnit SoftwareUpgrade .....	383	xCommand UserInterface Extensions Widget SetValue .....	393
xCommand SystemUnit WelcomeBanner Clear .....	383	xCommand UserInterface Extensions Widget UnsetValue .....	393
xCommand SystemUnit WelcomeBanner Get.....	383	xCommand UserInterface LedControl Color Set.....	393
xCommand SystemUnit WelcomeBanner Set.....	383	xCommand UserInterface Message Alert Clear.....	393
<b>Time commands .....</b>	<b>384</b>	xCommand UserInterface Message Alert Display.....	394
xCommand Time DateTime Get.....	384	xCommand UserInterface Message Prompt Clear.....	394
xCommand Time DateTime Set.....	384	xCommand UserInterface Message Prompt Display.....	395
<b>UserInterface commands .....</b>	<b>384</b>	xCommand UserInterface Message Prompt Response .....	395
xCommand UserInterface Branding Clear.....	384	xCommand UserInterface Message Rating Clear .....	396
xCommand UserInterface Branding Delete.....	384	xCommand UserInterface Message Rating Display .....	396
xCommand UserInterface Branding Fetch .....	385	xCommand UserInterface Message Rating Response.....	397
xCommand UserInterface Branding Get .....	386	xCommand UserInterface Message TextInput Clear.....	397
xCommand UserInterface Branding Updated .....	386	xCommand UserInterface Message TextInput Display .....	397
xCommand UserInterface Branding Upload.....	387	xCommand UserInterface Message TextInput Response .....	398
xCommand UserInterface Extensions Clear.....	387	xCommand UserInterface Message TextLine Clear.....	398
xCommand UserInterface Extensions Export.....	387	xCommand UserInterface Message TextLine Display.....	398
		xCommand UserInterface Presentation ExternalSource Add .....	399
		xCommand UserInterface Presentation ExternalSource List .....	399

xCommand UserInterface Presentation ExternalSource Remove.....	399	xCommand Video CEC Output SendInactiveSourceRequest.....	409
xCommand UserInterface Presentation ExternalSource RemoveAll.....	399	xCommand Video Graphics Clear.....	410
xCommand UserInterface Presentation ExternalSource Select.....	399	xCommand Video Graphics Text Display.....	410
xCommand UserInterface Presentation ExternalSource State Set.....	400	xCommand Video Input MainVideo Mute.....	410
xCommand UserInterface ScreenLock AdminInitiateRecovery.....	400	xCommand Video Input MainVideo Unmute.....	411
xCommand UserInterface Translation Override Clear.....	400	xCommand Video Input SetMainVideoSource.....	411
xCommand UserInterface Translation Override Get.....	400	xCommand Video Layout HideNonVideo Activate.....	412
xCommand UserInterface Translation Override Set.....	401	xCommand Video Layout HideNonVideo Deactivate.....	412
xCommand UserInterface WallpaperBundle Clear.....	401	xCommand Video Layout LayoutFamily Set.....	412
xCommand UserInterface WallpaperBundle List.....	401	xCommand Video Layout SetLayout.....	413
xCommand UserInterface WallpaperBundle Set.....	401	xCommand Video Layout StageParticipants Reset.....	413
xCommand UserInterface WebView Clear.....	402	xCommand Video Layout StageParticipants Set ById.....	413
xCommand UserInterface WebView Display.....	402	xCommand Video Layout StageParticipants Set ByName.....	414
<b>UserManagement commands.....</b>	<b>403</b>	xCommand Video Matrix Assign.....	414
xCommand UserManagement RemoteSupportUser Create.....	403	xCommand Video Matrix Reset.....	415
xCommand UserManagement RemoteSupportUser Delete.....	403	xCommand Video Matrix Swap.....	415
xCommand UserManagement RemoteSupportUser DisablePermanently.....	403	xCommand Video Matrix Unassign.....	415
xCommand UserManagement RemoteSupportUser GetState.....	403	xCommand Video Output HDMI Passthrough Start.....	415
xCommand UserManagement User Add.....	404	xCommand Video Output HDMI Passthrough Stop.....	416
xCommand UserManagement User Delete.....	404	xCommand Video Output Monitor Backlight Set.....	416
xCommand UserManagement User Get.....	404	xCommand Video Output Monitor Color Select.....	416
xCommand UserManagement User List.....	405	xCommand Video Output Monitor Reset.....	416
xCommand UserManagement User Modify.....	405	xCommand Video PresentationPIP Set.....	417
xCommand UserManagement User Passphrase Change.....	406	xCommand Video PresentationView Set.....	417
xCommand UserManagement User Passphrase Set.....	406	xCommand Video Selfview Set.....	417
xCommand UserManagement User Unblock.....	406	<b>WebEngine commands.....</b>	<b>418</b>
<b>UserPresence commands.....</b>	<b>407</b>	xCommand WebEngine AllowInsecureHttps Add.....	418
xCommand UserPresence CustomStatus Clear.....	407	xCommand WebEngine AllowInsecureHttps List.....	418
xCommand UserPresence CustomStatus GetRecentsList.....	407	xCommand WebEngine AllowInsecureHttps Remove.....	418
xCommand UserPresence CustomStatus Set.....	407	xCommand WebEngine AllowInsecureHttps RemoveAll.....	418
<b>Video commands.....</b>	<b>408</b>	xCommand WebEngine DeleteStorage.....	419
xCommand Video ActiveSpeakerPIP Set.....	408	xCommand WebEngine Logging Set.....	419
xCommand Video CEC Input KeyClick.....	408	xCommand WebEngine MediaAccess Add.....	419
xCommand Video CEC Output KeyClick.....	409	xCommand WebEngine MediaAccess List.....	419
xCommand Video CEC Output SendActiveSourceRequest.....	409	xCommand WebEngine MediaAccess Remove.....	420
		xCommand WebEngine MediaAccess RemoveAll.....	420

xCommand WebEngine Tracing Start.....	420
xCommand WebEngine Tracing Stop.....	420
<b>Webex commands.....</b>	<b>421</b>
xCommand Webex Hotdesking SetSupport.....	421
xCommand Webex Join .....	421
xCommand Webex Meetings InstantMeeting Start.....	422
xCommand Webex Registration Cancel.....	422
xCommand Webex Registration ConvertToCloud.....	422
xCommand Webex Registration Logout.....	422
xCommand Webex Registration Start.....	423
<b>WebRTC commands.....</b>	<b>423</b>
xCommand WebRTC Join .....	423
xCommand WebRTC Provider Current Diagnostics Send.....	424
xCommand WebRTC Provider GoogleMeet MeetingNumber Validate .....	424
<b>Whiteboard commands .....</b>	<b>424</b>
xCommand Whiteboard Email Cancel.....	424
xCommand Whiteboard Email Send.....	425
<b>Zoom commands.....</b>	<b>425</b>
xCommand Zoom Join .....	425



## AirPlay commands

### xCommand AirPlay KeyEvent Back

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to navigate back.

#### USAGE:

```
xCommand AirPlay KeyEvent Back
```

### xCommand AirPlay KeyEvent Click

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to select the highlighted item.

#### USAGE:

```
xCommand AirPlay KeyEvent Click
```

### xCommand AirPlay KeyEvent Down

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to navigate down.

#### USAGE:

```
xCommand AirPlay KeyEvent Down
```

### xCommand AirPlay KeyEvent FastForward

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to fast forward playback of audio and video.

#### USAGE:

```
xCommand AirPlay KeyEvent FastForward
```

### xCommand AirPlay KeyEvent FastReverse

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to fast reverse playback of audio and video.

#### USAGE:

```
xCommand AirPlay KeyEvent FastReverse
```

### xCommand AirPlay KeyEvent Left

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to navigate to the left.

#### USAGE:

```
xCommand AirPlay KeyEvent Left
```

## xCommand AirPlay KeyEvent Play

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to start or pause playback of audio and video.

### USAGE:

```
xCommand AirPlay KeyEvent Play
```

## xCommand AirPlay KeyEvent Right

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to navigate to the right.

### USAGE:

```
xCommand AirPlay KeyEvent Right
```

## xCommand AirPlay KeyEvent Up

*Applies to: All products*

Requires user role: ADMIN

If AirPlay is enabled, you can use the AirPlay KeyEvent commands to control audio and video playback, and to navigate the AirPlay menus (AirPlay Remote Control) on the video device. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

Use this command to navigate up.

### USAGE:

```
xCommand AirPlay KeyEvent Up
```

## xCommand AirPlay ResetPairedDevices

*Applies to: All products*

Requires user role: ADMIN

With AirPlay enabled, Apple devices can be paired to the video device to share their screen, collaborate, and playback audio and video content. Refer to the Video Input AirPlay Mode setting on how to enable AirPlay.

If the video device is configured to request a PIN only at the first AirPlay pairing (Video Input AirPlay SecurityMode set to PinFirstTime), which is the default behavior for personal mode devices, you can use this command to force everyone to pair anew with PIN.

### USAGE:

```
xCommand AirPlay ResetPairedDevices
```

## Audio commands

The xCommand Audio LocalInput, xCommand Audio LocalOutput, xCommand Audio RemoteOutput commands are key to advanced audio setups, and they are used by the Audio Console application. The commands and the application are available for the following products: Codec EQ with AVIntegrator option key, Codec Pro, Room 70 G2, Room 70 Panorama, and Room Panorama.

Audio Console provides a graphical interface for the setup and configuration of audio chains. An audio chain consists of physical or logical input connectors that are assigned to one or more input groups, which in turn are connected to one or more output groups, to which physical or logical output connectors may be assigned. The commands listed above define the audio setup, including connection gains, equalization, and mixing modes.

When a call is made, the remote input signal (from the far end) is automatically added to all local output groups. Likewise, all local inputs are automatically added to the remote output groups (to the far end). This behavior may be overridden for local output groups.

xCommands are not persistent over a reboot. Therefore you must use the macro framework to make the audio setup persistent. A macro is automatically generated and activated if you use Audio Console to set up audio.

For more information about macros and Audio Console see the Administrator Guide and Customization Guide for the device.

## xCommand Audio Diagnostics Advanced Run

*Applies to: All products*

Requires user role: ADMIN, USER

This command sends out a noise signal sequentially on all audio output connectors and measures the room impulse response (RIR) between the output and the microphones. If a RIR is detected, the detected number of microphones (input), the detected number of output connectors, and the detected delay between the output and input is reported back.

Example:

```
xCommand Audio Diagnostics Advanced Run Volume: 50 MeasurementLength: 1
```

```
Result returned ->
```

```
OK
```

```
*r AdvancedRunResult (status=OK):
```

```
*r AdvancedRunResult HdmiSpeakersDelay: "100 ms"
```

```
*r AdvancedRunResult NumHdmiSpeakersDetected: 2
```

```
*r AdvancedRunResult NumMicsDetected: 1
```

```
** end
```

### USAGE:

```
xCommand Audio Diagnostics Advanced Run [Channel: Channel]  
[MeasurementLength: MeasurementLength] [Output: Output] [Volume: Volume]
```

where

Channel:

*Integer (0..13)*

The channel number, from left to right, of the selected output.

Default value: 0

MeasurementLength:

*Integer (1..10)*

The length of the measurement in number of seconds. In a noisy environment a longer measurement duration will give a more reliable and robust result.

Default value: 3

Output:

*All/HDMI/Headset/Internal/Line*

The output where the test signal should be directed.

**All:** Measure the RIR on all outputs.

**HDMI:** Measure the room impulse response (RIR) of the device connected to the HDMI output.

**Headset:** Measure the RIR of the headset (only available on video devices that have a headset).

**Internal:** Measure the RIR of the internal loudspeaker (only available on video devices that have an internal loudspeaker).

**Line:** Measure the RIR of the device connected to the Line output (only available on video devices that have a Line output).

Default value: All

Volume:

*Integer (0..50)*

The volume of the test signal. In a noisy environment a higher volume gives more reliable and robust results.

Default value: 20

## xCommand Audio Diagnostics AecReverb Reset

*Applies to: All products*

Requires user role: ADMIN, USER

Reset the acoustic echo cancellation. This command is useful when making changes in the acoustical treatment of the room. All previous adaptations are cleared and a new measurement of the reverberation time is made. This is not allowed during a call.

**USAGE:**

```
xCommand Audio Diagnostics AecReverb Reset
```

## xCommand Audio Diagnostics AecReverb Run

*Applies to: All products*

Requires user role: ADMIN, USER

The command uses the acoustic echo canceller to give an estimate of the reverberation time in the room. This is done transparently, without interrupting the normal operation of the device.

**USAGE:**

```
xCommand Audio Diagnostics AecReverb Run [PlayMusic: PlayMusic]
```

where

PlayMusic:

*Off/On*

When On the command will play some music in order to give the echo canceller a proper signal to adapt to. In some cases, this may give a better estimate of the reverberation time.

Default value: Off

## xCommand Audio Diagnostics MeasureDelay

*Applies to: All products*

Requires user role: ADMIN, USER

This command measures the audio delay/latency in a device that is connected to the video device. A typical use case it to measure the delay in a TV connected to the video device via the HDMI connector. If the delay in a TV is too high, the real-time experience of a video call will be substantially degraded. If the delay is more than 50 ms we recommend the user to find a TV setting that has shorter delay. Typical TV settings that can reduce the delay are: Gaming Mode and PC Mode.

This command will measure the delay between output and input (microphone). This means that if you are using an external acoustic echo canceller or audio mixer, this command will also measure the delay of these devices.

**USAGE:**

```
xCommand Audio Diagnostics MeasureDelay [MeasurementLength: MeasurementLength] [Output: Output] [Volume: Volume]
```

where

MeasurementLength:

*Integer (1..10)*

The length of the measurement in number of seconds. In a noisy environment a longer measurement duration will give a more reliable and robust result.

Default value: 3

Output:

*All/HDMI/Headset/Internal/Line*

**All:** Measure the maximum delay of all outputs.

**HDMI:** Measure the delay of the device connected to the HDMI output.

**Headset:** Measure the delay of the headset (only available on video devices that have a headset).

**Internal:** Measure the delay of the internal loudspeaker (only available on video devices that have an internal loudspeaker).

**Line:** Measure the delay of the device connected to the Line output (only available on video devices that have a Line output).

Default value: All

Volume:

*Integer (0..50)*

The volume of the test signal. In a noisy environment a higher volume gives more reliable and robust results.

Default value: 20

## xCommand Audio Equalizer List

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

This command lists the current equalizer parameters. If no EqualizerId is specified, the command lists all 8 equalizers.

### USAGE:

xCommand Audio Equalizer List [EqualizerId: EqualizerId]

where

EqualizerId:

Integer (1..8)

Each EqualizerId has 6 second-order filter sections with these parameters: FilterType, Frequency, Gain, and Q-value.

## xCommand Audio Equalizer Update

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

There are 8 audio equalizers; each one has 6 adjustable filter sections. Each section is a second-order filter, which can be configured to modify the signal passing through the selected equalizer. This command sets the equalizer parameters for the selected EqualizerId and Section.

Codec EQ: AVIntegrator option required.

### USAGE:

xCommand Audio Equalizer Update [Enabled: Enabled] EqualizerId: EqualizerId  
FilterType: FilterType Frequency: "Frequency" Gain: "Gain" Q: "Q" Section:  
Section

where

Enabled:

False/True

**True:** The modifications set for the section will be applied to the signal.

**False:** No modifications will be applied to the signal.

EqualizerId:

Integer (1..8)

The unique equalizer to which the modified settings apply.

FilterType:

highpass/highshelf/lowpass/lowshelf/none/peaking

The shape of the curve.

**highpass:** Attenuate signals below a given frequency.

**highshelf:** Amplify or attenuate signals above a given frequency.

**lowpass:** Attenuate signals above a given frequency.

**lowshelf:** Amplify or attenuate signals below a given frequency.

**none:** Straight pass through of the signal (the same as Enabled: False).

**peaking:** Amplify or attenuate signals around a given frequency.

Frequency:

String (0, 32)

The frequency in Hertz [Hz] around which the filter is tuned. A number in the range 20 – 20 000.

Gain:

String (0, 32)

The gain in deciBels [dB] applied to either the entire curve or a selected part of the curve, depending on the filtertype. A number in the range -100 to 20.

Q:

String (0, 32)

This describes the "sharpness" of the filter. A lower value means a smoother curve. A number in the range 0.1 to 50.

Section:

*Integer (1..6)*

Each audio equalizer has 6 adjustable filter sections. Each section is a second-order filter, which can be configured to modify the signal passing through the selected equalizer.

## xCommand Audio LocalInput Add

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Create a virtual local input, and generate an identifier for it (InputId). A local input is associated with a set of input connectors, and you can specify the following: a name for the local input, how to mix the signals from the associated input connectors, the use of Automatic Gain Control (AGC) and mute, whether to make a mono or stereo signal, and whether to use direct mode to bypass input processing.

The maximum number of local input modules is 8. You get an error message if you exceed the limit.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalInput Add [InputId: InputId] [Name: "Name"] [AGC: AGC]  
[Channels: Channels] [Direct: Direct] [MixerMode: MixerMode] [Mute: Mute]
```

where

InputId:

*Integer (0..65534)*

A unique identifier for the local input. If you don't specify an InputID, the device will automatically create one for you. We recommend that you specify the InputId yourself in case you must refer to the local input at a later stage.

Name:

*String (0, 255)*

Choose a name that describes the local input. If you don't specify a name, the string will be empty.

AGC:

*On/Off*

**On:** Adjusts the gain continuously to maintain a constant sound level (default).

**Off:** No automatic gain control.

Channels:

*Integer (1..2)*

**1:** Mixes the input signals into a mono signal (default).

**2:** Mixes the input signals into a stereo signal.

Direct:

*On/Off*

**On:** Bypass input processing such as acoustic echo cancellation and noise reduction, regardless of the configuration for each connected input connector. Bypassing the input processing reduces the audio input delay, which is useful when doing local sound reinforcement.

**Off:** All regular input processing is performed, according to the configuration of each connector (default).

MixerMode:

*Auto/Fixed/GainShared*

**Auto:** If one input signal is dominating, the signal on the other connectors are attenuated with 20 dB each.

**Fixed:** The input signals all have the same weight, and consequently they are mixed together with equal gains (default).

**GainShared:** If one or some of the input signals dominate, the rest of the input signals are attenuated by a few dB so that the total gain of the mixed signal remains the same all the time.

Auto and GainShared are intended for the microphone inputs; Fixed is recommended for Line and HDMI inputs.

Mute:

*On/Off*

**On:** Mutes the mix of input signals (default).

**Off:** No muting.

## xCommand Audio LocalInput AddConnector

*Applies to:* RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

Attach an input connector to the local input given by the input ID. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector. A connector can only be attached to one local input.

Run xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalInput AddConnector InputId: InputId ConnectorType: ConnectorType ConnectorId: ConnectorId
```

where

InputId:

*Integer (0..65534)*

The unique identifier of the local input. It was generated when the local input was created with the xCommand Audio LocalInput Add command.

ConnectorType:

*ARC/AirPlay/Ethernet/HDMI/Microphone/USBInterface/WebView [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*AirPlay/Ethernet/HDMI/Microphone/USBC/USBInterface/WebView [RoomKitEQX CodecEQ]*

Select the type of the physical connector, device, or session to receive audio from.

**ARC:** The ARC (Audio Return Channel) on the corresponding HDMI output.

**AirPlay:** An active AirPlay session.

**Ethernet:** An audio device (Cisco Table Microphone Pro / Cisco Microphone Array) on the codec's internal network.

**HDMI:** An HDMI input.

**Microphone:** An analog microphone input.

**USBC:** A USB-C (input).

**USBInterface:** A microphone or audio interface connected to a USB connector.

**WebView:** The embedded web browser.

ConnectorId:

*Integer (1..5) for an HDMI connector; Integer (1..3) for an HDMI connector with ARC (Audio Return Channel); Integer (1..8) for a microphone connector (analog); Integer (1..4) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer (1..1) for AirPlay and USBInterface [CodecPro Room70G2]*

*Integer (1..5) for an HDMI connector; Integer (1..3) for an HDMI connector with ARC (Audio Return Channel); Integer (1..8) for a microphone connector (analog); Integer (1..6) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer*

(1..1) for AirPlay and USBInterface [ [RoomPanorama/Room70Panorama](#) ]

Integer (1..3) for an HDMI connector; Integer (1..3) for a microphone connector (analog); Integer (1..1) for a USB-C connector; Integer (1..8) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer (1..1) for AirPlay and USBInterface [ [RoomKitEQX](#) [CodecEQ](#) ]

Select a connector. The connectors' numbers are printed on the codec connector panel.

## xCommand Audio LocalInput Remove

Applies to: [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN

Remove the local input given by the input ID.

Run xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalInput Remove InputId: InputId
```

where

InputId:

Integer (0..65534)

The unique identifier of the local input. It was generated when the local input was created with the xCommand Audio LocalInput Add command.

## xCommand Audio LocalInput RemoveConnector

Applies to: [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN

Detach an input connector from the local input given by the input ID. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector.

Run xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalInput RemoveConnector InputId: InputId ConnectorType: ConnectorType ConnectorId: ConnectorId
```

where

InputId:

Integer (0..65534)

The unique identifier for the local input. It was generated when the local input was created with the xCommand Audio LocalInput Add command.

ConnectorType:

[ARC/AirPlay/Ethernet/HDMI/Microphone/USBInterface/WebView](#) [ [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) ]

[AirPlay/Ethernet/HDMI/Microphone/USBC/USBInterface/WebView](#) [ [RoomKitEQX](#) [CodecEQ](#) ]

Select the type of the physical connector, device, or session that audio is received from.

**ARC:** The ARC (Audio Return Channel) on the corresponding HDMI output.

**AirPlay:** An active AirPlay session.

**Ethernet:** An audio device (Cisco Table Microphone Pro / Cisco Microphone Array) on the codec's internal network.

**HDMI:** An HDMI input.

**Microphone:** An analog microphone input.

**USBC:** A USB-C (input).

**USBInterface:** A microphone or audio interface connected to a USB connector.

**WebView:** The embedded web browser.

ConnectorId:

Integer (1..5) for an HDMI connector; Integer (1..3) for an HDMI connector with ARC (Audio Return Channel); Integer (1..8) for a microphone connector (analog); Integer (1..4) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer (1..1) for AirPlay and USBInterface [ [CodecPro](#) [Room70G2](#) ]

Integer (1..5) for an HDMI connector; Integer (1..3) for an HDMI connector with ARC (Audio Return Channel); Integer (1..8) for a microphone connector (analog); Integer



(1..6) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer (1..1) for AirPlay and USBInterface [RoomPanorama/Room70Panorama]

Integer (1..3) for an HDMI connector; Integer (1..3) for a microphone connector (analog); Integer (1..1) for a USB-C connector; Integer (1..8) for a digital microphone (Ethernet); Integer (1..8) for WebView connector; Integer (1..1) for AirPlay and USBInterface [RoomKitEQX CodecEQ]

Select a connector. The connectors' numbers are printed on the codec connector panel.

## xCommand Audio LocalInput Update

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

Update the settings of the local input given by the input ID.

Run xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalInput Update InputId: InputId [Name: "Name"] [AGC: AGC]  
[Channels: Channels] [Direct: Direct] [MixerMode: MixerMode] [Mute: Mute]
```

where

InputId:

Integer (0..65534)

The unique identifier for the local input. It was generated when the local input was created with the xCommand Audio LocalInput Add command.

Name:

String (0, 255)

Choose a name that describes the local input.

AGC:

On/Off

**On**: Adjust the gain continuously to maintain a constant sound level).

**Off**: No automatic gain control.

Channels:

Integer (1..2)

**1**: Mix the input signals into a mono signal.

**2**: Mix the input signals into a stereo signal.

Direct:

On/Off

**On**: Bypass input processing such as acoustic echo cancellation and noise reduction, regardless of the configuration for each connected input connector. Bypassing the input processing reduces the audio input delay, which is useful when doing local sound reinforcement.

**Off**: All regular input processing is performed, according to the configuration of each connector.

MixerMode:

Auto/Fixed/GainShared

**Auto**: If one input signal is dominating, the signal on the other connectors are attenuated with 20 dB each.

**Fixed:** The input signals all have the same weight, and consequently they are mixed together with equal gains.

**GainShared:** If one or some of the input signals dominate, the rest of the input signals are attenuated by a few dB so that the total gain of the mixed signal remains the same all the time.

Auto and GainShared are intended for the microphones; Fixed is recommended for Line and HDMI inputs.

Mute:

*On/Off*

**On:** Mutes the mix of input signals.

**Off:** No muting.

## xCommand Audio LocalInput Ethernet Deregister

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Use this command to deregister an audio stream from a logical Ethernet audio input connector. You must include either the ConnectorId or StreamName. If both are provided, they must refer to the same input connector.

To see currently registered streams, use the Audio Input Connectors Ethernet [n] StreamName status.

**USAGE:**

```
xCommand Audio LocalInput Ethernet Deregister [ConnectorId: ConnectorId
[ResetConfig: ResetConfig] [StreamName: "StreamName"]
```

where

ConnectorId:

*Integer (1..6) [RoomPanorama/Room70Panorama ]*

*Integer (1..8) [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2 ]*

The unique identifier of the logical Ethernet connector.

ResetConfig:

*False/True*

**False:** Keep all current settings for this input.

**True:** Reset all settings related to this input.

Default value: False

StreamName:

*String (0, 40)*

A unique name for the audio stream. This name is reported by the Audio Input Connectors Ethernet [n] StreamName status.

## xCommand Audio LocalInput Ethernet PacketStatisticsReset

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This command resets the counters that are returned by the Audio Input Connectors Ethernet [n] PacketsReceived status and the Audio Input Connectors Ethernet [n] PacketsLost status.

**USAGE:**

```
xCommand Audio LocalInput Ethernet PacketStatisticsReset
```

## xCommand Audio LocalInput Ethernet Register

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Use this command to register an audio stream to a logical Ethernet audio input connector.

To see currently registered streams, use the Audio Input Connectors Ethernet [n] StreamName status.

**USAGE:**

```
xCommand Audio LocalInput Ethernet Register [ConnectorId: ConnectorId
StreamName: "StreamName"
```

where

ConnectorId:

*Integer (1..6) [RoomPanorama/Room70Panorama ]*

*Integer (1..8) [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2 ]*

The identifier of the logical Ethernet connector. If not specified, the first available number is used.

StreamName:

*String (0, 40)*

A unique name for the audio stream. For an AES67 stream, this name is reported by the Audio Input Ethernet DiscoveredStream status.

## xCommand Audio LocalOutput Add

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Create a virtual local output and generate an identifier for it (OutputId). A local output is a mix of local inputs and the remote input signals. Use the xCommand Audio LocalOutput ConnectInput command to specify which local inputs to include. The remote input signal (from far-end) is by default automatically added to this local output when in a call. Use the AutoconnectRemote parameter if you want to override the default behavior. A local output is associated with a set of output connectors, which all receive the same signal.

The maximum number of local output modules is 6. You get an error message if you exceed the limit.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput Add [OutputId: OutputId] [Name: "Name"]  
[AutoconnectRemote: AutoconnectRemote] [Loudspeaker: Loudspeaker] [Channels:  
Channels] [VolumeControlled: VolumeControlled]
```

where

OutputId:

*Integer (0..65534)*

A unique identifier for the local output. If you don't specify an OutputId, the device will automatically create one for you. We recommend that you specify the OutputId yourself in case you must refer to the output module at a later stage.

Default value: 0

Name:

*String (0, 255)*

Choose a name that describes the local output.

Default value: ""

AutoconnectRemote:

*On/Off*

**On:** The remote input signal is automatically added to the local output when in a call.

**Off:** The remote input signal is not added to the local output.

Default value: On

Loudspeaker:

*On/Off*

**On:** Choose On if at least one of the associated connectors are connected to a loudspeaker. This is important because it tells the echo canceler to use this signal as a reference signal.

**Off:** Choose Off if no loudspeaker is connected to the associated connectors. Note

that only one of the local outputs should have a loudspeaker connected.

Default value: Off

Channels:

*Integer (1..2)*

**1:** Mix the local and remote input signals into a mono signal.

**2:** Mix the local and remote input signals into a stereo signal.

Default value: 1

VolumeControlled:

*On/Off*

**On:** The volume will change according to the level set with the volume controls on the user interface, or with the xCommand Audio Volume commands. If Loudspeaker is On, VolumeControlled is forced to On no matter what you specify here.

**Off:** The volume is neither influenced by the volume controls on the user interface, nor the xCommand Audio Volume commands.

Default value: Off

## xCommand Audio LocalOutput AddConnector

Applies to: [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN

Attach an output connector to the local output given by the output ID. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector. A connector can only be attached to one local output.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ and Room Kit EQX: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput AddConnector OutputId: OutputId ConnectorType:
ConnectorType ConnectorId: ConnectorId
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

ConnectorType:

*ARC/Ethernet/HDMI/Line/USBInterface/WebView* [[CodecPro](#)]

*ARC/Ethernet/HDMI/Line/USBC/USBInterface/WebView* [[CodecEQ](#)]

*ARC/Ethernet/HDMI/InternalSpeaker/Line/USBC/USBInterface/WebView* [[RoomKitEQX](#)]

*ARC/Ethernet/HDMI/InternalSpeaker/Line/USBInterface/WebView* [[Room70G2](#)  
[RoomPanorama/Room70Panorama](#)]

Select the type of the physical connector, device, or session to deliver audio to.

**ARC:** The ARC (Audio Return Channel) on the corresponding HDMI input.

**Ethernet:** An audio device on the codec's internal network. Ethernet [1] is for the AEC reference signal to a digital microphone (Cisco Table Microphone Pro / Cisco Microphone Array). For Room Kit EQX and Room Panorama, Ethernet [2] is for audio to the DNAM IV amplifier.

**HDMI:** An HDMI output.

**InternalSpeaker:** The device's internal speakers.

**Line:** An analog audio line output.

**USBC:** A USB-C (output).

**USBInterface:** An audio interface connected to a USB connector.

**WebView:** The embedded web browser. In WebRTC sessions, WebView [1] is main audio, while WebView [2] is presentation audio.

ConnectorId:

*Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a*

*WebView session*

*[[CodecPro](#)]*

*Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session* [[RoomKitEQX](#) [CodecEQ](#)]

*Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session* [[Room70G2](#)]

*Room Panorama: Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..2) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session*

*Room 70 Panorama: Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session* [[RoomPanorama/Room70Panorama](#)]

Select a connector. The connectors' numbers are printed on the codec connector panel.

## xCommand Audio LocalOutput ConnectInput

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Connect a local or remote input to a local output by giving their IDs as parameters. A local input can be connected to any number of local outputs. Likewise, any number of local inputs can be connected to each local output. Note that the remote input signal (from far-end) is automatically added to all local outputs when a call is made, and automatically disconnected when the call is ended.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs, xStatus Audio Input LocalInput to get an overview of all local inputs, and xStatus Audio Input RemoteInput to see the remote input details.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput ConnectInput OutputId: OutputId InputId: InputId  
[InputGain: InputGain]
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

InputId:

*Integer (0..65534)*

The unique identifier of the local or remote input. The local input's ID was generated when the local input was created with the xCommand Audio LocalInput Add command. The remote input's ID was generated automatically when the call was made.

InputGain:

*Integer (-54..15)*

Set the gain on the input signal. The gain can also be negative (attenuation). The value -54 dB equals Off.

Default value: 0

## xCommand Audio LocalOutput DisconnectInput

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Disconnect a local or remote input from a local output. Note that the remote input signal (from far-end) is automatically disconnected when a call is ended.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs, xStatus Audio Input LocalInput to get an overview of all local inputs, and xStatus Audio Input RemoteInput to see the remote input details.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput DisconnectInput OutputId: OutputId InputId:  
InputId
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

InputId:

*Integer (0..65534)*

The unique identifier of the local or remote input. The local input's ID was generated when the local input was created with the xCommand Audio LocalInput Add command. The remote input's ID was generated automatically when the call was made.

## xCommand Audio LocalOutput Ethernet Deregister

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Use this command to deregister an outgoing audio stream from a logical Ethernet audio output connector.

To see currently active streams and their parameters, check the Audio Output Connectors Ethernet status.

### USAGE:

xCommand Audio LocalOutput Ethernet Deregister ConnectorId: ConnectorId

where

ConnectorId:

*Integer (2..4)* [[RoomBarPro](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [BoardPro](#) [BoardProG2](#)]

*Integer (3..4)* [[RoomKitEQX](#)]

*Room 70 Panorama: Integer (2..4)* *Room Panorama: Integer (3..4)* [[RoomPanorama/Room70Panorama](#)]

The identifier of the logical Ethernet output connector. Note that Ethernet 1 is a reserved connector. For Room Kit EQX and Room Panorama (that is, devices with a Cisco DNAM IV amplifier), Ethernet 2 is also reserved.

## xCommand Audio LocalOutput Ethernet Register

Applies to: [RoomBarPro](#) [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Use this command to configure and register an outgoing audio stream to a logical Ethernet audio output connector. This is required for transmission of audio over AES67 from the video device.

Once registered, the stream is announced using SAP every 30 seconds on the address set in the Audio Ethernet SAPDiscovery Address setting.

To see currently active streams and their parameters, check the Audio Output Connectors Ethernet status.

### USAGE:

xCommand Audio LocalOutput Ethernet Register Channels: Channels [ConnectorId: ConnectorId] MediaIP: "MediaIP" StreamName: "StreamName"

where

Channels:

*Integer (1..2)*

The number of channels to transmit in the stream.

ConnectorId:

*Integer (2..4)* [[RoomBarPro](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [BoardPro](#) [BoardProG2](#)]

*Integer (3..4)* [[RoomKitEQX](#)]

*Room 70 Panorama: Integer (2..4)* *Room Panorama: Integer (3..4)* [[RoomPanorama/Room70Panorama](#)]

The identifier of the logical Ethernet output connector. If not specified, the first available number is used. Note that Ethernet 1 is a reserved connector. For Room Kit EQX and Room Panorama (that is, devices with a Cisco DNAM IV amplifier), Ethernet 2 is also reserved.

MediaIP:

*String (0, 16)*

This is the IP address to use for the audio transmission. It must be a valid multicast address. Note that some devices have a specified range of multicast addresses they consider valid.

StreamName:

*String (0, 64)*

A unique name for the audio stream. This name will be visible to other AES67 devices on the network.

## xCommand Audio LocalOutput Remove

Applies to: *RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Remove the local output given by the output ID.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput Remove OutputId: OutputId
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

## xCommand Audio LocalOutput RemoveConnector

Applies to: *RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Detach an output connector from the local output given by the output ID. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ and Room Kit EQX: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput RemoveConnector ConnectorType: ConnectorType  
ConnectorId: ConnectorId
```

where

ConnectorType:

*ARC/Ethernet/HDMI/Line/USBInterface/WebView [CodecPro]*

*ARC/Ethernet/HDMI/Line/USBC/USBInterface/WebView [CodecEQ]*

*ARC/Ethernet/HDMI/InternalSpeaker/Line/USBC/USBInterface/WebView [RoomKitEQX]*

*ARC/Ethernet/HDMI/InternalSpeaker/Line/USBInterface/WebView [Room70G2*

*RoomPanorama/Room70Panorama]*

Select the type of the physical connector, device, or session that audio is delivered to.

**ARC:** The ARC (Audio Return Channel) on the corresponding HDMI input.

**Ethernet:** An audio device on the codec's internal network. Ethernet [1] is for the AEC reference signal to a digital microphone (Cisco Table Microphone Pro / Cisco Microphone Array). For Room Kit EQX and Room Panorama, Ethernet [2] is for audio to the DNAM IV amplifier.

**HDMI:** An HDMI output.

**InternalSpeaker:** The device's internal speakers.

**Line:** An analog audio line output.

**USBC:** A USB-C (output).

**USBInterface:** An audio interface connected to a USB connector.

**WebView:** The embedded web browser. In WebRTC sessions, WebView [1] is main audio, while WebView [2] is presentation audio.

ConnectorId:

*Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session*

*[CodecPro]*

*Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3)*

for an HDMI connector; Integer (1..1) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session [RoomKitEQX CodecEQ]

Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session [Room70G2]

Room Panorama: Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..2) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session

Room 70 Panorama: Integer (1..1) for an HDMI connector with ARC (Audio Return Channel); Integer (1..3) for an HDMI connector; Integer (1..1) for internal loudspeaker processing; Integer (1..6) for a line out connector; Integer (1..1) for audio over Ethernet; Integer (1..1) for audio to a USB audio interface; Integer (1..2) for a WebView session [RoomPanorama/Room70Panorama]

Select a connector. The connectors' numbers are printed on the codec connector panel.

## xCommand Audio LocalOutput Update

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

Update the settings of the local output given by the output ID.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput Update OutputId: OutputId [Name: "Name"]
[AutoconnectRemote: AutoconnectRemote] [Loudspeaker: Loudspeaker] [Channels:
Channels] [VolumeControlled: VolumeControlled]
```

where

OutputId:

Integer (0..65534)

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

Name:

String (0, 255)

Choose a name that describes the local output.

AutoconnectRemote:

On/Off

**On:** The remote input signal is automatically added to the local output when in a call.

**Off:** The remote input signal is not added to the local output.

Loudspeaker:

On/Off

**On:** Choose On if at least one of the associated connectors are connected to a loudspeaker. This is important because it tells the echo canceler to use this signal as a reference signal.

**Off:** Choose Off if no loudspeaker is connected to the associated connectors. Note that only one of the local outputs should have a loudspeaker connected.

Channels:

Integer (1..2)

**1:** Mix the local and remote input signals into a mono signal.

**2:** Mix the local and remote input signals into a stereo signal.

VolumeControlled:

On/Off

**On:** The volume will change according to the level set by the volume controls on the user interface, or the xCommand Audio Volume commands. If Loudspeaker is On,



VolumeControlled is forced to On no matter what you specify here.

**Off:** The volume is neither influenced by the volume controls on the user interface, nor the xCommand Audio Volume commands.

## xCommand Audio LocalOutput UpdateInputGain

*Applies to:* [RoomKitEQX](#) [CodecEQ](#) [CodecPro](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#) [DeskPro](#)

Requires user role: ADMIN

Update the gain of a local or remote input that is connected to a local output. Note that the remote input signal (from far-end) is automatically added to all local outputs when a call is made, and automatically disconnected when the call is ended.

Run xStatus Audio Output LocalOutput to get an overview of all local outputs, xStatus Audio Input LocalInput to get an overview of all local inputs, and xStatus Audio Input RemoteInput to see the remote input details.

This command is used by the Audio Console. If you don't use Audio Console, note that you must create a macro to make the audio chain definitions persistent over a reboot.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio LocalOutput UpdateInputGain [InputGain: InputGain] InputId: InputId OutputId: OutputId
```

where

InputGain:

*Integer (-54..15)*

Set the gain on the input signal. The gain can also be negative (attenuation). The value -54 dB equals Off.

Default value: 0

InputId:

*Integer (0..65534)*

The unique identifier of the local or remote input. The local input's ID was generated when the local input was created with the xCommand Audio LocalInput Add command. The remote input's ID was generated automatically when the call was made.

OutputId:

*Integer (0..65534)*

The unique identifier of the local output. It was generated when the local output was created with the xCommand Audio LocalOutput Add command.

## xCommand Audio Microphones MusicMode Start

*Applies to:* [All products](#)

Requires user role: ADMIN, INTEGRATOR, USER

Start using MusicMode in the current call. Music mode allows the dynamic range of music go through. When Music mode is in use, sound level variations are transmitted intact and the noise filtering is kept to a minimum. MusicMode is automatically turned off when the call ends.

### USAGE:

```
xCommand Audio Microphones MusicMode Start
```

## xCommand Audio Microphones MusicMode Stop

*Applies to:* [All products](#)

Requires user role: ADMIN, INTEGRATOR, USER

Stop using MusicMode in the current call.

### USAGE:

```
xCommand Audio Microphones MusicMode Stop
```

## xCommand Audio Microphones Mute

*Applies to:* [All products](#)

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Mute all microphones.

### USAGE:

```
xCommand Audio Microphones Mute
```

## xCommand Audio Microphones NoiseRemoval Activate

*Applies to:* [All products](#)

Requires user role: ADMIN, INTEGRATOR, USER

Activate noise removal on the device.

For this to take effect, you must enable xConfiguration Audio Microphones NoiseRemoval Mode to enable the noise removal feature on the device.

### USAGE:

```
xCommand Audio Microphones NoiseRemoval Activate
```

## xCommand Audio Microphones NoiseRemoval Deactivate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Deactivate noise removal on the device.

### USAGE:

```
xCommand Audio Microphones NoiseRemoval Deactivate
```

## xCommand Audio Microphones Passthrough Start

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Start sending audio from the device's microphones to the connector that is specified by the ConnectorId/ConnectorType parameters.

When you use the Call from laptop feature, you don't have to issue this command explicitly; you should use the Video Output HDMI Passthrough Start/Stop commands to control streaming of both audio and video.

This command doesn't apply to Room 55 Dual and Room 70 Dual.

### USAGE:

```
xCommand Audio Microphones Passthrough Start ConnectorId: ConnectorId  
ConnectorType: ConnectorType
```

where

ConnectorId:

*Integer (1..3) [CodecPro]*

*Room 70 G2 Single: Integer (2..3) Room 70 G2 Dual: Integer (3..3) [Room70G2]*

*Integer (1..2) [RoomKit CodecPlus]*

*Integer (1..1) [Room55]*

*Room 70 Single: Integer (2..2) [Room70/Room55D]*

The identifier (ID) of the connector to send the microphone signal to. Connector [n] has ID n.

ConnectorType:

*HDMI*

The type of connector to send the microphone signal to.

## xCommand Audio Microphones Passthrough Stop

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Stop sending audio from the device's microphones to the connector that is specified in the ConnectorId/ConnectorType parameters. If no connector is specified, audio is stopped on all available connectors.

When you use the Call from laptop feature, you don't have to issue this command explicitly; you should use the Video Output HDMI Passthrough Start/Stop commands to control streaming of both audio and video.

This command doesn't apply to Room 55 Dual and Room 70 Dual.

### USAGE:

```
xCommand Audio Microphones Passthrough Stop [ConnectorId: ConnectorId]  
[ConnectorType: ConnectorType]
```

where

ConnectorId:

*Integer (1..3) [CodecPro]*

*Room 70 G2 Single: Integer (2..3) Room 70 G2 Dual: Integer (3..3) [Room70G2]*

*Integer (1..2) [RoomKit CodecPlus]*

*Integer (1..1) [Room55]*

*Room 70 Single: Integer (2..2) [Room70/Room55D]*

The identifier (ID) of the connector to stop sending the microphone signal to. Connector [n] has ID n.

ConnectorType:

*HDMI*

The type of connector to stop sending the microphone signal to.

Default value: HDMI

## xCommand Audio Microphones ToggleMute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Toggle the microphone between muted and unmuted.

### USAGE:

```
xCommand Audio Microphones ToggleMute
```

## xCommand Audio Microphones Unmute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Unmute all microphones.

### USAGE:

```
xCommand Audio Microphones Unmute
```

## xCommand Audio RemoteOutput ConnectInput

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Connect an input to a remote output by giving their IDs as parameters. An input can be connected to any number of remote output gates, and any number of inputs can be connected to one remote output gate. Note that all local inputs are automatically added to all remote output gates when a call is made, and automatically disconnected when the call is ended.

Run xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is mainly intended for internal use by the Audio Console. It is only applicable during a call.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio RemoteOutput ConnectInput OutputId: OutputId InputId: InputId  
[InputGain: InputGain]
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the remote output. It was automatically generated when the call was made.

InputId:

*Integer (0..65534)*

The unique identifier of the input. It was either generated when the input was created with the xCommand Audio Local Input Add command, or when the call was set up (remote input).

InputGain:

*Integer (-54..15)*

Set the gain on the input signal. The gain can also be negative (attenuation). The value -54 dB equals Off.

Default value: 0

## xCommand Audio RemoteOutput DisconnectInput

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Disconnect an input from a remote output by giving their IDs as parameters. Note that the remote output is automatically removed when the call has ended.

Run xStatus Audio Output RemoteOutput to get an overview of the remote outputs, and xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is mainly intended for internal use by the Audio Console. It is only applicable during a call.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio RemoteOutput DisconnectInput OutputId: OutputId InputId:  
InputId
```

where

OutputId:

*Integer (0..65534)*

The unique identifier of the remote output. It was automatically generated when the call was made.

InputId:

*Integer (0..65534)*

The unique identifier of the input. It was either generated when the input was created with the xCommand Audio Local Input Add command, or when the call was set up (remote input).

## xCommand Audio RemoteOutput UpdateInputGain

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro*

Requires user role: ADMIN

Update the gain of an input that is connected to a remote output. Note that the remote output is automatically removed when the call has ended.

Run xStatus Audio Output RemoteOutput to get an overview of the remote outputs, and xStatus Audio Input LocalInput to get an overview of all local inputs.

This command is mainly intended for internal use by the Audio Console. It is only applicable during a call.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio RemoteOutput UpdateInputGain [InputGain: InputGain] InputId: InputId OutputId: OutputId
```

where

InputGain:

*Integer (-54..15)*

Set the gain on the input signal. The gain can also be negative (attenuation). The value -54 dB equals Off.

Default value: 0

InputId:

*Integer (0..65534)*

The unique identifier of the input. It was either generated when the input was created with the xCommand Audio Local Input Add command, or when the call was set up (remote input).

OutputId:

*Integer (0..65534)*

The unique identifier of the remote output. It was automatically generated when the call was made.

## xCommand Audio Select

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Select which type of audio device to use (built-in loudspeakers and microphone, headsets, or handset).

### USAGE:

```
xCommand Audio Select Device: Device
```

where

Device:

*Internal/HeadsetBluetooth/HeadsetAnalog/HeadsetUSB/HandsetUSB [RoomKit RoomKitMini Room55 DeskPro]*

*Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB [RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Choose whether to use the built-in loudspeakers and microphone (internal), a Bluetooth® headset (only Room Bar, Room Bar Pro, Desk Series, Board Pro, and Board Pro G2), an analog headset (only Desk Pro), a USB headset, or a USB handset.

## xCommand Audio Setup Clear

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Remove all local inputs and local outputs.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio Setup Clear
```

## xCommand Audio Setup Reset

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

This command resets the audio setup of the video device (as set up using the Audio Console application or API commands). In effect it removes all local inputs and local outputs, sets connectors and groups back to their default values, and rebuilds the audio setup the same way as after a restart.

Codec EQ: AVIntegrator option required.

### USAGE:

```
xCommand Audio Setup Reset
```

## xCommand Audio Sound Play

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Play a specified audio sound.

### USAGE:

```
xCommand Audio Sound Play [Loop: Loop] Sound: Sound
```

where

Loop:

*Off/On*

Determines whether or not to loop the playout of the audio sound. The sound is looped by default. Irrespective of how this parameter is set, some of the sounds (Busy, CallWaiting, Dial, Ringing, and SpecialInfo) will play until the Audio Sound Stop command is issued.

Default value: Off

Sound:

*Alert/Announcement/Binding/Bump/Busy/CallDisconnect/CallInitiate/CallWaiting/Dial/KeyInput/KeyInputDelete/KeyTone/Nav/NavBack/Notification/OK/Pairing/PresentationConnect/Ringing/SignIn/SpecialInfo/StartListening/TelephoneCall/VideoCall/VolumeAdjust/WakeUp*

Choose which ringtone to play.

## xCommand Audio Sound Stop

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Stop playing audio sound.

### USAGE:

```
xCommand Audio Sound Stop
```

## xCommand Audio SpeakerCheck

*Applies to: RoomKitEQX Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Runs a test that you can use to check that all the internal speakers are connected correctly. A test tone will be emitted from each speaker in sequence, from left to right. If the speakers don't play in correct order, reconnect the loudspeaker cables to obtain the correct sequence. All speakers are part of the test sequence, and you must be in the same room as the device to verify that the test sequence plays correctly.

The device uses the connected microphones to listen for the test signal, and the result of the test is returned in the API.

### USAGE:

```
xCommand Audio SpeakerCheck [MeasurementLength: MeasurementLength] [Volume: Volume]
```

where

MeasurementLength:

*Integer (1..5)*

Test signal duration for each speaker in seconds.

Default value: 1

Volume:

*Integer (1..30)*

Test signal level.

Default value: 1

## xCommand Audio SoundsAndAlerts Ringtone List

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

List all available ringtones. Use the xConfiguration Audio SoundsAndAlerts RingTone setting to choose a ringtone.

### USAGE:

```
xCommand Audio SoundsAndAlerts Ringtone List
```

## xCommand Audio SoundsAndAlerts Ringtone Play

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Play one of the available ringtones. Use the xCommand Audio SoundsAndAlerts Ringtone List command to get a list of the available ringtones.

### USAGE:

```
xCommand Audio SoundsAndAlerts Ringtone Play [Loop: Loop] RingTone: "RingTone"
```

where

Loop:

*On/Off*

Repeats the chosen ringtone in a loop. To turn off the audio, use the Audio SoundsAndAlerts Ringtone Stop xCommand.

Default value: Off

RingTone:

*String (1, 100)*

The name of the ringtone.

## xCommand Audio SoundsAndAlerts Ringtone Stop

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Stops the chosen ringtone from playing. To start playing the ringtone again, use the Audio SoundsAndAlerts Ringtone Play xCommand.

### USAGE:

```
xCommand Audio SoundsAndAlerts Ringtone Stop
```

## xCommand Audio Volume Decrease

*Applies to: All products*

Requires user role: ADMIN, USER

Decrease the volume on the video device. By default, the volume is decreased by 5 steps (each step is 0.5 dB). Use the Steps parameter if you want to override the default behavior.

Note that Desk series, Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, and Room 55 have several audio units: built-in loudspeakers, headsets, and handset. This command affects only one unit at a time. You can use the optional Device parameter to specify which audio unit to address. The most recently selected unit is chosen if you don't specify a unit (see xStatus Audio SelectedDevice). Also refer to xCommand Audio Select.

### USAGE:

```
xCommand Audio Volume Decrease [Device: Device] [Steps: Steps]
```

where

Device: [ *RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2* ]

*Internal/HeadsetBluetooth/HeadsetAnalog/HeadsetUSB/HandsetUSB [DeskPro]*

*Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB [RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

*Internal/HeadsetUSB/HandsetUSB [RoomKit RoomKitMini Room55]*

Choose whether to decrease the volume on the built-in loudspeakers, a Bluetooth headset (only Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro), an analog headset (only Desk Pro), a USB headset, or a USB handset.

Steps:

*Integer (1..10)*

Choose the number of steps to decrease the volume with. One step is 0.5 dB.

Default value: 5

## xCommand Audio Volume Increase

*Applies to: All products*

Requires user role: ADMIN, USER

Increase the volume on the video device. By default, the volume is increased by 5 steps (each step is 0.5 dB). Use the Steps parameter if you want to override the default behavior.

Note that Desk Series, Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, and Room 55 have several audio units: built-in loudspeakers, headsets, and handset. This command affects only one unit at a time. You can use the optional Device parameter to specify which audio unit to address. The most recently selected unit is chosen if you don't specify a unit (see xStatus Audio SelectedDevice). Also refer to xCommand Audio Select.

### USAGE:

```
xCommand Audio Volume Increase [Device: Device] [Steps: Steps]
```

where

Device: [ RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2 ]

Internal/HeadsetBluetooth/HeadsetAnalog/HeadsetUSB/HandsetUSB [ DeskPro ]

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB [ RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2 ]

Internal/HeadsetUSB/HandsetUSB [ RoomKit RoomKitMini Room55 ]

Choose whether to increase the volume on the built-in loudspeakers, a Bluetooth headset (only Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro), an analog headset (only Desk Pro), a USB headset, or a USB handset.

Steps:

Integer (1..10)

Choose the number of steps to increase the volume with. One step is 0.5 dB.

Default value: 5

## xCommand Audio Volume Mute

*Applies to: All products*

Requires user role: ADMIN, USER

Mute the volume on the video device.

Note that Desk Series, Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, and Room 55 have several audio units: built-in loudspeakers, headsets, and handset. This command affects only the selected audio unit. Refer to the xStatus Audio SelectedDevice and xCommand Audio Select commands for more information about the selected unit.

### USAGE:

```
xCommand Audio Volume Mute
```

## xCommand Audio Volume Set

*Applies to: All products*

Requires user role: ADMIN, USER

Set the volume on the video device to a specified level.

Note that Desk Series, Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, and Room 55 have several audio units: built-in loudspeakers, headsets, and handset. This command affects only one unit at a time. You can use the optional Device parameter to specify which unit to address. The most recently selected unit is chosen if you don't specify a unit (see xStatus Audio SelectedDevice). Also refer to xCommand Audio Select.

### USAGE:

```
xCommand Audio Volume Set [Device: Device] Level: Level
```

where

Device: [ RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2 ]

Internal/HeadsetBluetooth/HeadsetAnalog/HeadsetUSB/HandsetUSB [ DeskPro ]

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB [ RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2 ]

Internal/HeadsetUSB/HandsetUSB [ RoomKit RoomKitMini Room55 ]

Choose whether to set the volume on the built-in loudspeakers, a Bluetooth headset (only Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro), an analog headset (only Desk Pro), a USB headset, or a USB handset.

Level:

Integer (0..100)

Select the gain level. 70 equals 0 dB gain, and 100 equals 15 dB gain.

## xCommand Audio Volume SetToDefault

*Applies to: All products*

Requires user role: ADMIN, USER

Set the volume to the default level that is defined in the xConfiguration Audio DefaultVolume setting.

Note that Desk Series, Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, and Room 55 have several audio unit: built-in loudspeakers, headsets, and handset. This command affects only one unit at a time. You can use the optional Device parameter to specify which audio unit to address. The most recently selected unit is chosen if you don't specify a unit (see xStatus Audio SelectedDevice). Also refer to xCommand Audio Select.

### USAGE:

```
xCommand Audio Volume SetToDefault [Device: Device]
```

where

Device: [ RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2 ]

Internal/HeadsetUSB/HandsetUSB [ RoomKit RoomKitMini Room55 ]

Internal/HeadsetBluetooth/HeadsetAnalog/HeadsetUSB/HandsetUSB [ DeskPro ]

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB [ RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2 ]

Choose whether to set the volume on the built-in loudspeakers, a Bluetooth headset (only Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro), an analog headset (only Desk Pro), a USB headset, or a USB handset.

## xCommand Audio Volume ToggleMute

*Applies to: All products*

Requires user role: ADMIN, USER

Toggle the loudspeaker between muted and unmuted.

### USAGE:

```
xCommand Audio Volume ToggleMute
```

## xCommand Audio Volume Unmute

*Applies to: All products*

Requires user role: ADMIN, USER

Set the volume on the device back on after muting.

### USAGE:

```
xCommand Audio Volume Unmute
```

## xCommand Audio VuMeter Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Start a VU meter to measure the audio signal level on the specified connector. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector and behavior. The VU meter measures the input level for frequencies below 20 kHz.

You can monitor the measured signal levels on the device's local web interface (Settings > Audio and Video), or you can use the xFeedback and xEvents commands.

### USAGE:

```
xCommand Audio VuMeter Start ConnectorId: ConnectorId ConnectorType: ConnectorType [IncludePairingQuality: IncludePairingQuality] [IntervalMs: IntervalMs] [Source: Source]
```

where

ConnectorId:

Integer (1..1) [ RoomKitMini DeskPro DeskMini Desk ]

Integer (1..2) [ RoomBar ]

Integer (1..3) [ RoomKit CodecPlus Room55 Room70/Room55D BoardPro BoardProG2 ]

Integer (1..5) [ Board ]

Integer (1..8) [ RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama ]

Specify the connector number. In general, the connector number is a unique ID that identifies the microphone input. The available connector numbers depend on the device.

For analog microphone inputs, this is the same identifier [n] as used in the Audio Input Microphone [n] configurations.

For digital Ethernet microphones, the connector numbers are assigned when the microphone is registered to the device, starting from 1 and following the order in which the microphones are paired with the device. Room Panorama and Room 70 Panorama support up to 6; Coded EQ, Room Kit EQX, and Room Bar Pro without AVIntegrator option supports up to 3; Coded EQ, Room Kit EQX, and Room Bar Pro with AVIntegrator option supports up to 8; Board Pro and Board Pro G2 support up to 3 digital Ethernet microphones; and Codec Pro and Room 70 G2 support up to 8 digital Ethernet microphones (Cisco Table Microphone Pro / Cisco Microphone Array).

If the device has a built-in microphone or microphone array, its connector number is 1.

There are a few exceptions to these rules, refer to the ConnectorType description for details about special ConnectorType/ConnectorId combinations.

ConnectorType:

Microphone/USBMicrophone [ RoomKit RoomKitMini RoomBar CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk ]



*Microphone/MicArray* [Board]

*Ethernet/Microphone/MicArray/USBMicrophone* [BoardPro BoardProG2]

*Ethernet/Microphone/USBMicrophone* [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]

Select the connector type. The connector types available depend on the device.

In general, use Microphone for external analog microphones and for a device's built-in microphone or microphone array, use USBMicrophone for USB microphones, and use Ethernet for digital Ethernet microphones.

For Board, Board Pro, and Board Pro G2, the built-in microphone array consists of 12 microphone elements. The signals from these elements are combined to generate beams. If the ConnectorType is set to MicArray, the ConnectorID must be set to 1. In this case 12 signal levels are returned, one for each of the individual elements in the microphone array. If ConnectorType is set to Microphone, Board doesn't behave the same as Board Pro and Board Pro G2. For Board Pro and Board Pro G2, ConnectorId 1 returns the signal level of the built-in microphone array after beam selection, while ConnectorId 2 and 3 refer to the two external analog microphone inputs. For Board, which has no external analog microphone inputs, the ConnectorId 1 to 5 identifies which of its five individual beams to return the signal level from.

IncludePairingQuality:

*Off/On*

The device can measure the pairing quality (value 0 to 100). With no other ultrasound sources in the same room this value will be high, but if there are other ultrasound sources in the same room the value will be low. If using the device's local web interface to monitor the signal levels, you must check Show Pairing Rate to see the pairing quality.

Default value: Off

IntervalMs:

*10..1000*

Specifies the update interval in milliseconds of the VuMeter values. The values can be specified in 10 ms steps.

Default value: 100

Source:

*AfterAEC/BeforeAEC*

Determines whether the VU meter should measure the audio signal level before or after acoustic echo cancellation processing (AEC). If measured before AEC, the signal includes both the sound played out by the device's loudspeakers and the sound generated locally in the room. If measured after AEC, only sound generated locally in the room is included.

A local presentation audio track and remote participants' voices are examples of sound played out by the device's loudspeakers, while local participants' voices are examples of sound generated locally in the room.

Default value: BeforeAEC

## xCommand Audio VuMeter Stop

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Stop the VU meter on the specified connector. You must specify both the connector's type and number (ConnectorType, ConnectorId) to uniquely identify the connector.

**USAGE:**

```
xCommand Audio VuMeter Stop ConnectorId: ConnectorId ConnectorType: ConnectorType
```

where

ConnectorId:

*Integer (1..1)* [RoomKitMini DeskPro DeskMini Desk]

*Integer (1..2)* [RoomBar]

*Integer (1..3)* [RoomKit CodecPlus Room55 Room70/Room55D BoardPro BoardProG2]

*Integer (1..5)* [Board]

*Integer (1..8)* [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]

Specify the connector number. In general, the connector number is a unique ID that identifies the microphone input. The connector numbers available depend on the device. Refer to the Audio VuMeter Start command for a detailed description.

ConnectorType:

*Microphone/USBMicrophone* [RoomKit RoomKitMini RoomBar CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk BoardPro BoardProG2]

*Microphone/MicArray* [Board]

*Ethernet/Microphone/MicArray/USBMicrophone* [BoardPro BoardProG2]

*Ethernet/Microphone/USBMicrophone* [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]

Select the connector type. The connector types available depend on the device. Refer to the Audio VuMeter Start command for a detailed description.

## xCommand Audio VuMeter StopAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Stop all VU meters.

**USAGE:**

```
xCommand Audio VuMeter StopAll
```

## Bluetooth commands

### xCommand Bluetooth Streaming Next

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

You can use the Bluetooth Streaming commands to control audio streaming from a device (for example, mobile phone or laptop) that is connected to the video device via Bluetooth. Use this command to skip to the next audio track on the connected device.

Prerequisite: Turn on Bluetooth on the video device, and for first-time pairing, also make it discoverable to other devices. This is done from the Settings panel on the video device's user interface. Then initiate a connection to the video device from the Bluetooth settings panel on the connected device.

#### USAGE:

```
xCommand Bluetooth Streaming Next
```

### xCommand Bluetooth Streaming Pause

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

You can use the Bluetooth Streaming commands to control audio streaming from a device (for example, mobile phone or laptop) that is connected to the video device via Bluetooth. Use this command to pause audio playback on the connected device.

Prerequisite: Turn on Bluetooth on the video device, and for first-time pairing, also make it discoverable to other devices. This is done from the Settings panel on the video device's user interface. Then initiate a connection to the video device from the Bluetooth settings panel on the connected device.

#### USAGE:

```
xCommand Bluetooth Streaming Pause
```

### xCommand Bluetooth Streaming Play

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

You can use the Bluetooth Streaming commands to control audio streaming from a device (for example, mobile phone or laptop) that is connected to the video device via Bluetooth. Use this command to resume playback after a pause on the connected device.

Prerequisite: Turn on Bluetooth on the video device, and for first-time pairing, also make it discoverable to other devices. This is done from the Settings panel on the video device's user interface. Then initiate a connection to the video device from the Bluetooth settings panel on the connected device.

#### USAGE:

```
xCommand Bluetooth Streaming Play
```

### xCommand Bluetooth Streaming Previous

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

You can use the Bluetooth Streaming commands to control audio streaming from a device (for example, mobile phone or laptop) that is connected to the video device via Bluetooth. Use this command to skip to the start of the current audio track on the connected device, or to the previous track if issued a second time.

Prerequisite: Turn on Bluetooth on the video device, and for first-time pairing, also make it discoverable to other devices. This is done from the Settings panel on the video device's user interface. Then initiate a connection to the video device from the Bluetooth settings panel on the connected device.

#### USAGE:

```
xCommand Bluetooth Streaming Previous
```

# Bookings commands

## xCommand Bookings Book

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Book the meeting room for the specified period. If you don't specify the start time and duration, the room will be booked from now on and for 30 minutes.

This command is only available for devices that support the room scheduling feature, refer to the AdhocBooking Enabled setting.

### USAGE:

```
xCommand Bookings Book [BookingRequestUUID: "BookingRequestUUID"] [Duration: Duration] [StartTime: "StartTime"] [Title: "Title"]
```

where

BookingRequestUUID:

*String (1, 128)*

A unique identifier for the booking request. If this parameter is omitted, a booking request identifier will be assigned automatically.

Duration:

*Integer (0..1440)*

The duration of the meeting, in minutes.

Default value: 30

StartTime:

*String (1, 128)*

The start time of the meeting in the following UTC format: YYYY-MM-DDThh:mm:ssZ.  
Example: 2021-01-24T01:29:00Z.

Title:

*String (1, 128)*

The title or subject field in the calendar booking. It will also be displayed on screen in the today's bookings list.

## xCommand Bookings Clear

*Applies to: All products*

Requires user role: ADMIN, USER

Clear the current stored list of bookings.

### USAGE:

```
xCommand Bookings Clear
```

## xCommand Bookings Delete

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Remove the meeting that is identified by either the Id or MeetingId parameter. Then the room becomes available for new bookings.

This command is only available for devices that support the room scheduling feature, refer to the RoomScheduler AdhocBooking setting.

### USAGE:

```
xCommand Bookings Delete [Id: "Id"] [MeetingId: "MeetingId"]
```

where

Id:

*String (1, 128)*

A unique meeting identifier. It allows the deletion of meetings that are scheduled through either the Bookings Put command or hybrid calendar. The identifier is returned by the Bookings List command. For hybrid calendar, this id may not be persistent across reboots.

MeetingId:

*String (1, 128)*

A unique meeting identifier. It is assigned to the meeting by the hybrid calendar service backend. The meeting identifier is returned by the Bookings List command. Note that this is different from the booking request identifier (BookingRequestUUID) that is provided when issuing the Bookings Book command.

## xCommand Bookings Edit

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Edit the duration, title, or starting time of the meeting that is identified by the MeetingId parameter. This command is only available for devices that support the room scheduling feature. Refer to the AdhocBooking Enabled setting.

### USAGE:

```
xCommand Bookings Edit [Duration: Duration] MeetingId: "MeetingId" [StartTime: "StartTime"] [Title: "Title"]
```

where

Duration:

*Integer (1..1440)*

Duration of the meeting in minutes.

MeetingId:

*String (1, 128)*

A unique meeting identifier. It is assigned to the meeting by the calendar service backend. The meeting identifier is returned by the Bookings List command. Note that this is different from the booking request identifier (BookingRequestUUID) that is provided when issuing the Bookings Book command.

StartTime:

*String (0, 128)*

Starting time of the meeting in UTC format:YYYY-MM-DDThh:mm:ssZ.

Title:

*String (0, 128)*

Title or subject field in the calendar booking. It is displayed on screen in the today's bookings list.

## xCommand Bookings Extend

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Extend the duration of the meeting that is identified by a specific meeting ID.

### USAGE:

```
xCommand Bookings Extend Duration: Duration Id: "Id"
```

where

Duration:

*Integer (1..1440)*

Duration of the meeting in minutes.

Id:

*String (1, 128)*

A unique meeting identifier. It is assigned to the meeting by the calendar service backend. The meeting identifier is returned by the Bookings List command. Note that this is different from the booking request identifier (BookingRequestUUID) that is provided when issuing the Bookings Book command.

## xCommand Bookings Get

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Get the booking information for a specific ID.

### USAGE:

```
xCommand Bookings Get Id: "Id"
```

where

Id:

*String (1, 128)*

A unique meeting identifier. It is assigned to the meeting by the calendar service backend. The meeting identifier is returned by the Bookings List command. Note that this is different from the booking request identifier (BookingRequestUUID) that is provided when issuing the Bookings Book command.

## xCommand Bookings List

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

List the stored bookings for the device. The list of booking details is received from the management system. All parameters are optional and can be used to limit the search result.

If no parameters are set, past, present and future bookings are all listed. To avoid listing bookings from yesterday and before, use DayOffset = 0.

### USAGE:

```
xCommand Bookings List [Days: Days] [DayOffset: DayOffset] [Limit: Limit]
[Offset: Offset]
```

where

Days:

*Integer (1..365)*

Number of days to retrieve bookings from.

DayOffset:

*Integer (0..365)*

Which day to start the search from (today: 0, tomorrow: 1, ...).

Default value: 0

Limit:

*Integer (1..65534)*

Max number of bookings to list.

Offset:

*Integer (0..65534)*

Offset number of bookings for this search.

Default value: 0

## xCommand Bookings NotificationSnooze

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Sets notifications for the stored bookings in this device to snooze.

### USAGE:

```
xCommand Bookings NotificationSnooze [Id: "Id"] [SecondsToSnooze:
SecondsToSnooze]
```

where

Id:

*String (0, 128)*

The ID of the notification snooze setting.

SecondsToSnooze:

*Integer (1..3600)*

The duration of the snooze period, in seconds.

Default value: 300

## xCommand Bookings Respond

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Accept or decline a meeting invitation. You can also add a comment.

This command applies to devices that are either registered to the Webex cloud service or registered to an on-premises service and linked to Webex Edge for Devices.

### USAGE:

```
xCommand Bookings Respond Comment: "Comment" MeetingId: "MeetingId" Type:
Type
```

where

Comment:

*String (1, 2048)*

Add a comment in the response to the meeting invitation given to the room.

MeetingId:

*String (1, 128)*

The unique identifier for the meeting.

Type:

*Accept/Decline*

**Accept:** Accept a meeting invitation given to the room.

**Decline:** Decline a meeting invitation given to the room.

## xCommand Bookings Put

*Applies to: All products*

Requires user role: ADMIN

This API has special terms and conditions, please refer to the "About the API – Terms and Conditions" section in the API guide.

Replaces the list of stored bookings. This is a multiline command, with details of the stored bookings as payload.

The meeting information is provided in JSON format.

For example:

```
{
  "Bookings": [
    {
      "Id": "1",
      "Number": "number@example.com",
      "Organizer": {
        "Name": "John Smith"
      },
      "Protocol": "WebRTC",
      "MeetingPlatform": "MicrosoftTeams",
      "Time": {
        "Duration": 60,
        "EndTimeBuffer": 50,
        "StartTime": "2024-06-04T08:40:42.300000000Z"
      },
      "Title": "Booking Title"
    }
  ]
}
```

The JSON structure supports the following fields:

```
{
  { "Id", "id" },
  { "MeetingId", "MyMeeting" },
  { "Agenda", "MyAgenda" },
  { "Title", "MyBookingTitle" },
  { "Privacy", "Private/Public" },
  { "Protocol", "SIP/H323/ISDN/IP/Spark/WebRTC" },
  { "MeetingPlatform", "GoogleMeet/MicrosoftTeams/Zoom/Webex/Other" },
```

```
{ "MetalInfo", "..." },
{ "Time", {
  { "StartTime", "2020-06-10T09:31:42Z"},
  { "Duration", 60 },
  { "StartTimeBuffer", 300 },
  { "EndTimeBuffer", 0 },
}},
{ "Organizer", {
  { "Name", "John Smith" },
  { "Email", "johnsmith@example.com" },
  { "Id", "" },
}},
{ "Number", "number@example.com" },
{ "CallType", "Audio/Video" },
{ "Encryption", "On/Off" }
}
```

The required fields are: Id, Title, Number, Protocol, Organizer/Name, Time/StartTime, and Time/Duration.

StartTime: The meeting start time in UTC/Zulu time.

Duration: The meeting duration in minutes.

StartTimeBuffer: The number of seconds before the meeting start time that people can join the meeting.

EndTimeBuffer: The number of seconds longer than the scheduled hours (StartTime + Duration) that the meeting can last.

Number: The the number that will be dialed.

MeetingPlatform: The service that hosts the meeting. This is used to show a visual indication (for example, Microsoft Teams icon) in the user interface. We support only Microsoft Teams and Google Meet if the Protocol is WebRTC; for other protocols we support all the available meeting platform options.

### USAGE:

```
xCommand Bookings Put
```

## Call commands

### xCommand Call Accept

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Accept an incoming call. If no CallId is specified, all incoming calls are accepted.

#### USAGE:

```
xCommand Call Accept [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During the call you can run xStatus Call to see the CallId.

Default value: 0

### xCommand Call Disconnect

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN,INTEGRATOR, USER

Disconnect a call. If no CallId is specified, the currently active call will be disconnected.

#### USAGE:

```
xCommand Call Disconnect [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During the call you can run the xStatus Call command to see the CallId.

Default value: 0

### xCommand Call DTMFSend

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Send DTMF tones to the far end.

#### USAGE:

```
xCommand Call DTMFSend [CallId: CallId] DTMFString: "DTMFString" [Feedback: Feedback]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During the call you can run the xStatus Call command to see the CallId.

Default value: -1

DTMFString:

*String (0, 32)*

Enter the DTMF string.

Feedback:

*Audible/Silent*

Silence or make audible the tones that are provided as feedback when keys are entered during a call

(such as are heard when entering a password).

Default value: Audible

## xCommand Call FarEndControl Camera Move

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Move the far end camera (the remote camera).

This command can be issued from a device that is participating in a call and can be used to control the camera of another device within the same call.

Speakertrack must be disabled on the far end camera.

Once the Move command is issued, the far end camera will continue to move in the specified direction until the stop command (ref: xCommand FarEndControl Camera Stop) is issued.

For on-premises and CMS, this command accesses the camera of the active speaker.

For cloud, this command accesses the camera of the specified participant.

An additional constraint is that you cannot control the camera of a cloud-based personal mode device. This is for privacy reasons (i.e., home office).

### USAGE:

```
xCommand Call FarEndControl Camera Move [CallId: CallId] [ParticipantId: "ParticipantId"] Value: Value
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

Default value: -1

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the camera of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.

Value:

*Left/Right/Up/Down/ZoomIn/ZoomOut*

Select the action for how to move the camera.

## xCommand Call FarEndControl Camera Stop

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Stop the far end camera after the xCommand FarEndControl Camera Move has been issued.

This command can be issued from a device that is participating in a call and can be used to control the camera of another device within the same call.

Speakertrack must be disabled on the far end camera.

For on-premises and CMS, this command accesses the camera of the active speaker.

For cloud, this command accesses the camera of the specified participant.

An additional constraint is that you cannot control the camera of a cloud-based personal mode device. This is for privacy reasons (i.e., home office).

### USAGE:

```
xCommand Call FarEndControl Camera Stop [CallId: CallId] [ParticipantId: "ParticipantId"]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

Default value: -1

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the camera of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.



## xCommand Call FarEndControl RequestCapabilities

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Send a request to find out what capabilities a far end camera has for remote control.

This command can be issued from a device that is participating in a call and can be used to control the camera of another device within the same call.

For on-premises and CMS, this command accesses the camera of the active speaker.

For cloud, this command accesses the camera of the specified participant.

An additional constraint is that you cannot control the camera of a cloud-based personal mode device. This is for privacy reasons (e.g., home office).

### USAGE:

```
xCommand Call FarEndControl RequestCapabilities [CallId: CallId]  
[ParticipantId: "ParticipantId"]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

Default value: -1

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the camera of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.

## xCommand Call FarEndControl RoomPreset Activate

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

While in a call, this command is used to activate a preset on the far end device. The preset covers the far end device's camera positions and input video switcher settings.

The preset must be stored on the far end device beforehand, either by using the xCommand Preset Store command locally on the far end device, or by using the xCommand FarEndControl Preset Store command from a remote device.

Note: The far end device's xConfiguration Conference FarEndControl Mode setting must be switched On for the FarEndControl commands to work.

### USAGE:

```
xCommand Call FarEndControl RoomPreset Activate [CallId: CallId]  
[ParticipantId: "ParticipantId"] PresetId: PresetId
```

where

CallId:

*Integer (0..65534)*

The CallId is required to identify the far end device only when in a Multipoint call. The CallId is returned when issuing the xCommand Dial command. During a call you can run the xStatus Call command to see the CallId.

Default value: -1

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the camera of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.

PresetId:

*Integer (1..15)*

The ID of the preset that is stored on the far end device.

## xCommand Call FarEndControl RoomPreset Store

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

While in a call, this command is used to store a preset on the far end device. The preset covers the far end device's camera positions and input video switcher settings. Note: The far end device's xConfiguration Conference FarEndControl Mode setting must be switched On for the FarEndControl commands to work.

### USAGE:

```
xCommand Call FarEndControl RoomPreset Store [CallId: CallId] [ParticipantId: "ParticipantId"] PresetId: PresetId
```

where

CallId:

*Integer (0..65534)*

The CallId is required to identify the far end device only when in a Multipoint call. The CallId is returned when issuing the xCommand Dial command. During a call you can run the xStatus Call command to see the CallId.

Default value: -1

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the camera of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.

PresetId:

*Integer (1..15)*

The ID of the preset that is stored on the far end device.

## xCommand Call FarEndControl Source Select

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Select which video input source to use as the main source on the far end device.

This command can be issued from a device that is participating in a call and can be used to select the source for another device within the same call.

For on-premises and CMS, this command selects the source for the active speaker.

For cloud, this command selects the source of the specified participant.

An additional constraint is that you cannot control the source of a cloud-based personal mode device. This is for privacy reasons (i.e., home office).

### USAGE:

```
xCommand Call FarEndControl Source Select [CallId: CallId] SourceId: SourceId [ParticipantId: "ParticipantId"] PresetId: PresetId
```

where

CallId:

*Integer (0..65534)*

The CallId is required to identify the far end device only when in a Multipoint call. The CallId is returned when issuing the xCommand Dial command. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

Default value: -1

SourceId:

*Integer (0..15)*

Select a video input source on the far end.

ParticipantId:

*String (0, 255)*

(Cloud only) The ParticipantId is a unique number used to address a participant in a call.

ParticipantId is ignored for on-premises or CMS, as these always control the device of the active speaker.

The ParticipantId is not needed if there are only 2 participants in a call, as it is implied.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

Scan the list for the participant and use the subfield, "ParticipantId".

During the call, you can run the xCommand Call FarEndControl RequestCapabilities to check if Far End Camera Control is supported.

PresetId:

*Integer (1..15)*

The ID of the preset that is stored on the far end device.

## xCommand Call FarEndMessage Send

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Send data between two codecs in a point-to-point call, for use with control systems or macros. Works with SIP calls only. Requires that the Conference FarEndMessage Mode is set to On.

### USAGE:

xCommand Call FarEndMessage Send Text: "Text" Type: "Type" [CallId: CallId]

where

Text:

*String (1, 1450)*

Enter the message to be sent to the far end.

Type:

*String (0, 255)*

Enter the message type to be sent to the far end.

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

## xCommand Call Forward

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Specifies what number or URI you want to forward your incoming calls to. The display name is a local reference for the forwarded destination. A message, together with the local reference, is shown on screen when you have configured the device to forward all calls.

### USAGE:

xCommand Call Forward DisplayName: "DisplayName" Number: "Number"

where

DisplayName:

*String (0, 255)*

The local reference for the forwarded destination.

Number:

*String (0, 255)*

The directory number or URI which you want to forward the incoming calls to.

## xCommand Call Hold

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Put a call on hold.

### USAGE:

xCommand Call Hold [CallId: CallId] [Reason: Reason]

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

Default value: 0

Reason:

*Conference/Transfer/Other*

Cisco internal use only.

Default value: Other

## xCommand Call Ignore

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Turns off the ringtone for the incoming call. The call can still be answered.

### USAGE:

xCommand Call Ignore CallId: CallId

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

## xCommand Call Join

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Cisco internal use only.

### USAGE:

```
xCommand Call Join [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

You can have from 1 to 10 CallId parameters in the same command.

## xCommand Call Reject

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Reject incoming call. If no call id is specified, all incoming calls are rejected.

### USAGE:

```
xCommand Call Reject [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

Default value: 0

## xCommand Call Resume

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Resume a call that have been put on hold.

### USAGE:

```
xCommand Call Resume [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

Default value: 0

## xCommand Call UnattendedTransfer

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Transfers an ongoing call to another participant. Fully supported for SIP calls only.

### USAGE:

```
xCommand Call UnattendedTransfer CallId: CallId Number: "Number"
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the xCommand Dial command is run. During a call you can run the xStatus Call command to see the CallId.

Number:

*String (0, 255)*

The number the call is transferred to.

## CallHistory commands

### xCommand CallHistory AcknowledgeAllMissedCalls

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Turns off the missed calls indicator on the touch controller for all missed calls.

#### USAGE:

```
xCommand CallHistory AcknowledgeAllMissedCalls
```

### xCommand CallHistory AcknowledgeMissedCall

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Turns off the missed calls indicator on the touch controller for the specified call.

#### USAGE:

```
xCommand CallHistory AcknowledgeMissedCall CallHistoryId: CallHistoryId  
[AcknowledgeConsecutiveDuplicates: AcknowledgeConsecutiveDuplicates]
```

where

CallHistoryId:

*Integer (1..2147483647)*

CallHistoryId for the call in question. Run xCommand CallHistory Get to get the id number.

AcknowledgeConsecutiveDuplicates:

*False/True*

You can include or exclude all surrounding calls with duplicate information.

Default value: False

### xCommand CallHistory DeleteAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Deletes all information on previous calls.

#### USAGE:

```
xCommand CallHistory DeleteAll [Filter: Filter]
```

where

Filter:

*All/Missed/Placed/Received*

You can filter which calls to delete.

Default value: All

### xCommand CallHistory DeleteEntry

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Deletes all information on the specified call.

#### USAGE:

```
xCommand CallHistory DeleteEntry CallHistoryId: CallHistoryId  
[DeleteConsecutiveDuplicates: DeleteConsecutiveDuplicates]
```

where

CallHistoryId:

*Integer (1..2147483647)*

CallHistoryId for the call in question. Run xCommand CallHistory Get to get the id number.

DeleteConsecutiveDuplicates:

*False/True*

You can delete the surrounding calls with duplicate information or not.

Default value: False

## xCommand CallHistory Get

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Retrieve all information on previous calls made on the device.

### USAGE:

```
xCommand CallHistory Get [Filter: Filter] [Offset: Offset] [Limit: Limit]  
[DetailLevel: DetailLevel] [SearchString: "SearchString"] [CallHistoryId:  
CallHistoryId]
```

where

Filter:

*All/Missed/AnsweredElsewhere/Forwarded/Placed/Pmr/NoAnswer/Received/  
Rejected/UnacknowledgedMissed*

You can filter which calls to retrieve. Pmr refers to a personal meeting room.

Default value: All

Offset:

*Integer (0..65534)*

Sets the call from which to start.

Default value: 0

Limit:

*Integer (0..65534)*

Defines the amount of calls in the output.

Default value: 65534

DetailLevel:

*Basic/Full*

Sets the level of detail for the information on these calls.

Default value: Basic

SearchString:

*String (0, 255)*

Allows you to set the command to apply to a specified display name or call back number.

Default value: ""

CallHistoryId:

*Integer (1..2147483647)*

CallHistoryId for the call in question.

## xCommand CallHistory Recents

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Retrieve aggregated information on previous calls made on the device.

### USAGE:

```
xCommand CallHistory Recents [Filter: Filter] [Offset: Offset] [Limit: Limit]  
[DetailLevel: DetailLevel] [SearchString: "SearchString"] [Order: Order]
```

where

Filter:

*All/Missed/AnsweredElsewhere/Forwarded/Placed/Pmr/NoAnswer/Received/  
Rejected/UnacknowledgedMissed*

You can filter which calls to retrieve. Pmr refers to a personal meeting room.

Default value: All

Offset:

*Integer (0..65534)*

Sets the call from which to start.

Default value: 0

Limit:

*Integer (0..65534)*

Defines the amount of calls in the output.

Default value: 65534

DetailLevel:

*Basic/Full*

Sets the level of detail for the information on these calls.

Default value: Basic

SearchString:

*String (0, 255)*

Allows you to set the command to apply to a specified display name or call back number.

Default value: ""

Order:

*OccurrenceTime/OccurrenceFrequency*

Define the order in which the previous calls are presented.

Default value: OccurrenceTime

## Camera commands

### xCommand Camera InstallationTilt Ramp

*Applies to: RoomBarPro*

Requires user role: ADMIN

Start to move the camera module (physically) in the specified direction. The camera motor moves the camera module in the given direction at slow speed until a new command, either changing the direction or stopping the movement, is issued. The camera movement always stops when reaching the end of its range.

The main purpose of this command is to be able to readjust the physical camera tilt after the device is installed for the first time. For ordinary camera view pan-tilt-zoom (digital), use the Camera Ramp command.

#### USAGE:

xCommand Camera InstallationTilt Ramp Tilt: Tilt

where

Tilt:

*Down/Stop/Up*

Start or stop the camera tilt motor which moves the camera module up or down.

**Down:** Start tilting the camera module downward.

**Up:** Start tilting the camera module upward.

**Stop:** Stop tilting the camera module.

### xCommand Camera PositionReset

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Reset the camera position to default position.

#### USAGE:

xCommand Camera PositionReset [Axis: Axis] CameraId: CameraId

where

Axis:

*All/Focus/PanTilt/Zoom*

Select which function to reset. If not specified all are reset.

Default value: All

CameraId:

*Integer (1..7)*

The ID of the camera you want to reset.

### xCommand Camera PositionSet

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Set the camera position. The value range for the different parameters (pan, tilt, zoom, roll) depends on the camera type. If you enter a value that isn't within the supported range for your camera, the closest allowed value will be applied. Also, if the combination of the pan, tilt, zoom, and roll values is not possible, the camera automatically adjusts the values to a valid combination.

Refer to the Cameras Camera [n] Position Pan/Tilt/Zoom/Roll statuses to see the actual values applied.

#### USAGE:

xCommand Camera PositionSet CameraId: CameraId [Focus: Focus] [Lens: Lens] [Pan: Pan] [Roll: Roll] [Tilt: Tilt] [Zoom: Zoom]

where

CameraId:

*Integer (1..1) [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

*Integer (1..7) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

The ID of the camera preset you want to reset.

Focus:

*Integer (0..65535)*

Focus the camera near or far.

Lens:

*Center/Left/Right/Wide [RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

*Center/Tele/Wide [RoomBarPro BoardProG2]*

*Center/Wide [BoardPro]*

*Wide [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

Some cameras have more than one lens. This parameter selects which lens to set the position for.

Pan:

*Integer (-17000..17000)*

Move the camera to the left or right. The unit is 1/100 degree, that is 100 corresponds to 1 degree. A positive value moves the camera to the left, and a negative value moves the camera to the right. Left and right refers to when looking from the back of the camera out into the room. This is the opposite of what is seen when looking at the camera lens from the room.

Roll: [CodecPro Room70G2 RoomPanorama/Room70Panorama]

*Integer (-300..300)*

Rotate the camera view. The observed image rotates counterclockwise when the

value is positive, and clockwise when the value is negative. The unit is 1/100 degree, that is 100 corresponds to 1 degree.

Tilt:

*Integer (-9000..9000)*

Move the camera up or down. The unit is 1/100 degree, that is 100 corresponds to 1 degree. A positive value tilts the camera up, and a negative value tilts the camera down.

Zoom:

*Integer (0..12000)*

Zoom in or out. The unit is HFOV (horizontal field of view) in 1/100 degree, that is 100 corresponds to 1 degree. A low value corresponds to maximum zoom and the largest value corresponds to minimum zoom (full wide).

## xCommand Camera Preset Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Activate one of the stored camera presets. This command has no effect on speaker tracking. If speaker tracking is on, it will continue from the preset position.

Note that the xCommand Camera Preset commands applies to an individual camera.

### USAGE:

```
xCommand Camera Preset Activate PresetId: PresetId
```

where

PresetId:

*Integer (1..35)*

The ID of the camera preset you want to activate.

## xCommand Camera Preset ActivateDefaultPosition

*Applies to: All products*

Requires user role: ADMIN, USER

Sets the cameras to their default position, if one is defined. The default position is defined by xCommand Camera Preset Store or by xCommand Camera Preset Edit. Only one default position can be defined per camera. This command has no effect on speaker tracking. If speaker tracking is on, it will continue from the preset position.

### USAGE:

```
xCommand Camera Preset ActivateDefaultPosition [CameraId: CameraId]
```

where

CameraId:

*Integer (1..1) [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

*Integer (1..7) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

The ID of the camera preset you want to activate. If CameraId is not specified, all cameras will be set in their respective default position, if one is defined.



## xCommand Camera Preset Edit

*Applies to: All products*

Requires user role: ADMIN, USER

Edit a stored camera preset. You can change the name of the camera preset and its position in the list that is returned by the xCommand Camera Preset List command. You can also change whether or not this preset is the default position for the associated camera.

Note that the xCommand Camera Preset commands applies to an individual camera.

### USAGE:

```
xCommand Camera Preset Edit PresetId: PresetId [ListPosition: ListPosition]  
[Name: "Name"] [DefaultProosition: DefaultProosition]
```

where

PresetId:

*Integer (1..35)*

The ID of the camera preset you want to edit.

ListPosition:

*Integer (1..35)*

The position in the list returned by the xCommand Camera Preset List command.

Name:

*String (0, 255)*

The name of the camera preset. It will be used in the list returned by the xCommand Camera Preset List command.

DefaultProosition:

*False/True*

Defines whether or not this preset is the default position for the associated camera. Note that each camera can only have one default position, so if set, the old default preset will automatically be marked as not default.

## xCommand Camera Preset List

*Applies to: All products*

Requires user role: ADMIN, USER

List information about available camera presets.

Note that the xCommand Camera Preset commands applies to an individual camera.

### USAGE:

```
xCommand Camera Preset List [CameraId: CameraId] [DefaultPosition:  
DefaultPosition]
```

where

CameraId:

*Integer (1..1) [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board ]*

*Integer (1..7) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2 ]*

Only list presets for the specified camera.

DefaultPosition:

*False/True*

List default positions only, or only those that are not default positions.

## xCommand Camera Preset Remove

*Applies to: All products*

Requires user role: ADMIN, USER

Remove a camera preset.

Note that the xCommand Camera Preset commands applies to an individual camera.

### USAGE:

```
xCommand Camera Preset Remove PresetId: PresetId
```

where

PresetId:

*Integer (1..35)*

The ID of the camera preset you want to remove.

## xCommand Camera Preset Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the preset details for the requested PresetId.

### USAGE:

```
xCommand Camera Preset Show PresetId: PresetId
```

where

PresetId:

*Integer (1..35)*

The ID of the camera preset you wish to see.

## xCommand Camera Preset Store

*Applies to: All products*

Requires user role: ADMIN, USER

Store the current position (pan and tilt), zoom and focus of the chosen camera. The camera is identified by the CameraId parameter.

Note that the xCommand Camera Preset commands applies to an individual camera. The xCommand Camera Preset commands are useful when you want to handle multiple camera positions individually per camera, rather than working with complete sets of camera positions. The individual camera presets are not available for far end control.

### USAGE:

```
xCommand Camera Preset Store [PresetId: PresetId] CameraId: CameraId  
[ListPosition: ListPosition] [Name: "Name"] [TakeSnapshot: TakeSnapshot]  
[DefaultPrositition: DefaultPrositition]
```

where

PresetId:

*Integer (1..35)*

The ID of this camera preset. If not set explicitly, the codec will assign a preset ID automatically.

CameraId:

*Integer (1..1) [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board ]*

*Integer (1..7) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2 ]*

Select the camera for which to store the preset position.

ListPosition:

*Integer (1..35)*

The new camera preset's position in the list returned by the xCommand Camera Preset List command.

Name:

*String (0, 255)*

The name of the new camera preset. It will be used in the list returned by the xCommand Camera Preset List command.

TakeSnapshot:

*False/True*

Allow or disallow snapshot of the preview.

DefaultPrositition:

*False/True*

Defines whether or not this preset shall be the default position of the associated camera. Note that each camera can hold only one default position, so if set, the old default preset will automatically be marked as not default.

## xCommand Camera Ramp

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Move the camera in a specified direction. The camera moves at specified speed until a stop command is issued. In a daisy chain, you must know the CameraId for the camera you want to address. Be aware that pan and tilt can be operated simultaneously, but no other combinations. In the latter case only the first operation specified is executed. For example, if you try to run both zoom and pan at the same time, only zoom is executed.

NOTE: You must run a stop command to stop the camera.

### USAGE:

```
xCommand Camera Ramp CameraId: CameraId [Pan: Pan] [PanSpeed: PanSpeed]  
[Tilt: Tilt] [TiltSpeed: TiltSpeed] [Zoom: Zoom] [ZoomSpeed: ZoomSpeed]  
[Focus: Focus]
```

where

CameraId:

*Integer (1..1) [RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

*Integer (1..7) [RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Select the camera.

Pan:

*Left/Right/Stop*

Move the camera to the Left or Right, followed by Stop.

PanSpeed:

*Integer (1..24)*

Set the pan speed.

Tilt:

*Down/Up/Stop*

Move the camera Up or Down, followed by Stop.

TiltSpeed:

*Integer (1..24)*

Set the tilt speed.

Zoom:

*In/Out/Stop*

Zoom the camera In or Out, followed by Stop.

ZoomSpeed:

*Integer (1..15)*

Set the zoom speed.

Focus:

*Far/Near/Stop*

Focus the camera Far or Near, followed by Stop.

## xCommand Camera TriggerAutofocus

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Trigger the auto-focus functionality. Applies to cameras that have auto-focus functionality.

### USAGE:

```
xCommand Camera TriggerAutofocus CameraId: CameraId
```

where

CameraId:

*Integer (1..7)*

Select the camera to auto-focus.

## xCommand Camera TriggerWhitebalance

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Trigger the white balance One Push on supported Sony IP cameras.

Hold a white piece of paper in front of the camera as a reference and fill the frame. The white balance will be adjusted according to the ambient light.

The command will only be applied when the white balance mode is set to Manual.

### USAGE:

```
xCommand Camera TriggerWhitebalance CameraId: CameraId
```

where

CameraId:

*Integer (1..7)*

Select the camera upon which to trigger white balance.

## Cameras commands

### xCommand Cameras AutoFocus Diagnostics Start

*Applies to:* [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

Start diagnostics on auto focus.

#### USAGE:

xCommand Cameras AutoFocus Diagnostics Start CameraId: CameraId

where

CameraId:

1..7

Select which camera to diagnose.

### xCommand Cameras AutoFocus Diagnostics Stop

*Applies to:* [CodecPlus](#) [CodecPro](#) [Room70/Room55D](#) [Room70G2](#) [RoomPanorama/Room70Panorama](#)

Requires user role: ADMIN, INTEGRATOR

Stop diagnostics on auto focus.

#### USAGE:

xCommand Cameras AutoFocus Diagnostics Stop CameraId: CameraId

where

CameraId:

1..7

Select which camera to diagnose.

### xCommand Cameras Background Clear

*Applies to:* [DeskPro](#) [DeskMini](#) [Desk](#)

Requires user role: ADMIN, INTEGRATOR, USER

Delete all of the user-installed background images.

#### USAGE:

xCommand Cameras Background Clear

### xCommand Cameras Background Delete

*Applies to:* [DeskPro](#) [DeskMini](#) [Desk](#)

Requires user role: ADMIN, INTEGRATOR, USER

Delete the specified user-supplied camera background image.

#### USAGE:

xCommand Cameras Background Delete Image: Image

where

Image:

User1/User2/User3

User1, User2, and User3 are slots where an uploaded image can be installed.

### xCommand Cameras Background Fetch

*Applies to:* [DeskPro](#) [DeskMini](#) [Desk](#)

Requires user role: ADMIN, INTEGRATOR, USER

Uploads an image from the specified URL and installs into the selected user1-3 slot.

#### USAGE:

xCommand Cameras Background Fetch [Checksum: "Checksum"] [ChecksumType: ChecksumType] Image: Image Url: "Url"

where

Checksum:

String (0, 128)

The checksum for the image file.

ChecksumType:

SHA512

The type for the given checksum.

Default value: SHA512

Image:

User1/User2/User3

User1, User2, and User3 are slots where an uploaded image can be installed.

Url:

String (8, 2048)

The URL for an image.

## xCommand Cameras Background ForegroundParameters Reset

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Used in Immersive Share mode. Set the size, position and opacity of the foreground picture to full size, centered, and opaque.

The command is only relevant if you are using the HDMI or USB-C input as a virtual background for your self-view image.

### USAGE:

```
xCommand Cameras Background ForegroundParameters Reset
```

## xCommand Cameras Background ForegroundParameters Set

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Used in Immersive Share mode. Set the size, position, and opacity of the image in the foreground.

You can also set the composition of the shared pictures to show the full camera video in either the foreground or background.

The command is only relevant if you are using the HDMI or USB-C input as a virtual background for your self-view image.

### USAGE:

```
xCommand Cameras Background ForegroundParameters Set [Composition:
Composition] [Opacity: Opacity] [Scale: Scale] [X: X] [Y: Y]
```

where

Composition:

*Blend/CameraPip/VideoPip*

**Blend:** Render the foreground part of the camera input on top of the PC input. This is the typical view of a floating person, whose background is transparent, placed over the presentation video. The PC input is rendered in full screen and the X, Y, Scale parameters control the position of the camera input.

**CameraPip:** Render the camera input as Picture-In-Picture on top of the PC input. This will show the entire camera image, including the background, as a rectangle placed over the presentation video. The PC input is rendered in full screen and the X, Y, Scale parameters control the position of the camera input.

**VideoPip:** Render the PC input as Picture-In-Picture on top of the camera input. This will show the presentation video in a rectangle that is placed over the full camera view, including background. The camera input is rendered in full screen and the X, Y, Scale parameters control the position of the PC input.

Opacity:

*Integer (0..100)*

The opacity of the foreground picture. 100 means that the picture is opaque, the lower the value the more you can see of the background through the picture, and 0 means that you will only see the background.

Scale:

*Integer (1..100)*

The size of the foreground picture relative to the background (in percent). 100 is full size, 1 is no self-view picture.

X:

*Integer (0..10000)*

The position (horizontally) of the center of the foreground picture. 0 is the left edge, 5000 is center, and 10000 is the right edge.

Y:

*Integer (0..10000)*

The position (vertically) of the center of the foreground picture. 0 is the top edge, 5000 is center, and 10000 is the bottom edge.

## xCommand Cameras Background Get

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Get the image data for user-uploaded image at the specified slot.

The intended user is the User Interface (for example, settings.webex.com) to allow for displaying thumbnails or large version of user images.

### USAGE:

xCommand Cameras Background Get Image: Image [Size: Size]

where

Image:

*User1/User2/User3*

User1, User2, and User3 are slots where an uploaded image can be installed.

Size:

*Large/Thumbnail*

The size of the image to display.

Default value: Large

## xCommand Cameras Background List

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Displays Installed/NotInstalled for each of the user background image slots, User1, User2, and User3.

### USAGE:

xCommand Cameras Background List

## xCommand Cameras Background Set

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Specify the camera background settings. The Cameras Background Enabled configuration must be True for this command to take effect.

### USAGE:

xCommand Cameras Background Set [Image: Image] [Mode: Mode]

where

Image:

*Image1/Image2/Image3/Image4/Image5/Image6/Image7/User1/User2/User3*

The image to use as the background. For the image to be shown, the Mode parameter must be set to "Image".

Image1, Image2, Image3, Image4, Image5, Image6, Image7: Pre-installed images.

User1, User2, and User3: Images that are uploaded by the user.

Mode:

*Disabled/Blur/BlurMonochrome/DepthOfField/Hdmi/Monochrome/Image/UsbC [DeskPro Desk]*

*Disabled/Blur/BlurMonochrome/DepthOfField/Monochrome/Image/UsbC [DeskMini]*

The mode for the background image. Options include:

**Disabled:** There are no images or effects masking the background of the camera view.

**Blur:** The background is blurred.

**BlurMonochrome:** A combination of blur and monochrome (blurred without colors).

**DepthOfField:** A variant of blur with less blurring.

**Hdmi:** HDMI input is providing a live background.

**Monochrome:** Shows the image in grayscale.

**Image:** An images is providing the background.

**UsbC:** USB-C is providing a live background.

## xCommand Cameras Background Upload

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, USER

Uploads image data and installs into the selected User1-3 slot.

The content to be uploaded follows as Base64-encoded image data. The maximum size, after Base64-encoding, is 8 MB.

This is a multiline command.

Use:

```
xCommand Cameras Background Upload <enter>
```

```
Encoded image text <enter>
```

```
. <enter>
```

### USAGE:

```
xCommand Cameras Background Upload Image: Image
```

where

Image:

*User1/User2/User3*

User1, User2, and User3 are slots where an uploaded image can be installed.

## xCommand Cameras PresenterTrack ClearPosition

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Clear the stored presenter tracking camera position for the overview image of the stage. The PresenterTrack feature will still work after the camera position has been cleared, but the camera will not view a predefined position upon activation.

This command applies only when using the device with a PTZ 4K or Precision 60 camera for presenter tracking.

### USAGE:

```
xCommand Cameras PresenterTrack ClearPosition
```

## xCommand Cameras PresenterTrack Set

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Set the presenter tracking mode.

This command applies only when using the device with a PTZ 4K or Precision 60 camera for presenter tracking. The command takes effect only if the PresenterTrack feature is enabled, refer to the Cameras PresenterTrack Enabled setting.

### USAGE:

```
xCommand Cameras PresenterTrack Set Mode: Mode
```

where

Mode:

*Off/Follow/Diagnostic/Background/Setup/Persistent*

**Off:** Turn off presenter tracking.

**Follow:** Turn on presenter tracking. This is the default mode when the feature is activated from the user interface. Presenter tracking is automatically turned off when camera moves to a different preset, when another camera is selected, or when standby is activated.

**Diagnostic:** Turn on diagnostic mode in order to troubleshoot presenter tracking, or to see exactly what happens on the device screen. In diagnostics mode there are several activities on the screen. The screen will show the overview image, and the rectangles/squares listed below will be visible:

- \* RED: The trigger zone.
- \* YELLOW: The cropped image of the presenter. Visible only when a head is being tracked.
- \* GREEN: Indicates that a head is detected and that it is tracked.
- \* GREEN BLINKING FILLED: Indicates a positive head detection. If the tracked individual does not get a valid head-read the square becomes red.
- \* RED BLINKING FILLED: Indicates a false head detection. After some seconds the tracking stops.
- \* BLUE: A head is detected, but the head is not tracked.

**Background:** This setting is used by the codec's internal scripts. Turns on presenter tracking with no cropping of the image.

**Setup:** This setting is used by the codec's web interface to show the trigger zone on the device screen when setting up the PresenterTrack feature.

**Persistent:** This setting is used by the codec's internal scripts. Turns on presenter tracking in persistent mode. Persistent mode is automatically turned off when camera moves to a different preset.

## xCommand Cameras PresenterTrack StorePosition

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Store the current position of the presenter tracking camera for the overview image of the stage. The presenter tracking camera will move to this position when activating the feature.

This command applies only when using the device with a PTZ 4K or Precision 60 camera for presenter tracking.

### USAGE:

```
xCommand Cameras PresenterTrack StorePosition
```

## xCommand Cameras SpeakerTrack Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Activate SpeakerTrack or Best Overview mode. Requires that xConfiguration Cameras SpeakerTrack Mode is set to Auto (default).

This command applies only to devices with cameras that support speaker tracking or best overview.

### USAGE:

```
xCommand Cameras SpeakerTrack Activate
```

## xCommand Cameras SpeakerTrack Deactivate

*Applies to: All products*

Requires user role: ADMIN, USER

Deactivate SpeakerTrack or Best Overview mode.

This command applies only to devices with cameras that support speaker tracking or best overview.

### USAGE:

```
xCommand Cameras SpeakerTrack Deactivate
```

## xCommand Cameras SpeakerTrack Calibration Diagnostics Start

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR, USER

Add a visual diagnostics overlay on the video. This is a helpful tool when setting up or troubleshooting multi-camera setups. It shows information such as estimated position of other cameras and microphones (in a multi-camera setup).

The overlay is added to the video from the main camera. If you want it on one of the other cameras in a multi-camera setup, you must temporarily change the main video source (ref. the Video Input SetMainVideoSource command).

The overlay is both in self-view and on the main video sent to the far-end. Use the Cameras SpeakerTrack Calibration Diagnostics Stop command to turn it off.

### USAGE:

```
xCommand Cameras SpeakerTrack Calibration Diagnostics Start
```

## xCommand Cameras SpeakerTrack Calibration Diagnostics Stop

*Applies to: RoomKitEQX CodecEQ*

Requires user role: ADMIN, INTEGRATOR, USER

Remove the visual diagnostics overlay from the video. Refer to the Cameras SpeakerTrack Calibration Diagnostics Start command for more information about this tool.

### USAGE:

```
xCommand Cameras SpeakerTrack Calibration Diagnostics Stop
```

## xCommand Cameras SpeakerTrack BackgroundMode Activate

*Applies to: All products*

Requires user role: ADMIN

Start running the speaker track / best overview algorithm in the background, that is, without doing any changes to your self-view or video sent to the far end.

### USAGE:

```
xCommand Cameras SpeakerTrack BackgroundMode Activate
```

## xCommand Cameras SpeakerTrack BackgroundMode Deactivate

*Applies to: All products*

Requires user role: ADMIN

Stop running the speaker track / best overview algorithm in the background and return to ordinary speaker track / best overview mode.

### USAGE:

```
xCommand Cameras SpeakerTrack BackgroundMode Deactivate
```



## xCommand Cameras SpeakerTrack Diagnostics Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Starts diagnostics on the camera's tracking, so that you can see which speakers, groups, and frames are detected.

This command applies only to devices with cameras that support speaker tracking or best overview. The Tracking parameter only applies to the SpeakerTrack 60 camera.

### USAGE:

```
xCommand Cameras SpeakerTrack Diagnostics Start [Tracking: Tracking]
```

where

Tracking:

*On/Off*

**On:** Displays diagnostics from both cameras simultaneously. In this mode the tracking is determined by who is talking in the room identical to SpeakerTrack's standard behavior.

**Off:** Displays diagnostics from one camera at a time. Diagnostics is switched from one camera to the other in 15 seconds intervals, and camera related diagnostics are shown for the active camera. Both cameras stay in full wide position. Use Tracking: Off when you wish to see the tracking diagnostics from one camera at a time.

Default value: On

## xCommand Cameras SpeakerTrack Diagnostics Stop

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Stops diagnostics on the camera's tracking.

### USAGE:

```
xCommand Cameras SpeakerTrack Diagnostics Stop
```

## xCommand Cameras SpeakerTrack Frames Activate

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, USER

Activate Frames mode. Requires that xConfiguration Cameras SpeakerTrack Frames Mode and xConfiguration Cameras SpeakerTrack Mode is set to Auto (default). This command applies only to devices with cameras that support speaker tracking.

Frames are not available for Room 70 Panorama and Room Panorama in this software version.

### USAGE:

```
xCommand Cameras SpeakerTrack Frames Activate
```

## xCommand Cameras SpeakerTrack Frames Deactivate

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, USER

Deactivate Frames mode.

Frames are not available for Room 70 Panorama and Room Panorama in this software version.

### USAGE:

```
xCommand Cameras SpeakerTrack Frames Deactivate
```

## xCommand Cameras SpeakerTrack ViewLimits Activate

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Start using the limited maximum camera view for speaker tracking (see the Cameras SpeakerTrack ViewLimits StorePosition command). The full camera range is always available for manual camera control.

### USAGE:

```
xCommand Cameras SpeakerTrack ViewLimits Activate
```

### xCommand Cameras SpeakerTrack ViewLimits Deactivate

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Stop using the limited maximum camera view for speaker tracking (see the Cameras SpeakerTrack ViewLimits StorePosition command). The fully zoomed-out camera view will be used instead.

#### USAGE:

```
xCommand Cameras SpeakerTrack ViewLimits Deactivate
```

### xCommand Cameras SpeakerTrack ViewLimits StorePosition

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Store the current camera view as the maximum view (room overview) for speaker tracking. This way you can limit the default maximum view to exclude parts of the room. If you don't set a limit, the maximum view for speaker tracking is the fully zoomed-out camera view.

#### USAGE:

```
xCommand Cameras SpeakerTrack ViewLimits StorePosition
```

### xCommand Cameras SpeakerTrack Whiteboard ActivatePosition

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

This command belongs to the Snap to whiteboard feature, which is not supported in this software version.

#### USAGE:

```
xCommand Cameras SpeakerTrack Whiteboard ActivatePosition
```

### xCommand Cameras SpeakerTrack Whiteboard AlignPosition

*Applies to: CodecPlus CodecPro*

Requires user role: ADMIN, USER

This command belongs to the Snap to whiteboard feature, which is not supported in this software version.

#### USAGE:

```
xCommand Cameras SpeakerTrack Whiteboard AlignPosition
```

### xCommand Cameras SpeakerTrack Whiteboard SetDistance

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

This command belongs to the Snap to whiteboard feature, which is not supported in this software version.

#### USAGE:

```
xCommand Cameras SpeakerTrack Whiteboard SetDistance
```

### xCommand Cameras SpeakerTrack Whiteboard StorePosition

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

This command belongs to the Snap to whiteboard feature, which is not supported in this software version.

#### USAGE:

```
xCommand Cameras SpeakerTrack Whiteboard StorePosition
```

## Conference commands

### xCommand Conference AdmitAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Lets into the call or meeting all participants who are waiting in the virtual lobby. Available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

Participants waiting to be admitted have the status "waiting" in the result from the Conference ParticipantList Search command (\*r ParticipantListSearchResult Participant [n] Status = "waiting").

#### USAGE:

```
xCommand Conference AdmitAll [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

### xCommand Conference Call AuthenticationResponse

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

This command is only available for Webex registered devices. The command gives a response to an authentication request based on the Conference Call[n] AuthenticationRequest status.

#### USAGE:

```
xCommand Conference Call AuthenticationResponse [CallId: CallId  
ParticipantRole: ParticipantRole [Pin: "Pin"]
```

where

CallId:

*Integer (1..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

Default value: 0

ParticipantRole:

*Guest/Host/Panelist*

**Guest:** Join as guest. Guests have no special privileges. Use this also Webex Webinar attendees.

**Host:** Join as host. The host has privileges that allow them to manage the meeting.

**Panelist:** Join as panelist. In Webex Webinars, panelists can participate in the presentation.

Pin:

*String (0, 32)*

PIN code. The PIN must be entered with a trailing '#'. A PIN code must be provided if joining as host, panelist, or as guest, when the Conference Call[n] AuthenticationRequest status indicates that a PIN code is required for that role.

Default value: ""

## xCommand Conference DoNotDisturb Activate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

This command switches on the Do Not Disturb mode, and the Timeout parameter allows you to control when it is switched off again. When Do Not Disturb is switched on, all incoming calls are rejected and registered as missed calls. The calling side receives a busy signal.

### USAGE:

```
xCommand Conference DoNotDisturb Activate [Timeout: Timeout]
```

where

Timeout:

*Integer (1..20160)*

Set the number of minutes before Do Not Disturb is switched off. If not set, Do Not Disturb times out as configured in the Conference DoNotDisturb DefaultTimeout setting.

## xCommand Conference DoNotDisturb Deactivate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Switch off the Do Not Disturb mode. When Do Not Disturb is switched off incoming calls come through as normal.

### USAGE:

```
xCommand Conference DoNotDisturb Deactivate
```

## xCommand Conference EndMeeting

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Ends meeting for all participants.

The command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference EndMeeting [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

## xCommand Conference Hand Lower

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Lower your hand. Use the raise hand feature to let the host know that you have a question or a comment. Raise Hand is available in meetings with more than two participants. It's not available in meetings started from a Webex space.

### USAGE:

```
xCommand Conference Hand Lower CallId: CallId
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

## xCommand Conference Hand Raise

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Raise your hand. Use the raise hand feature to let the host know that you have a question or a comment. Raise Hand is available in meetings with more than two participants. It's not available in meetings started from a Webex space.

### USAGE:

```
xCommand Conference Hand Raise CallId: CallId
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

## xCommand Conference HardMute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Mutes the participants in the call or meeting and prevents them from unmuting themselves.

The command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference HardMute [CallId: CallId] HardMute: HardMute
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

HardMute:

*Off/On*

**Off:** Participants are allowed to unmute themselves.

**On:** Participants can't unmute themselves.

## xCommand Conference Lock

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Locks Webex meetings by preventing uninvited participants from joining.

The command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference Lock CallId: CallId Lock: Lock
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

Lock:

*Off/On*

**Off:** The meeting is not locked, and everyone can join the meeting.

**On:** The meeting is locked, and the guests must wait in the lobby until they are let in.

## xCommand Conference LowerAllHands

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Lower the hands of all conference participants.

### USAGE:

```
xCommand Conference LowerAllHands [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

## xCommand Conference MeetingAssistant Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Not applicable in this version.

### USAGE:

```
xCommand Conference MeetingAssistant Start
```

## xCommand Conference MeetingAssistant Stop

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Not applicable in this version.

### USAGE:

```
xCommand Conference MeetingAssistant Stop
```

## xCommand Conference MuteAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Mutes all participants, except the speaker and the participant who is currently sharing. The command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference MuteAll [CallId: CallId] AudioMute: AudioMute
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

AudioMute:

*Off/On*

**Off:** This will do a server-side unmute, but NO local mute state change. Participants can mute/unmute themselves locally, as long as the xCommand Conference HardMute HardMute:On has not been issued.

**On:** All participants, except the speaker and the participant who is currently sharing are being muted from the server side. The participants are not prevented from unmuting themselves locally, as long as the xCommand Conference HardMute HardMute:On has not been issued.

## xCommand Conference MuteOnEntry

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Decides whether all participants are muted or not when they join the meeting. They can unmute and mute themselves later.

The command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

xCommand Conference MuteOnEntry [CallId: CallId] MuteOnEntry: MuteOnEntry

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

MuteOnEntry:

*Off/On*

**Off:** Participants joining in the meeting are not muted.

**On:** Participants joining in the meeting are muted.

## xCommand Conference Participant Add

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Add a participant to a call or meeting. It is only possible to add a participant if the Conference Call [n] Capabilities ParticipantAdd status for the call shows Available.

The command is fully supported only on devices that are registered to the Webex cloud service or linked to Webex Edge for devices. It's not available on personal mode devices. It's not recommended to use this command for SIP calls.

### USAGE:

xCommand Conference Participant Add [CallId: CallId] [DisplayName: "DisplayName"] Number: "Number"

where

CallId:

*Integer (2..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

DisplayName:

*String (0, 255)*

The display name of the participant that's being added to the call.

Number:

*String (0, 255)*

The number or video address of the participant that's being added to the call.

## xCommand Conference Participant Admit

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Admits or lets in a participant that is waiting to be admitted into the call or meeting. This command is only available Webex registered devices.

A participant is waiting to be admitted if he has status "waiting" in the result from the Conference ParticipantList Search command (\*r ParticipantListSearchResult Participant [n] Status = "waiting").

### USAGE:

```
xCommand Conference Participant Admit CallId: CallId ParticipantId:  
ParticipantId
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

## xCommand Conference Participant Disconnect

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Disconnects the participant from a call or meeting. It is only possible to disconnect a participant if the Conference Call[n] Capabilities ParticipantDisconnect status for the meeting shows Available.

### USAGE:

```
xCommand Conference Participant Disconnect CallId: CallId ParticipantId:  
ParticipantId
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

## xCommand Conference Participant LowerHand

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Lower the hand of a participant in a conference.

### USAGE:

```
xCommand Conference Participant LowerHand CallId: CallId ParticipantId:  
ParticipantId
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.



## xCommand Conference Participant MoveToLobby

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Move a meeting participant to the lobby. Participants waiting in the lobby can't hear or see any of the shared content or interact with anyone in the meeting. You can move any participant to the lobby, except the participant with the presenter role, even if they're not currently sharing.

This command is only available on devices that are registered to the Webex cloud service or linked to Webex Edge.

### USAGE:

```
xCommand Conference Participant MoveToLobby CallId: CallId ParticipantId:  
"ParticipantId"
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

## xCommand Conference Participant Mute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Mutes the participant in the call or meeting. It is only possible to mute a participant if the Conference Call[n] Capabilities ParticipantMute status shows Available.

### USAGE:

```
xCommand Conference Participant Mute AudioMute: AudioMute CallId: CallId  
ParticipantId: "ParticipantId"
```

where

AudioMute:

*On/Off*

Indicate the desired mute state of the participant.

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

## xCommand Conference ParticipantList Search

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Returns details about the participants in the call. The results can be filtered by specifying additional parameters.

### USAGE:

```
xCommand Conference ParticipantList Search [CallId: CallId] [Limit:  
Limit] [Offset: Offset] [PartialRosterId: PartialRosterId] [SearchString:  
"SearchString"]
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run xStatus Call to see the CallId.

Default value: 0

Limit:

*Integer (0..65534)*

Limit the number of participants in the result. For example, if the limit is set to 10, the result set will contain only 10 entries even if the total number of hits is larger.

Default value: 1000

Offset:

*Integer (0..65534)*

Return a list with records starting from index X, where X is the offset.

For example, if the offset is 1, the list will start with participant 2.

Default value: 0

PartialRosterId:

*Integer (0..65534)*

For system internal use.

Default value: 0

SearchString:

*String (0,255)*

Limit the results to the participant with the specified Uri or DisplayName. Leave this parameter empty if you want the search to return all participants in the call.

Default value: ""

## xCommand Conference PeopleFocus Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Activates people focus. When people focus is active, the local layout changes dynamically by cropping away empty background and maximizing each participant's space on the screen.

People focus is only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

```
xCommand Conference PeopleFocus Activate
```

## xCommand Conference PeopleFocus Deactivate

*Applies to: All products*

Requires user role: ADMIN, USER

Deactivates people focus.

People focus is only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

```
xCommand Conference PeopleFocus Deactivate
```

## xCommand Conference Reaction Disable

*Applies to: All products*

Requires user role: ADMIN, USER

Prevents participants from reacting with emojis during a Webex meeting.

This command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference Reaction Disable [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

## xCommand Conference Reaction Enable

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Allows participants to react with emojis during a Webex meeting.

This command is available for Hosts and Cohosts of Webex meetings. The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference Reaction Enable [CallId: CallId]
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

## xCommand Conference Reaction Send

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Sends a reaction (emoji) during a Webex meeting.

The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference Reaction Send [CallId: CallId] ReactionType: ReactionType
```

where

CallId:

*Integer (0..65534)*

The CallId is a unique number used to address an active call. The CallId is returned when the Dial or Webex Join commands are run. During the call you can run xStatus Call to see the CallId.

ReactionType:

*Celebrate/Clap/Fire/Haha/Heart/Prayer/Sad/SlowDown/Smile/SpeedUp/ThumbDown/ThumbUp/Wow*

Choose the type of emoji to send.

## xCommand Conference Recording Pause

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Define if the recording of a meeting shall be paused. When you are recording a meeting, you can use this setting if you want to pause the recording. You can resume the recording by using the command Conference Recording Resume.

### USAGE:

```
xCommand Conference Recording Pause [CallId: CallId]
```

where

CallId:

*Integer (1..65534)*

Identify CallId for the remote participant.

## xCommand Conference Recording Resume

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Define if the recording of a meeting shall be resumed. When you are recording a meeting, you can use this setting if you want to resume a recording that has previously been paused.

### USAGE:

```
xCommand Conference Recording Resume [CallId: CallId]
```

where

CallId:

*Integer (1..65534)*

Identify CallId for the remote participant.

## xCommand Conference Recording Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Define if the meeting shall be recorded. Once you are in a meeting, you can use this setting if you want to start recording. Note that the recording commands are only available if your infrastructure (Cisco Meeting Server) supports recording.

### USAGE:

```
xCommand Conference Recording Start [CallId: CallId]
```

where

CallId:

*Integer (1..65534)*

Identify CallId for the remote participant.

## xCommand Conference Recording Stop

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Define if the recording of a meeting shall be stopped. When you are recording a meeting, you can use this setting to stop recording.

### USAGE:

```
xCommand Conference Recording Stop [CallId: CallId]
```

where

CallId:

*Integer (1..65534)*

Identify CallId for the remote participant.

## xCommand Conference SendEmailInvitation

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Sends a request to the meeting platform (backend) to forward a meeting invitation by e-mail to the addresses specified in the Address parameters. It is the meeting platform that will decide the content and send the e-mail, not the device.

A successful response to this command means that the backend has received and understood the request from the device. The device doesn't receive feedback whether the e-mail has been sent or received successfully.

This command only applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

### USAGE:

```
xCommand Conference SendEmailInvitation [Address: "Address"] [CallId: CallId]
```

where

Address:

*String (1, 128)*

The e-mail address of a recipient. You can add up to 10 Address parameters, each with one e-mail address.

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run xStatus Call to see the CallId.

## xCommand Conference SkinTone

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Selects the skin tone to be used for the emojis sent hereafter. Skin tones are available for reactions that use hand gestures, such as thumbs up and clapping hands. For personal mode devices the skin tone will persist between calls; for shared mode devices it will be reset when a call ends.

The device must either be registered to the Webex cloud service or linked to Webex Edge for Devices.

### USAGE:

```
xCommand Conference SkinTone SkinTone: SkinTone
```

where

SkinTone:

*Integer (1..6)*

1 is neutral (yellow), 2 is the lightest skin tone, and 6 the darkest skin tone option.

## xCommand Conference Participant TransferRole

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Meeting participants are assigned a role in meetings, for example host, cohost, guest, presenter, or

panelist. If you are a host or cohost yourself, you can transfer the role of other participants in the

call or meeting.

This command is supported only on devices that are registered to the Webex cloud service or linked

to Webex Edge for devices with the optimized experience enabled.

### USAGE:

```
xCommand Conference Participant TransferRole CallId: CallId ParticipantId:  
"ParticipantId" ParticipantRole: ParticipantRole State: State
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the

CallId.

ParticipantId:

*String (0, 255)*

Unique identifier of a participant in the call. To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search.

ParticipantRole:

*Cohost/Guest/Host/Panelist/Presenter*

The new role you want to assign to the participant identified by the ParticipantId parameter; or the role that you want to revoke from the participant. Refer to the State parameter.

State:

*False/True*

**True:** Assign the given Participant Role to the selected participant. **False:** Revoke the given Participant Role from the selected participant.

## xCommand Conference SimultaneousInterpretation SelectLanguage

*Applies to: All products*

Requires user role: ADMIN, USER

Simultaneous interpretation allows Webex meeting participants to listen to the meeting in their preferred language. The available languages depend on what the host of the meeting assigns, and are chosen during meeting set up. The language name and codes are then passed on in the data object (DTO) that is used to transfer meeting-related information from the Webex meeting backend to the meeting participants.

### USAGE:

```
xCommand Conference SimultaneousInterpretation SelectLanguage [CallId:  
CallId] [LanguageCode: LanguageCode]
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

LanguageCode:

*Integer (0..65534)*

Select the code for the language you want the device to play back. You can find the available language names and language codes in the Conference Call[n] SimultaneousInterpretation Languages[n] LanguageCode and Language Name statuses.

## xCommand Conference SimultaneousInterpretation SetMixer

*Applies to: All products*

Requires user role: ADMIN, USER

When using simultaneous interpretation and playing back another language than the original, you can mix in the original language, for example to hear the original presenter in the background.

### USAGE:

```
xCommand Conference SimultaneousInterpretation SetMixer [CallId: CallId]  
Level: Level
```

where

CallId:

*Integer (0..65534)*

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

Level:

*Integer (0..100)*

Select how much (in %) of the interpreter language to add in the mix. 0 means that you only hear the original language, 100 means that you only hear the selected interpreter language, 80 means that 80% interpreter language and 20% original language in the mix.

## xCommand Conference SpeakerLock Release

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Releases locked speaker set by xCommand Conference SpeakerLock Set. Default voice switching is switched back on.

### USAGE:

```
xCommand Conference SpeakerLock Release
```

## xCommand Conference SpeakerLock Set

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

For manually locking one of the speakers to the prominent speaker position. This overrides the default voice switching.

### USAGE:

```
xCommand Conference SpeakerLock Set Target: Target [CallId: CallId]
```

where

Target:

*Local/Remote*

Identifies local or remote participant.

CallId:

*Integer (0..65534)*

Identify CallId for the remote participant. Only relevant if Target is set to "remote".

Default value: 0

## xCommand Conference TransferHostAndLeave

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Lets you leave a meeting you are hosting, but allows the other participants to continue the meeting. A new host is assigned automatically

### USAGE:

```
xCommand Conference TransferHostAndLeave [CallId: CallId]
```

where

CallId:

*Integer (1..65534)*

Unique identifier of the call. During a call, you can run the xStatus Call command to see the CallId.

## Diagnostics commands

### xCommand Diagnostics Run

*Applies to: All products*

Requires user role: ADMIN

The device runs self-diagnostics commands regularly, several times a minute. You can manually trigger an immediate re-run of self-diagnostics by issuing the Diagnostics Start command.

#### USAGE:

```
xCommand Diagnostics Run [ResultSet: ResultSet]
```

where

ResultSet:

*Alerts/All/None*

You can filter the diagnostics results to alerts, all or none. If not set, the result will show all results.

Default value: Alerts

## Dial commands

### xCommand Dial

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Dial out from the device. Returns information about the CallId and Conferenceld, which are required for some of the other commands.

#### USAGE:

```
xCommand Dial Number: "Number" [Protocol: Protocol] [CallRate: CallRate]  
[CallType: CallType] [BookingId: "BookingId"] [Appearance: Appearance]  
[DisplayName: "DisplayName"] [TrackingData: "TrackingData"]
```

where

Number:

*String (0, 255)*

Enter the number or video address.

Protocol:

*H323/Sip/Spark*

Select a call protocol from the list.

Spark is used for calls via the Webex infrastructure.

CallRate:

*Integer (64..6000) [RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D]*

*Integer (64..20000) [RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2  
RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

*Integer (64..10000) [Board]*

Set the call rate (kbps). If not including a call rate, the rate defined in the Conference DefaultCall Rate or Conference DefaultCall Webex Rate settings will be used. The call rate will always be limited by the Conference MaxReceiveCallRate, Conference MaxTransmitCallRate, Conference MaxMultisiteReceiveRate, and Conference MaxMultiSiteTransmitRate settings, whichever applies to this call or conference.

CallType:

*Audio/Video/Auto*

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

BookingId:

*String (0, 255)*

Any identifier that an external booking system (for example, TMS or CTS-MAN) can use for its own references to match placed calls with the booking systems internal identifier for a meeting. This can be any string, for example, a GUID. The booking Id is supplied in call logs, call events etc. for the call.

Default value: ""

Appearance:

*Integer (1..999999999)*

Only for Cisco internal use.

DisplayName:

*String (0, 255)*

The display name of the remote participant.

Default value: ""

TrackingData:

*String (0, 255)*

A tag or label that will be preserved and stored in the call history.

Default value: ""

## GPIO commands

### xCommand GPIO ManualState Set

*Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

Set the state of a GPIO pin that is configured to OutputManualState mode (ref. xConfiguration GPIO Pin [1..4] Mode).

#### USAGE:

```
xCommand GPIO ManualState Set [Pin1: Pin1] [Pin2: Pin2] [Pin3: Pin3] [Pin4:  
Pin4]
```

where

Pin1:

*High/Low*

Pin2:

*High/Low*

Pin3:

*High/Low*

Pin4:

*High/Low*



## HttpClient commands

### xCommand HttpClient Allow Hostname Add

*Applies to: All products*

Requires user role: ADMIN

Adds an HTTP(S) server to the list of allowed servers (hosts).

The HttpClient Allow Hostname commands let you set up and maintain a list of up to ten allowed hosts. As long as the list is not empty, you can send HTTP(S) requests only to the servers in the list. The check against the list is performed both when using insecure (HTTP) and secure (HTTPS) transfer of data.

#### USAGE:

```
xCommand HttpClient Allow Hostname Add Expression: "Expression"
```

where

Expression:

*String (2, 200)*

Regular expression that matches a host name or IP address of an HTTP(S) server.

### xCommand HttpClient Allow Hostname Clear

*Applies to: All products*

Requires user role: ADMIN

Removes all HTTP(S) servers from the list of allowed servers (hosts), leaving you with an empty list.

#### USAGE:

```
xCommand HttpClient Allow Hostname Clear
```

### xCommand HttpClient Allow Hostname List

*Applies to: All products*

Requires user role: ADMIN

Returns the list of allowed HTTP(S) servers (hosts).

The HttpClient Allow Hostname commands let you set up and maintain a list of up to ten allowed hosts. As long as the list is not empty, you can send HTTP(S) requests only to the servers in the list. The check against the list is performed both when using insecure (HTTP) and secure (HTTPS) transfer of data.

#### USAGE:

```
xCommand HttpClient Allow Hostname List
```

### xCommand HttpClient Allow Hostname Remove

*Applies to: All products*

Requires user role: ADMIN

Removes an HTTP(S) server from the list of allowed servers (hosts). Use the HttpClient Allow Hostname List command to find the identifier of each entry in the list.

#### USAGE:

```
xCommand HttpClient Allow Hostname Remove Id: Id
```

where

Id:

*Integer (0..9)*

The identifier of the HTTP(S) server you want to remove from the list.

## xCommand HttpClient Delete

*Applies to: All products*

Requires user role: ADMIN

Sends an HTTP(S) Delete request to the server that is specified in the `Url` parameter. You can use the `AllowInsecureHTTPS` parameter to specify whether or not to validate the server's certificate before sending data over HTTPS. This parameter has no effect unless the `xConfiguration HttpClient AllowInsecureHTTPS` is set to `On`. The command returns the HTTP status code along with the data returned from the server (HTTP headers and body).

### USAGE:

```
xCommand HttpClient Delete [AllowInsecureHTTPS: AllowInsecureHTTPS] [Header: "Header"] [ResponseSizeLimit: ResponseSizeLimit] [ResultBody: ResultBody] [Timeout: Timeout] Url: "Url"
```

where

AllowInsecureHTTPS:

*False/True*

If set to `True` the device skips the certificate validation process, and sends data to the server anyway. If set to `False`, the server certificate is checked, and data is not sent to the server if the certificate validation fails.

Default value: `False`

Header:

*String (0, 3072)*

An HTTP header field. You can add up to 20 Header parameters in one command, each holding one HTTP header field.

ResponseSizeLimit:

*Integer (1..1048576)*

The maximum payload size (bytes) of the response to this request. If the response payload is larger than this maximum size, the command returns a status error with a message saying that the maximum file size is exceeded. However, this has no effect on the server side; the request was received and processed properly by the server.

Default value: `1048576`

ResultBody:

*None/PlainText/Base64*

**None:** The body of the HTTP response (if any) is not included in the command result.

**PlainText:** The body of the HTTP response is included in the command result as plain text. If the response contains non-printable characters, the command returns a status error with a message saying that non-printable data was encountered.

**Base64:** The body of the HTTP response is Base64 encoded before it is included in the command result.

Default value: `None`

Timeout:

*Integer (1..30)*

Timeout period in seconds. If the request is not completed during this period, the API will return an error.

Default value: `30`

Url:

*String (8, 2048)*

The URL that the request will be sent to: `<Protocol> + <Host name or IP address of an HTTP(S) server> + <Path>`.

## xCommand HttpClient Get

*Applies to: All products*

Requires user role: ADMIN

Sends an HTTP(S) Get request to the server that is specified in the Url parameter. You can use the AllowInsecureHTTPS parameter to specify whether or not to validate the server's certificate before sending data over HTTPS. This parameter has no effect unless the xConfiguration HttpClient AllowInsecureHTTPS is set to On. The command returns the HTTP status code along with the data returned from the server (HTTP headers and body).

### USAGE:

```
xCommand HttpClient Get [AllowInsecureHTTPS: AllowInsecureHTTPS] [Header:  
"Header"] [ResponseSizeLimit: ResponseSizeLimit] [ResultBody: ResultBody]  
[Timeout: Timeout] Url: "Url"
```

where

AllowInsecureHTTPS:

*False/True*

If set to True the device skips the certificate validation process, and sends data to the server anyway. If set to False, the server certificate is checked, and data is not sent to the server if the certificate validation fails.

Default value: False

Header:

*String (0, 3072)*

An HTTP header field. You can add up to 20 Header parameters in one command, each holding one HTTP header field.

ResponseSizeLimit:

*Integer (1..1048576)*

The maximum payload size (bytes) of the response to this request. If the response payload is larger than this maximum size, the command returns a status error with a message saying that the maximum file size is exceeded. However, this has no effect on the server side; the request was received and processed properly by the server.

Default value: 1048576

ResultBody:

*None/PlainText/Base64*

**None:** The body of the HTTP response (if any) is not included in the command result.

**PlainText:** The body of the HTTP response is included in the command result as plain text. If the response contains non-printable letters, the command returns a status error with a message saying that non-printable data was encountered.

**Base64:** The body of the HTTP response is Base64 encoded before it is included in the command result.

Default value: None

Timeout:

*Integer (1..30)*

Timeout period in seconds. If the request is not completed during this period, the API will return an error.

Default value: 30

Url:

*String (8, 2048)*

The URL that the request will be sent to: <Protocol> + <Host name or IP address of an HTTP(S) server> + <Path>.

## xCommand HttpClient Patch

*Applies to: All products*

Requires user role: ADMIN

Sends an HTTP(S) Patch request to the server that is specified in the `Url` parameter. This is a multiline command, so the payload (data) follows after the parameters. You can use the `AllowInsecureHTTPS` parameter to specify whether or not to validate the server's certificate before sending data over HTTPS. This parameter has no effect unless the `xConfiguration HttpClient AllowInsecureHTTPS` is set to On. The command returns the HTTP status code along with the data returned from the server (HTTP headers and body).

### USAGE:

```
xCommand HttpClient Patch [AllowInsecureHTTPS: AllowInsecureHTTPS] [Header: "Header"] [ResponseSizeLimit: ResponseSizeLimit] [ResponseBody: ResponseBody] [Timeout: Timeout] Url: "Url"
```

where

*AllowInsecureHTTPS*:

*False/True*

If set to True the device skips the certificate validation process, and sends data to the server anyway. If set to False, the server certificate is checked, and data is not sent to the server if the certificate validation fails.

Default value: False

*Header*:

*String (0, 3072)*

An HTTP header field. You can add up to 20 Header parameters in one command, each holding one HTTP header field.

*ResponseSizeLimit*:

*Integer (1..1048576)*

The maximum payload size (bytes) of the response to this request. If the response payload is larger than this maximum size, the command returns a status error with a message saying that the maximum file size is exceeded. However, this has no effect on the server side; the request was received and processed properly by the server.

Default value: 1048576

*ResponseBody*:

*None/PlainText/Base64*

**None:** The body of the HTTP response (if any) is not included in the command result.

**PlainText:** The body of the HTTP response is included in the command result as plain text. If the response contain non-printable letters, the command returns a status error with a message saying that non-printable data was encountered.

**Base64:** The body of the HTTP response is Base64 encoded before it is included in the command result.

Default value: None

*Timeout*:

*Integer (1..30)*

Timeout period in seconds. If the request is not completed during this period, the API will return an error.

Default value: 30

*Url*:

*String (8, 2048)*

The URL that the request will be sent to: <Protocol> + <Host name or IP address of an HTTP(S) server> + <Path>.

## xCommand HttpClient Post

*Applies to: All products*

Requires user role: ADMIN

Sends an HTTP(S) Post request to the server that is specified in the Url parameter.

You can use the AllowInsecureHTTPS parameter to specify whether or not to validate the server's certificate before sending data over HTTPS. This parameter has no effect unless the xConfiguration HttpClient AllowInsecureHTTPS is set to On.

This is a multiline command, so the payload (data) follows after the parameters.

### USAGE:

```
xCommand HttpClient Post [AllowInsecureHTTPS: AllowInsecureHTTPS] [Header: "Header"] [ResponseSizeLimit: ResponseSizeLimit] [ResultBody: ResultBody] [Timeout: Timeout] Url: "Url"
```

where

AllowInsecureHTTPS:

*False/True*

If set to True the device skips the certificate validation process, and sends data to the server anyway. If set to False, the server certificate is checked, and data is not sent to the server if the certificate validation fails.

Default value: False

Header:

*String (0, 3072)*

An HTTP header field. You can add up to 20 Header parameters in one command, each holding one HTTP header field.

ResponseSizeLimit:

*Integer (1..1048576)*

The maximum payload size (bytes) of the response to this request. If the response payload is larger than this maximum size, the command returns a status error with a message saying that the maximum file size is exceeded. However, this has no effect on the server side; the request was received and processed properly by the server.

Default value: 1048576

ResultBody:

*None/PlainText/Base64*

**None:** The body of the HTTP response (if any) is not included in the command result.

**PlainText:** The body of the HTTP response is included in the command result as plain text. If the response contains non-printable letters, the command returns a status error with a message saying that non-printable data was encountered.

**Base64:** The body of the HTTP response is Base64 encoded before it is included in the command result.

Default value: None

Timeout:

*Integer (1..30)*

Timeout period in seconds. If the request is not completed during this period, the API will return an error.

Default value: 30

Url:

*String (8, 2048)*

The URL that the request will be sent to: <Protocol> + <Host name or IP address of an HTTP(S) server> + <Path>.

## xCommand HttpClient Put

*Applies to: All products*

Requires user role: ADMIN

Sends an HTTP(S) Put request to the server that is specified in the Url parameter.

You can use the AllowInsecureHTTPS parameter to specify whether or not to validate the server's certificate before sending data over HTTPS. This parameter has no effect unless the xConfiguration HttpClient AllowInsecureHTTPS is set to On.

This is a multiline command, so the payload (data) follows after the parameters.

### USAGE:

```
xCommand HttpClient Put [AllowInsecureHTTPS: AllowInsecureHTTPS] [Header: "Header"] [ResponseSizeLimit: ResponseSizeLimit] [ResultBody: ResultBody] [Timeout: Timeout] Url: "Url"
```

where

AllowInsecureHTTPS:

*False/True*

If set to True the device skips the certificate validation process, and sends data to the server anyway. If set to False, the server certificate is checked, and data is not sent to the server if the certificate validation fails.

Default value: False

Header:

*String (0, 3072)*

An HTTP header field. You can add up to 20 Header parameters in one command, each holding one HTTP header field.

ResponseSizeLimit:

*Integer (1..1048576)*

The maximum payload size (bytes) of the response to this request. If the response payload is larger than this maximum size, the command returns a status error with a message saying that the maximum file size is exceeded. However, this has no effect on the server side; the request was received and processed properly by the server.

Default value: 1048576

ResultBody:

*None/PlainText/Base64*

**None:** The body of the HTTP response (if any) is not included in the command result.

**PlainText:** The body of the HTTP response is included in the command result as plain text. If the response contains non-printable letters, the command returns a status error with a message saying that non-printable data was encountered.

**Base64:** The body of the HTTP response is Base64 encoded before it is included in the command result.

Default value: None

Timeout:

*Integer (1..30)*

Timeout period in seconds. If the request is not completed during this period, the API will return an error.

Default value: 30

Url:

*String (8, 2048)*

The URL that the request will be sent to: <Protocol> + <Host name or IP address of an HTTP(S) server> + <Path>.

## HttpFeedback commands

### xCommand HttpFeedback Deregister

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Deregister the HTTP feedback over HTTP(S).

#### USAGE:

```
xCommand HttpFeedback Deregister FeedbackSlot: FeedbackSlot
```

where

FeedbackSlot:

*Integer (1..4)*

Deregister the feedback slot that was registered using the xCommand HttpFeedback Register command.

### xCommand HttpFeedback Enable

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Re-enables a previously registered feedback slot after it has failed and become deactivated.

#### USAGE:

```
xCommand HttpFeedback Enable FeedbackSlot: FeedbackSlot
```

where

FeedbackSlot:

*Integer (1..4)*

Specifies the feedback slot that is enabled.

### xCommand HttpFeedback Register

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Register the device to an HTTP(S) server to return XML feedback over HTTP(S) to specific URLs.

#### USAGE:

```
xCommand HttpFeedback Register FeedbackSlot: FeedbackSlot [Format: Format]  
ServerUrl: "ServerUrl" [Expression: "Expression"]
```

where

FeedbackSlot:

*Integer (1..4)*

The codec can register up to 4 slots of servers requesting HTTP feedback. Set the registering to one of them.

**Note:** Avoid using FeedbackSlot 3 in an environment where Cisco TelePresence Management Suite (TMS) is used as TMS uses this feedbackslot to register its expressions.

Format:

*XML/JSON*

Set the format for the feedback from the HTTP server to XML or JSON.

Default value: XML

ServerUrl:

*String (1, 2048)*

The URL to the HTTP server where you want the codec to post the HTTP feedback messages to.

Expression:

*String (1, 255)*

The XPath expression specifies which parts of the Status, Configuration or Event XML documents are monitored. You can have from 0 to 15 XPath expressions in the same command.

## Logging commands

### xCommand Logging AddEvent

*Applies to: All products*

Requires user role: ADMIN, USER

Add a custom message to the device's log files.

#### USAGE:

xCommand Logging AddEvent Text: "Text" Type: Type

where

Text:

*String (0, 256)*

The text that will be added to the log file.

Type:

*Error/Info/Warning*

The type of message (error, information, or warning).

### xCommand Logging ExtendedLogging Start

*Applies to: All products*

Requires user role: ADMIN, USER

Start running continuous extended logging for the specified duration.

#### USAGE:

xCommand Logging ExtendedLogging Start [Duration: Duration] [PacketDump: PacketDump] [PacketDumpRotateSize: PacketDumpRotateSize] [RenderingDump: RenderingDump]

where

Duration:

*Integer (1..600)*

Specify the length of time to perform the extended logging (in seconds).

PacketDump:

*Full/FullRotate/Limited/None*

Enable or disable the logging of packet data. These are stored in separate .pcap files.

**Full:** Log all data for three minutes.

**FullRotate:** Log all data for an hour, but with a size limit as specified in PacketDumpRotateSize.

**Limited:** Log a limited set of data. This does not include data from the RTP port range, where media files are transmitted.

**None:** Do not log packet data.

Default value: None

PacketDumpRotateSize:

*Large/Normal*

Specify the rotation size of the packet dump log file. When the file reaches this size, the file will be closed and logging will continue in a new file. Files older than the two newest log files will be deleted. PacketDumpRotateSize can only be supplied together with FullRotate and will default to Normal.

**Large:** Enable large file size (150 MB).

**Normal:** Enable normal file size (12 MB).

RenderingDump:

*Limited/None*

Enable or disable limited rendering dump. The rendering dump includes changes that cause rendering to the screen.

The output is written to osd.log and has formatting that shows which elements of the UI have caused rendering. It is written in batches of one second.

**Limited:** Enable limited rendering dumping.

**None:** No rendering dump logs will be updated.

Default value: None



## xCommand Logging ExtendedLogging Stop

*Applies to: All products*

Requires user role: ADMIN, USER

Stop running the extended logging process.

### USAGE:

```
xCommand Logging ExtendedLogging Stop [RemovePacketDump: RemovePacketDump]  
[RemoveRenderingDump: RemoveRenderingDump]
```

where

RemovePacketDump:

*True/False*

Delete or keep the packet dump log file.

**True:** Automatically delete the packet dump log file.

**False:** Do not delete the packet dump log file.

Default value: False

RemoveRenderingDump:

*True/False*

Delete or keep the rendering dump log file.

**True:** Automatically delete the rendering dump log file.

**False:** Do not delete the packet rendering log file.

Default value: False

## xCommand Logging SendLogs

*Applies to: All products*

Requires user role: ADMIN, USER

Send logs to the Webex cloud. These logs can help diagnose and fix issues with the device.

The command returns a log ID, which an administrator or TAC engineer can use to identify and download the logs.

For the command to work, the device must either be registered to the Webex cloud service or registered to an on-premises service and linked to Webex Edge for Devices.

Additionally, for devices linked to Webex Edge for Devices, the xConfiguration Logging CloudUpload Mode must be set to On.

### USAGE:

```
xCommand Logging SendLogs
```

## Macros commands

### xCommand Macros Log Clear

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Clears the Macros Logs.

### USAGE:

```
xCommand Macros Log Clear
```

### xCommand Macros Log Get

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Shows the logs for all running macros and for the runtime itself.

### USAGE:

```
xCommand Macros Log Get [Offset: Offset]
```

where

Offset:

*Integer (0..65534)*

Shows lines with the same or higher Offset than the one provided.

Default value: 0

### xCommand Macros Macro Activate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Activates a macro created on this device.

### USAGE:

```
xCommand Macros Macro Activate Name: "Name"
```

where

Name:

*String (0, 250)*

Specifies the name of the macro to activate.

## xCommand Macros Macro Deactivate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Deactivates a macro currently running on this device.

### USAGE:

```
xCommand Macros Macro Deactivate Name: "Name"
```

where

Name:

*String (0, 250)*

The name of the macro to deactivate.

## xCommand Macros Macro Get

*Applies to: All products*

Requires user role: ADMIN

Shows the details of a macro created on this device.

### USAGE:

```
xCommand Macros Macro Get [Content: Content] [Name: "Name"]
```

where

Content:

*False/True*

Shows the content for the specified Macro or not.

Default value: False

Name:

*String (0, 250)*

The name of the macro.

## xCommand Macros Macro Remove

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Removes a macro created on this device.

### USAGE:

```
xCommand Macros Macro Remove Name: "Name"
```

where

Name:

*String (0, 250)*

The name of the macro that is removed.

## xCommand Macros Macro RemoveAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Removes all of the macros created on this device.

### USAGE:

```
xCommand Macros Macro RemoveAll
```

## xCommand Macros Macro Rename

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Renames a macro created on this device.

### USAGE:

```
xCommand Macros Macro Rename Name: "Name" NewName: "NewName" [Overwrite: Overwrite]
```

where

Name:

*String (0, 250)*

The name of the macro that is renamed.

NewName:

*String (0, 250)*

The new name of the macro.

Overwrite:

*False/True*

Overwrites the existing content or not.

Default value: False

## xCommand Macros Macro Roles Set

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Sets the role for a macro.

### USAGE:

```
xCommand Macros Macro Roles Set Name: "Name" [Role: Role]
```

where

Name:

*String (0, 250)*

The name of the macro that is set.

Role:

*Admin/Audit/User/Integrator/RoomControl*

The role that is set for this macro.

Default value: Admin

## xCommand Macros Macro Save

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Saves the details of a macro. This is a multiline command.

### USAGE:

```
xCommand Macros Macro Save Name: "Name" [Overwrite: Overwrite] [Transpile: Transpile]
```

where

Name:

*String (0, 250)*

The name of the macro that is saved.

Overwrite:

*False/True*

Overwrites the existing content or not.

Default value: True

Transpile:

*False/True*

Translates current JavaScript language features into EcmaScript 5.0/5.1.

Default value: True

## xCommand Macros Runtime Restart

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Restarts all of the macros set up on this device.

### USAGE:

```
xCommand Macros Runtime Restart
```

## xCommand Macros Runtime Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Starts all of the macros set up on this device.

### USAGE:

```
xCommand Macros Runtime Start
```

## xCommand Macros Runtime Status

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Shows the current status of the macros runtime on this device.

### USAGE:

```
xCommand Macros Runtime Status
```

## xCommand Macros Runtime Stop

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Stops all of the macros set up on this device.

### USAGE:

```
xCommand Macros Runtime Stop
```

# Message commands

## xCommand Message Send

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Triggers a Message Send event which sends text to any listening clients.

### USAGE:

```
xCommand Message Send Text: "Text"
```

where

Text:

*String (0, 8192)*

The text that the message contains.

# MicrosoftTeams commands

## xCommand MicrosoftTeams Install

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

Install a Microsoft Teams installation option on the device. If required, the device first downloads new software. Then the installation, which takes about 5 minutes, starts.

### USAGE:

```
xCommand MicrosoftTeams Install Name: "Name"
```

where

Name:

*String (0, 32)*

One of the applicable options returned by the MicrosoftTeams List command, for example "MicrosoftTeamsRooms". Your device may have other options.

## xCommand MicrosoftTeams List

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

List Microsoft Teams installation options that are applicable to the device.

### USAGE:

```
xCommand MicrosoftTeams List [Show: Show]
```

where

Show:

*All/Available/Installed*

**All:** Show all options that are applicable, whether they are currently installed on the device or not.

**Available:** Only show options that are available, but not currently installed on the device.

**Installed:** Only show options that are already installed on the device.

Default value: All

## xCommand MicrosoftTeams Reset

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

Reset the Microsoft Teams applications to what is bundled with the installed Cisco firmware.

### USAGE:

```
xCommand MicrosoftTeams Reset Confirm: Confirm [IncludePeripherals:  
IncludePeripherals]
```

where

Confirm:

*Yes*

You must confirm the reset by setting this parameter to Yes.

IncludePeripherals:

*False/True*

**False:** Only reset the Microsoft Teams application on the device itself.

**True:** Reset the Microsoft Teams application both on the device itself and on a connected Room Navigator.

Default value: True

## xCommand MicrosoftTeams SoftwareUpgrade

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN

Check if it's possible to install a Microsoft Teams installation options on the RoomOS software version currently running on the device. If not, download and install a version with the required support. Where the new software image is picked from depends on your device registration, your service contract, or other.

### USAGE:

```
xCommand MicrosoftTeams SoftwareUpgrade
```

## Network commands

### xCommand Network SMTP VerifyConfig

*Applies to: RoomKitMini DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, USER

Verifies if the SMTP server is configured in the instance emails are not being sent.

#### USAGE:

```
xCommand Network SMTP VerifyConfig
```

### xCommand Network SNMP USM User Add

*Applies to: All products*

Requires user role: ADMIN

Creates a user (username and passwords) that a network management system can use to communicate with the video device using SNMP v3, User-based Security Model (USM). All USM users have equal access rights (read, read-write, or none), refer to the NetworkServices SNMP Mode setting.

Authentication and privacy are always on. That is, the device supports only the authPriv security level and the privacy protocol is always AES (Advanced Encryption Standard). This command has no effect on SNMP v2c; authentication for SNMP v2c is configured with the NetworkServices SNMP CommunityName setting.

#### USAGE:

```
xCommand Network SNMP USM User Add AuthenticationPassword:  
"AuthenticationPassword" AuthenticationProtocol: AuthenticationProtocol Name:  
Name [PrivacyPassword: PrivacyPassword]
```

where

AuthenticationPassword:

*String (8, 255)*

The authentication password for this USM user. It is used when authenticating the network management system. The authentication password is stored as a localized hashed value on the device (refer to the AuthenticationProtocol parameter).

AuthenticationProtocol:

*SHA-224/SHA-256/SHA-384/SHA-512*

The authentication hash function that will be applied before storing the authentication password on the device. The device only supports the listed hash functions (from the SHA-2 family); neither MD nor SHA-1 is supported.

Name:

*String (0, 32)*

The name of the USM user.

PrivacyPassword:

*String (8, 255)*

The privacy password for this USM user. It is used for the data encryption. The privacy password is stored as a localized hashed value (AES-128) on the device. If a privacy password is not set explicitly in this parameter, it will be the same as the authentication password (with hash function as specified in the Authentication Protocol parameter).

## xCommand Network SNMP USM User Delete

*Applies to: All products*

Requires user role: ADMIN

Deletes a USM user from the device.

### USAGE:

```
xCommand Network SNMP USM User Delete Name: "Name"
```

where

Name:

*String (0, 32)*

The name of the user that you want to delete.

## xCommand Network SNMP USM User List

*Applies to: All products*

Requires user role: ADMIN

Returns the list of all USM users that are stored on the device.

### USAGE:

```
xCommand Network SNMP USM User List
```

## xCommand Network Wifi Configure

*Applies to: All products*

Requires user role: ADMIN, USER

Configures the device to connect to a specific Wi-Fi network. This is only available if Wi-Fi is enabled on the device. You must unplug the Ethernet cable before you can connect to Wi-Fi.

The device supports access points with WPA2-only, WPA3-only, and WPA2/WPA3 transition modes for Personal or Enterprise, with SHA-128, SHA-256, or Fast Transition (802.11r) key management.

### USAGE:

```
xCommand Network Wifi Configure [AllowMissingCA: AllowMissingCA]  
[AnonymousIdentity: "AnonymousIdentity"] [Identity: "Identity"] [Password:  
"Password"] SSID: "SSID" Type: Type
```

where

AllowMissingCA:

*False/True*

The policy for allowing a Wi-Fi connection with missing Certificate Authentication (CA).

**False:** Not allowed.

**True:** Allowed

AnonymousIdentity:

*String (0, 255)*

The anonymous identity, if applicable.

Identity:

*String (0, 255)*

The username for the Wi-Fi connection, if applicable.

Password:

*String (0, 255)*

The password for the Wi-Fi connection, if applicable.

SSID:

*String (0, 255)*

The SSID for the Wi-Fi connection.

Type:

*Open/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls/Wpa2-psk*

The encryption type and authentication method for the Wi-Fi connection. We support the following types:

**Open:** Open networks (not secured)

**Wpa2-psk:** WPA2 (PSK) or WPA3 (SAE) Personal, with CCMP128 (AES) cipher.

**Wpa2-eap-fast:** WPA2 or WPA3 Enterprise, with Flexible Authentication via Secure Tunneling (EAP-FAST).

*Wpa2-eap-peap*: WPA2 or WPA3 Enterprise, with PEAP (Protected EAP) with EAP-MSCHAPv2 or EAP-GTC).

*Wpa2-eap-tls*: WPA2 or WPA3 Enterprise, with EAP Transport Layer Security (EAP-TLS).

*Wpa2-eap-ttls*: WPA2 or WPA3 Enterprise, with EAP Tunneled Transport Layer Security (EAP-TTLS).

## xCommand Network Wifi Delete

*Applies to: All products*

Requires user role: ADMIN, USER

Deletes the specified Wi-Fi network connection from the device. This command is only available if Wi-Fi services are turned on and ethernet is disconnected.

### USAGE:

```
xCommand Network Wifi Delete SSID: "SSID"
```

where

SSID:

*String (0, 255)*

The SSID for the Wi-Fi connection.

## xCommand Network Wifi List

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the details of the current Wi-Fi connection. This command is only available if Wi-Fi services are turned on and ethernet is disconnected.

### USAGE:

```
xCommand Network Wifi List
```

## xCommand Network Wifi Scan Start

*Applies to: All products*

Requires user role: ADMIN, USER

Scans for available Wi-Fi networks.

### USAGE:

```
xCommand Network Wifi Scan Start [Duration: Duration]
```

where

Duration:

*Integer (1..120)*

The duration of the Wi-Fi scan, in seconds.

Default value: 10

## xCommand Network Wifi Scan Stop

*Applies to: All products*

Requires user role: ADMIN, USER

Stops an ongoing Wi-Fi scan.

### USAGE:

```
xCommand Network Wifi Scan Stop
```



## Peripherals commands

### xCommand Peripherals Connect

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Register peripherals, such as control systems and touch controllers, to the video device. The registered peripherals are displayed on the web interface under Configuration > Peripherals.

This command should be used when the peripheral connects to the device for the first time or when the software version on the peripheral has changed. The list of connected peripherals is available in the Peripherals ConnectedDevice [n] Status status.

#### USAGE:

```
xCommand Peripherals Connect [DRAM: DRAM] [HardwareInfo: "HardwareInfo"]
ID: "ID" [Name: "Name"] [NetworkAddress: "NetworkAddress"] [SerialNumber:
"SerialNumber"] [SoftwareInfo: "SoftwareInfo"] Type: Type
```

where

DRAM:

*Integer (1..256)*

The peripheral's memory (DRAM) size, in GByte.

HardwareInfo:

*String (0, 100)*

The peripheral's hardware number.

Default value: ""

ID:

*String (1, 100)*

A unique ID for the peripheral, typically a MAC address.

Name:

*String (0, 100)*

Define a name for the peripheral.

Default value: ""

NetworkAddress:

*String (0, 100)*

Network address for the peripheral.

Default value: ""

SerialNumber:

*String (0, 100)*

The peripheral's serial number.

Default value: ""

SoftwareInfo:

*String (0, 100)*

The version of the software that the peripheral is running.

Default value: ""

Type:

*AudioAmplifier/AudioMicrophone/Byod/Camera/ControlSystem/Other/  
PersistentWebApp/RoomScheduler/TouchPanel*

Define the type of peripheral.

A Room Navigator can be in different modes: If used as a standard user interface for the video device choose TouchPanel; if used as a room booking device, choose RoomScheduler; if running a persistent web app, choose PersistentWebApp.

### xCommand Peripherals DeviceManagement Disable

*Applies to: All products*

Requires user role: ADMIN

Disable management of a paired Room Navigator. Any created user accounts will be removed, you don't have access to the Navigator web interface, and you can't connect to the Navigator via SSH.

#### USAGE:

```
xCommand Peripherals DeviceManagement Disable ID: "ID"
```

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

## xCommand Peripherals DeviceManagement Enable

*Applies to: All products*

Requires user role: ADMIN

Enable management of a paired Room Navigator. When management is enabled, you can create and manage user accounts on the Navigator. Then you can access the Navigator's web interface (HTTPS) or SSH into it for additional management.

This may be useful if you want to configure local certificates, change the screen brightness, or change other configurations of the Navigator.

### USAGE:

xCommand Peripherals DeviceManagement Enable ID: "ID"

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

## xCommand Peripherals HeartBeat

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

When a peripheral is registered to the video device, you can set the peripheral to send a heart beats to the device to let it know that the peripheral is still connected. This will keep the peripheral on the xStatus Peripherals ConnectedDevice list.

If the peripheral is not set to send heart beats, the peripheral will disappear from the list after a while.

Note: Does not apply to cameras.

### USAGE:

xCommand Peripherals HeartBeat ID: "ID" [Timeout: Timeout]

where

ID:

*String (1, 100)*

A unique ID for the peripheral, typically a MAC address.

Timeout:

*Integer (1..65535)*

Set for how long (in seconds) the peripheral will send heart beats.

Default value: 60

## xCommand Peripherals List

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Lists all currently and previously connected peripherals.

### USAGE:

xCommand Peripherals List [Connected: Connected] [Type: Type]

where

Connected:

*False/True*

Limit the search to currently connected peripherals.

Type:

*All/AudioAmplifier/AudioMicrophone/ControlSystem/Other/TouchPanel*

Limit the search by device type.

Default value: All

## xCommand Peripherals Pairing PinPairing Start

*Applies to: All products*

Requires user role: ADMIN

When connecting a touch controller to a video device across the network, you can pair by using a PIN or a passphrase. To initiate pairing by PIN, issue this command.

### USAGE:

```
xCommand Peripherals Pairing PinPairing Start [Duration: Duration]  
[PinVisibleOnScreen: PinVisibleOnScreen] [Retries: Retries]
```

where

Duration:

*Integer (1..2880)*

How long the pairing process will be active (minutes).

Default value: 60

PinVisibleOnScreen:

*False/True*

Whether the PIN will be visible on the main screen connected to the video device. If this is false, the administrator must provide the PIN to the person at the touch controller screen.

Default value: False

Retries:

*Integer (1..10)*

How many invalid attempts will be allowed before a new PIN must be generated.

Default value: 3

## xCommand Peripherals Pairing PinPairing Stop

*Applies to: All products*

Requires user role: ADMIN

Stop the pin pairing process.

### USAGE:

```
xCommand Peripherals Pairing PinPairing Stop
```

## xCommand Peripherals Pairing Unpair

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this software version.

### USAGE:

```
xCommand Peripherals Pairing Unpair MacAddress: "MacAddress"
```

where

MacAddress:

*String (1, 100)*

The peripheral's MAC address.

## xCommand Peripherals Purge

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this software version.

### USAGE:

```
xCommand Peripherals Purge ID: "ID"
```

where

ID:

*String (1, 100)*

The peripheral's MAC address.

## xCommand Peripherals TouchPanel Configure

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

A Room Navigator can operate in different modes: As standard user interface for the video device (controller), as a room booking device (room scheduler), or to display a persistent web app. The information, buttons, and controls displayed on the Room Navigator screen depend on the mode.

You can also add information whether the Room Navigator is in the same room as the device, or if it is outside the room. Information about the location is useful when collecting and processing sensor data from the unit, for example, temperature and air quality.

Controller + InsideRoom, RoomScheduler + OutsideRoom, and PersistentWebApp + OutsideRoom are the most common combinations.

In most cases the mode and location of the Room Navigator are entered in the startup wizard when setting up the device for the first time. The intended use of this command is when you want to make changes to these parameters after the first-time setup.

### USAGE:

```
xCommand Peripherals TouchPanel Configure ID: "ID" [Location: Location] [Mode: Mode]
```

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Location:

*InsideRoom/OutsideRoom*

**InsideRoom:** The Room Navigator is in the same room as the video device.

**OutsideRoom:** The Room Navigator is outside the room.

Mode:

*Controller/PersistentWebApp/RoomScheduler*

**Controller:** The Room Navigator is the standard user interface of the video device.

**PersistentWebApp:** A third-party web application (persistent web app) is running on the Room Navigator (only available if the Room Navigator is connected to the device over the network).

**RoomScheduler:** The Room Navigator is used for room booking.

## xCommand Peripherals UserManagement User Add

*Applies to: All products*

Requires user role: ADMIN

Adds a new user to the peripheral (Room Navigator) that is identified by the ID parameter.

### USAGE:

```
xCommand Peripherals UserManagement User Add [Active: Active]  
[ClientCertificateDN: "ClientCertificateDN"] ID: "ID" Passphrase: "Passphrase"  
[PassphraseChangeRequired: PassphraseChangeRequired] Role: Role [ShellLogin: ShellLogin]  
Username: "Username" [YourPassphrase: "YourPassphrase"]
```

where

Active:

*False/True*

Specifies whether this is an active user or not.

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Passphrase:

*String (0, 255)*

The passphrase for the user.

PassphraseChangeRequired:

*False/True*

Specifies whether the user must change his passphrase on the next sign-in.

Role:

*Admin/Audit/Integrator/RoomControl/User*

Sets the user's role(s). You can assign more than one role to a user by adding multiple Role parameters.

ShellLogin:

*False/True*

Specifies whether the user should have a shell login or not.

Username:

*String (0, 127)*

The user's username.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command. You must always confirm the operation with your own password when creating a user with Admin rights.

## xCommand Peripherals UserManagement User Delete

*Applies to: All products*

Requires user role: ADMIN

Deletes a user from the peripheral (Room Navigator) that is identified by the ID parameter.

### USAGE:

xCommand Peripherals UserManagement User Delete ID: "ID" Username: "Username"  
[YourPassphrase: "YourPassphrase"]

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Username:

*String (0, 127)*

The username of the user that will be deleted.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand Peripherals UserManagement User Get

*Applies to: All products*

Requires user role: ADMIN

Shows the details of a user on the peripheral (Room Navigator) that is identified by the ID parameter. You must supply either a Username or ClientCertificateDN to identify the user.

### USAGE:

xCommand Peripherals UserManagement User Get [ClientCertificateDN:  
"ClientCertificateDN"] ID: "ID" [Username: "Username"]

where

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Username:

*String (0, 127)*

Specify a username to show the details of a particular user.

## xCommand Peripherals UserManagement User List

*Applies to: All products*

Requires user role: ADMIN

Shows the list of users on the peripheral (Room Navigator) that is identified by the ID parameter.

### USAGE:

xCommand Peripherals UserManagement User List ID: "ID" [Limit: Limit] [Offset: Offset]

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Limit:

*Integer (0..65536)*

Limits the number of users that are shown to this number. 0 means no limit, i.e, all users are listed.

Default value: 0

Offset:

*Integer (0..65536)*

Shows a list with users starting from index X, where X is the Offset. That is, the first X-1 users are not shown.

Default value: 0

## xCommand Peripherals UserManagement User Modify

*Applies to: All products*

Requires user role: ADMIN

Modifies the details of a particular user.

### USAGE:

xCommand Peripherals UserManagement User Modify [Active: Active]  
[AddRole: AddRole] [ClientCertificateDN: "ClientCertificateDN"] ID: "ID" [PassphraseChangeRequired: PassphraseChangeRequired] [RemoveRole: RemoveRole] [ShellLogin: ShellLogin] Username: "Username" [YourPassphrase: "YourPassphrase"]

where

Active:

*False/True*

Specifies whether this is an active user or not.

AddRole:

*Admin/Audit/Integrator/RoomControl/User*

Adds a new role for the specified user.

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

PassphraseChangeRequired:

*False/True*

Specifies whether the user must change his passphrase on the next sign-in.

RemoveRole:

*Admin/Audit/Integrator/RoomControl/User*

Removes a role from the specified user.

ShellLogin:

*False/True*

Specifies whether the user should have a shell login or not.

Username:

*String (0, 127)*

The user's username.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand Peripherals UserManagement User Passphrase Set

*Applies to: All products*

Requires user role: ADMIN

Set a passphrase for the specified user. You must be signed in as an administrator to set a user's passphrase.

### USAGE:

xCommand Peripherals UserManagement User Passphrase Set ID: "ID"  
NewPassphrase: "NewPassphrase" Username: "Username" [YourPassphrase:  
"YourPassphrase"]

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

NewPassphrase:

*String (0, 255)*

The passphrase you are changing to (new).

Username:

*String (0, 127)*

The username of the user you are setting a new passphrase for.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand Peripherals UserManagement User Unblock

*Applies to: All products*

Requires user role: ADMIN

Unblocks a user who is blocked out because of too many failed login attempts.

### USAGE:

xCommand Peripherals UserManagement User Unblock ID: "ID" Username:  
"Username" [YourPassphrase: "YourPassphrase"]

where

ID:

*String (1, 100)*

A unique ID for the Room Navigator that is connected to the device, typically its MAC address. Refer to the Peripherals ConnectedDevice [n] ID status.

Username:

*String (0, 127)*

The username of the user that will be unblocked.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

# Phonebook commands

## xCommand Phonebook Contact Add

*Applies to: All products*

Requires user role: ADMIN, USER

Add a new contact to the local phonebook. The command returns the ContactId, which is a unique string that identifies the contact; typically, the format is "localContactId-n".

You can add several contact methods (each with different Number, CallRate, CallType, Device, and Protocol) to a contact using the xCommand Phonebook ContactMethod Add command. Only the first contact method will appear in the Favorites list on the touch controller. All contact methods are available on the other UIs.

### USAGE:

```
xCommand Phonebook Contact Add Name: "Name" [Number: "Number"] [CallRate: "CallRate"] [CallType: "CallType"] [Device: "Device"] [FolderId: "FolderId"] [ImageURL: "ImageURL"] [Protocol: Protocol] [Tag: Tag] [Title: "Title"]
```

where

Name:

*String (0, 255)*

The name of the contact.

Number:

*String (0, 255)*

The number or video address of the contact.

CallRate:

*Integer (0..6000)*

Set the call rate (kbps) to use when calling this contact.

CallType:

*Audio/Video/Auto*

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

Device:

*Mobile/Other/Telephone/Video/Work*

Select the value that describes the current contact method. This makes it easier to find the correct entry when there are multiple contact methods for the same person.

FolderId:

*String (0, 255)*

The unique identifier for the folder that you want to store the contact in. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued to make the folder.

ImageURL:

*String (0, 255)*

Currently not in use.

Protocol:

*Auto/H323/SIP/Spark*

Select a call protocol from the list.

Spark is used for devices that are using the Webex infrastructure.

Tag:

*Untagged/Favorite*

Tag the contact as a Favorite, or untag an already tagged contact.

Title:

*String (0, 255)*

The title of the contact.

## xCommand Phonebook Contact Delete

*Applies to: All products*

Requires user role: ADMIN, USER

Delete an existing contact from the local phonebook.

### USAGE:

```
xCommand Phonebook Contact Delete ContactId: "ContactId"
```

where

ContactId:

*String (0, 255)*

The unique identifier for the contact. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Contact Add command was issued to make the contact.



## xCommand Phonebook Contact Modify

*Applies to: All products*

Requires user role: ADMIN, USER

Modify contact details of an existing contact in the local phonebook. The following parameters can be changed using this command: Name, FolderId, ImageURL and Title. You must use the xCommand Phonebook ContactMethod Modify command to change the other parameters: Number, Protocol, CallRate, CallType and Device.

### USAGE:

```
xCommand Phonebook Contact Modify ContactId: "ContactId" [Name: "Name"]  
[FolderId: "FolderId"] [ImageURL: "ImageURL"] [Tag: "Tag"] [Title: "Title"]
```

where

ContactId:

*String (0, 255)*

The unique identifier for the contact you want to modify. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Contact Add command was issued to make the contact.

Name:

*String (0, 255)*

The name of the contact.

FolderId:

*String (0, 255)*

A unique identifier for the folder. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued.

ImageURL:

*String (0, 255)*

Currently not in use.

Tag:

*Untagged/Favorite*

Tag the contact as a Favorite, or untag an already tagged contact.

Title:

*String (0, 255)*

The title of the contact.

## xCommand Phonebook ContactMethod Add

*Applies to: All products*

Requires user role: ADMIN, USER

Add contact details for an existing contact in the local phonebook. The command returns the ContactMethodId, which is a unique string that identifies the contact method; typically, the format is "n".

You can add several contact methods to a contact. Note that only the first contact method will appear in the Favorites list on the device's user interface. The first contact method may have been created when issuing the xCommand Phonebook Contact Add command to make the contact. All contact methods are available in the API and on the web interface.

### USAGE:

```
xCommand Phonebook ContactMethod Add ContactId: "ContactId" [CallRate:  
CallRate] [CallType: "CallType"] [Device: "Device"] Number: "Number" [Protocol:  
Protocol]
```

where

ContactId:

*String (0, 255)*

The unique identifier for the contact that you want to add a contact method to. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Contact Add command was issued to make the contact.

CallRate:

*Integer (0..6000)*

Set the call rate (kbps) to use when calling this contact.

CallType:

*Audio/Video/Auto*

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

Default value: Auto

Device:

*Mobile/Other/Telephone/Video/Work*

Select the value that describes the current contact method. This makes it easier to find the correct entry when there are multiple contact methods for the same person.

Number:

*String (0, 255)*

The number or video address of the contact.

Protocol:

*Auto/H323/SIP/Spark*

Select a call protocol from the list.

Spark is used for devices that are using the Webex infrastructure.

## xCommand Phonebook ContactMethod Delete

*Applies to: All products*

Requires user role: ADMIN, USER

Delete a contact method from an existing contact in the local phonebook.

### USAGE:

```
xCommand Phonebook ContactMethod Delete ContactId: "ContactId"  
ContactMethodId: "ContactMethodId"
```

where

ContactId:

*String (0, 255)*

The unique identifier for the contact you want to change. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Contact Add command was issued to make the contact.

ContactMethodId:

*String (0, 255)*

The unique identifier for the contact method you want to delete. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook ContactMethod Add command was issued to make the contact method.

## xCommand Phonebook ContactMethod Modify

*Applies to: All products*

Requires user role: ADMIN, USER

Modify details about the contact method for an existing contact in the local phonebook.

### USAGE:

```
xCommand Phonebook ContactMethod Modify ContactId: "ContactId"  
ContactMethodId: "ContactMethodId" [Device: Device] [Number: "Number"]  
[Protocol: Protocol] [CallRate: CallRate] [CallType: CallType]
```

where

ContactId:

*String (0, 255)*

The unique identifier for the contact. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Contact Add command was issued to make the contact.

ContactMethodId:

*String (0, 255)*

The unique identifier for the contact method you want to modify. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook ContactMethod Add or xCommand Phonebook Contact Add commands were issued to make the contact method.

Device:

*Mobile/Other/Telephone/Video/Work*

Select the value that describes the current contact method. This makes it easier to find the correct entry when there are multiple contact methods for the same person.

Number:

*String (0, 255)*

The number or video address of the contact.

Protocol:

*Auto/H323/SIP/Spark*

Select a call protocol from the list.

Spark is used for devices that are using the Webex infrastructure.

CallRate:

*Integer (0..6000)*

Set the call rate (kbps) to use when calling this contact.

CallType:

*Audio/Video/Auto*

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

Default value: Auto

## xCommand Phonebook Folder Add

*Applies to: All products*

Requires user role: ADMIN, USER

Phonebook entries can be stored in folders. Use this command to add a folder to the local phonebook. The command returns the FolderId, which is a unique string that identifies the folder; typically, the format is "localGroupId-n".

### USAGE:

```
xCommand Phonebook Folder Add Name: "Name" [ParentFolderId: "ParentFolderId"]
```

where

Name:

*String (0, 255)*

The name of the folder.

ParentFolderId:

*String (0, 255)*

The unique identifier for the parent folder. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued to make the parent folder.

## xCommand Phonebook Folder Delete

*Applies to: All products*

Requires user role: ADMIN, USER

Delete an existing folder from the local phonebook.

### USAGE:

```
xCommand Phonebook Folder Delete FolderId: "FolderId"
```

where

FolderId:

*String (0, 255)*

The unique identifier for the folder. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued to make the folder.

## xCommand Phonebook Folder Modify

*Applies to: All products*

Requires user role: ADMIN, USER

Modify an existing phonebook folder.

### USAGE:

```
xCommand Phonebook Folder Modify FolderId: "FolderId" [Name: "Name"]  
[ParentFolderId: "ParentFolderId"]
```

where

FolderId:

*String (0, 255)*

The unique identifier for the folder. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued to make the folder.

Name:

*String (0, 255)*

The name of the contact.

ParentFolderId:

*String (0, 255)*

The unique identifier for the parent folder. The identifier will be returned by an xCommand Phonebook Search command. It was also returned when the xCommand Phonebook Folder Add command was issued to make the parent folder.

## xCommand Phonebook Search

*Applies to: All products*

Requires user role: ADMIN, USER

The search command lets you search in both the local and corporate phonebooks. A search gives a ResultSet.

The total number of folders and contacts (TotalRows) is always included in the result set when searching the local phonebook. When searching a corporate phonebook the total number of folders and contacts may not be included. Whether it is included or not depends on the backend corporate phonebook service (for example, Webex, CUCM, VCS, or TMS) and its version.

### USAGE:

```
xCommand Phonebook Search [PhonebookId: "PhonebookId"] [PhonebookType:
PhonebookType] [SearchString: "SearchString"] [SearchField: SearchField]
[SearchFilter: SearchFilter] [ContactType: ContactType] [Offset: Offset]
[FolderId: "FolderId"] [Limit: Limit] [ContactMethodLimit: ContactMethodLimit]
[Recursive: Recursive] [Tag: Tag]
```

where

PhonebookId:

*String (0, 255)*

The identifier of the phonebook server that will be searched. See the xConfiguration Phonebook Server ID setting.

PhonebookType:

*Corporate/Local*

Define whether to search the local phonebook or the corporate phonebook.

Default value: Local

SearchString:

*String (0, 255)*

Search for entries containing this string (the entry doesn't have to begin with the string). If no FolderId is specified, all folders / phonebook directories will be searched.

SearchField:

*Name/Number*

Currently not in use.

SearchFilter:

*All/People/Pmr/Rooms*

Filter search results by choosing the type of results you want to see. This parameter is available only for devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

**All:** Search in all directories.

**People:** Filter results to include only people.

**Pmr:** Filter results to include only Personal Meeting Rooms.

**Rooms:** Filter results to include only rooms/devices.

ContactType:

*Any/Folder/Contact*

Search all contact types, or limit the search to folders or individual contacts.

Default value: Any

Offset:

*Integer (0..65534)*

Get records starting with this offset in a search. The default value is 0. Offset is used together with Limit to support paging.

Default value: 0

FolderId:

*String (0, 255)*

Search only in the specified folder. The FolderId (string) is listed in the ResultSet of a search result containing folders.

Limit:

*Integer (0..65534)*

Limit the number of records in the result set to this number. The maximum limit is 100 for corporate phonebooks (PhonebookType: Corporate) if the device is registered to the Webex cloud service or linked to Webex Edge for devices. Otherwise, the maximum limit is 1000. For Webex, note that the limit applies to each type of result (for example, "person" or "room"). That is, if you set the limit to 20, the result set may contain up to 20 persons plus 20 rooms. Also refer to the SearchFilter parameter.

Default value: 50

ContactMethodLimit:

*Integer (0..10)*

Limit the number of records in the result set to this number. For example, if the limit is set to 2, the ResultSet will contain only 2 entries even if the total number of hits is larger.

Default value: 0

Recursive:

*False/True*

This parameter will only have effect when searching the local phonebook. The setting determines whether a local phonebook search should be limited to the given FolderId, or also recursively search in its subfolders. If not specified, the search will be recursive.

When issuing the command without specifying any parameters, all folders, contacts and contact methods in the local phonebook will be returned.

Default value: True

Tag:

*Untagged/Favorite*

Limits the search to contacts that have been tagged as favorite or the untagged contacts.

## Presentation commands

### xCommand Presentation Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Open a media stream from the selected presentation source.

You can combine multiple presentation sources in a single presentation video stream (the maximum number of different input sources depend on the type of video device) by adding multiple ConnectorId or PresentationSource parameters in the same command. The order in which you place them in the command determines the order in which the sources show up on the screen. You cannot use a mix of identifier types in the same command; use either ConnectorId or PresentationSource.

#### USAGE:

```
xCommand Presentation Start [ConnectorId: ConnectorId] [Instance: Instance]
[Layout: Layout] [PresentationSource: PresentationSource] [SendingMode:
SendingMode]
```

where

ConnectorId:

*Integer (1..6) [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*Integer (1..4) [RoomKitEQX CodecEQ]*

*Integer (1..3) [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]*

*Integer (1..2) [RoomKit RoomKitMini DeskMini Board]*

Select the video input source to be used for presentation, identified by connectorId.

Instance:

*New/1/2/3/4/5/6*

You can have multiple presentations running simultaneously, as instances. The instance number is set automatically or can be specified by you. This number can then be used to stop a specific presentation.

Layout:

*Equal/Prominent*

Select the layout of the presentation if the stream is composed of multiple input sources.

**Equal:** The presentations are shown in same-sized images. There can be a maximum of four images on screen.

**Prominent:** The first presentation source is shown as a large image, and the next presentation sources are shown as smaller images placed below.

Default value: Equal

PresentationSource:

*None/AirPlay/Miracast/Remote/1/2/3/4/5/6 [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*None/AirPlay/Miracast/Remote/1/2/3/4 [RoomKitEQX CodecEQ]*

*None/AirPlay/Miracast/Remote/1/2/3 [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]*

*None/AirPlay/Miracast/Remote/1/2 [RoomKit RoomKitMini DeskMini Board]*

Select the video source to be used for presentation.

*n:* The video input source to be used for presentation, identified by source number.

**Miracast:** Wireless sharing using Miracast.

**Airplay:** Wireless sharing using AirPlay.

**None:** None can only be used when you have multiple PresentationSource parameters in the same command, and at least one of the other PresentationSource parameters have a value different from None. None means that a black frame is inserted in the composed stream.

**Remote:** Wireless sharing from a Webex app that is paired with the device.

SendingMode:

*LocalRemote/LocalOnly*

Select whether the presentation is shown local and/or remote.

**LocalRemote:** The presentation is shown both local and remote.

**LocalOnly:** The presentation is shown locally.

Default value: LocalRemote

## xCommand Presentation Stop

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Stop the media stream from the presentation source.

### USAGE:

```
xCommand Presentation Stop [Instance: Instance] [PresentationSource:
PresentationSource]
```

where

Instance:

1/2/3/4/5/6

When you have multiple presentations running, specify which presentation instance you wish to stop. The instance number is determined when the presentation is started.

PresentationSource:

*None/AirPlay/Miracast/Remote/1/2/3/4/5/6* [ *CodecPro Room70G2 RoomPanorama/Room70Panorama* ]

*None/AirPlay/Miracast/Remote/1/2/3/4* [ *RoomKitEQX CodecEQ* ]

*None/AirPlay/Miracast/Remote/1/2/3* [ *RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2* ]

*None/AirPlay/Miracast/Remote/1/2* [ *RoomKit RoomKitMini DeskMini Board* ]

Select the presentation stream you want to stop. See the Presentation Start command for more details.

*n*: The presentation input source, identified by source number.

**Miracast**: The stream that's shared using Miracast.

**Airplay**: The stream that's shared using AirPlay.

**None**: The black frame that's inserted in a composed stream.

**Remote**: The stream that's shared from a Webex app that is paired with the device.

## Provisioning commands

### xCommand Provisioning CompleteUpgrade

*Applies to: All products*

Requires user role: ADMIN, USER

Starts installing the software upgrade if you wish to install it before it is set to do so.

### USAGE:

```
xCommand Provisioning CompleteUpgrade
```

### xCommand Provisioning PostponeUpgrade

*Applies to: All products*

Requires user role: ADMIN, USER

Postpones the installing of the software upgrade.

### USAGE:

```
xCommand Provisioning PostponeUpgrade [Reason: "Reason"] SecondsToPostpone:
SecondsToPostpone
```

where

Reason:

*String (0, 255)*

Provide information about why the upgrade was postponed.

SecondsToPostpone:

*Integer (0..65534)*

Set how long to postpone the upgrade. The value is in seconds.

## xCommand Provisioning CUCM ExtensionMobility Login

*Applies to: All products*

Requires user role: ADMIN, USER

Sign-in command for the Extension Mobility service. You sign in to the Extension Mobility service with a username (UserId) and pin code (Pin). The username and pin code are set up in CUCM. CUCM also supports multiple profiles for a user.

If you, for a user that has multiple profiles, submit a login command with only username and pin code, CUCM will send a list of available profiles back to the device. Then the device will create corresponding ExtensionMobilityProfileSelection Profile events, so that a new login command, which contains the Profile parameter in addition to the username and pin code, can be submitted.

### USAGE:

```
xCommand Provisioning CUCM ExtensionMobility Login UserId: "UserId" Pin: "Pin"  
[Profile: "Profile"]
```

where

UserId:

*String (1, 255)*

A valid username, as set up in CUCM.

Pin:

*String (1, 255)*

A valid pin code for the user, as set up in CUCM.

Profile:

*String (1, 255)*

A valid profile for the user, as set up in CUCM. This parameter applies only if the user has multiple profiles.

## xCommand Provisioning CUCM ExtensionMobility Logout

*Applies to: All products*

Requires user role: ADMIN, USER

This command will log you out of your Extension Mobility profile.

### USAGE:

```
xCommand Provisioning CUCM ExtensionMobility Logout
```

## xCommand Provisioning RoomType Activate

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Activate a room type template. You can choose a room type template in the web interface.

### USAGE:

```
xCommand Provisioning RoomType Activate Name: Name
```

where

Name:

*Briefing/Classroom/PresenterAndAudience/Standard [RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2]*

*Classroom/PresenterAndAudience/Standard [CodecPlus Room70/Room55D]*

**Briefing:** Activate the briefing room template.

**Classroom:** Activate the classroom template.

**PresenterAndAudience:** Activate the presenter and audience template.

**Standard:** Turn off room templates.

## xCommand Provisioning Service Fetch

*Applies to: All products*

Requires user role: ADMIN

Add or update the customization template that details the custom elements of the device. Examples of custom elements are: branding images, macros, favorites, sign-in banner, and in-room control panels.

### USAGE:

```
xCommand Provisioning Service Fetch [Checksum: "Checksum"] [ChecksumType: ChecksumType] [Mode: Mode] [Origin: Origin] URL: "URL"
```

where

Checksum:

*String (0, 128)*

The checksum is used to ensure the integrity of the downloaded customization template. When using HTTP, it is mandatory to add a checksum. When using HTTPS, it is mandatory to add a checksum only if you are downloading the template from a server that presents an unsigned certificate, or a self-signed certificate that is not in the CA list of the device (not trusted).

ChecksumType:

*SHA512*

The algorithm that is used to calculate the checksum.

Default value: SHA512

Mode:

*Add/Replace*

If the mode is set to Add, all items listed in the uploaded file are added to the existing customization template. If the mode is set to Replace, the newer customization template that is uploaded, is compared against the previously uploaded template. Items that are not present in the newer file are removed. In both cases, items with the same name are overwritten.

Default value: Add

Origin:

*Other/Provisioning*

Specifies whether the customization template is used for provisioning or for another purpose. When the value is Provisioning, the configurations (xConfiguration) in the template are ignored, and the provisioning system (CUCM or TMS) can set configurations like they normally do. CUCM always acts as if this parameter is set to Provisioning.

Note that some configurations may be specific to one device, and you may end up with devices that you cannot reach if you provision those configurations to more than one device.

Default value: Other

URL:

*String (0, 2048)*

The URL of the customization template.



## Proximity commands

### xCommand Proximity Services Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Reactivate the Proximity services that were deactivated with xCommand Proximity Services Deactivate.

#### USAGE:

```
xCommand Proximity Services Activate
```

### xCommand Proximity Services Deactivate

*Applies to: All products*

Requires user role: ADMIN, USER

This command deactivates all proximity services on the device. To reactivate proximity services use the command xCommand Proximity Services Activate.

#### USAGE:

```
xCommand Proximity Services Deactivate
```

## RoomCleanup commands

### xCommand RoomCleanup Cancel

*Applies to: All products*

Requires user role: ADMIN, USER

Cancel the scheduled daily room cleanup.

#### USAGE:

```
xCommand RoomCleanup Cancel
```

### xCommand RoomCleanup Run

*Applies to: All products*

Requires user role: ADMIN, USER

Run a cleanup of the specified type of data, as applicable.

#### USAGE:

```
xCommand RoomCleanup Run [ContentType: ContentType] [Delay: Delay]
```

where

#### ContentType:

*TemporaryAccounts/WebData/Whiteboards*

The type of data to be deleted.

**TemporaryAccounts:** Delete any temporary accounts that may be logged-in on the device (for example, a OneDrive account accessed through an Enterprise Content Management (ECM) service).

**Whiteboards:** Delete all whiteboards on the device.

**WebData:** Delete all web browsing data on the device.

Default value: 0

#### Delay:

*Integer (0..60)*

The time delay before cleanup begins (seconds).

Default value: 0

## RoomPreset commands

### xCommand RoomPreset Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Activate one of the locally stored presets.

Note that information about all video input sources, and pan, tilt, zoom and focus values for all cameras are included in the same preset. In contrast, the xCommand Camera Preset commands applies to individual cameras only.

#### USAGE:

```
xCommand RoomPreset Activate PresetId: PresetId
```

where

PresetId:

*Integer (1..15)*

The ID of the preset you want to activate.

### xCommand RoomPreset Clear

*Applies to: All products*

Requires user role: ADMIN, USER

Delete a preset.

Note that information about all video input sources, and pan, tilt, zoom and focus values for all cameras are included in the same preset. In contrast, the xCommand Camera Preset commands applies to individual cameras only.

#### USAGE:

```
xCommand RoomPreset Clear PresetId: PresetId
```

where

PresetId:

*Integer (1..15)*

The ID of the preset you want to delete.

### xCommand RoomPreset Store

*Applies to: All products*

Requires user role: ADMIN, USER

Store the connector selections for all video input sources and the current position (pan and tilt), zoom and focus values for all cameras.

Note that information about all video input sources, and pan, tilt, zoom and focus values for all cameras are included in the same preset. The device may hold 15 such predefined video input presets. These presets are available for far end control. That is, they are referred in the PresetId parameter of the FarEndControl Preset Activate command. In contrast, the Camera Preset commands applies to individual cameras only. Those presets are not available for far end control.

#### USAGE:

```
xCommand RoomPreset Store [Description: "Description"] PresetId: PresetId
```

Type: Type

where

Description:

*String (0, 255)*

Enter a description of the camera preset.

PresetId:

*Integer (1..15)*

The ID of this preset.

Type:

*All/Camera*

Not applicable. If you want to ensure that a preset only affects camera positions we recommend that you select Camera.

# Security commands

## xCommand Security Certificates CA Add

*Applies to: All products*

Requires user role: ADMIN

Uploads CA security certificates to this device. This is a multiline command.

### USAGE:

```
xCommand Security Certificates CA Add
```

## xCommand Security Certificates CA Delete

*Applies to: All products*

Requires user role: ADMIN

Deletes a CA security certificate from this device.

### USAGE:

```
xCommand Security Certificates CA Delete Fingerprint: "Fingerprint"
```

where

Fingerprint:

*String (0, 128)*

The unique Identifier for the certificate that is deleted. You can get the fingerprint ID by running xCommand Security Certificates CA Show.

## xCommand Security Certificates CA Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the details for the CA security certificates on this device.

### USAGE:

```
xCommand Security Certificates CA Show [Format: Format]
```

where

Format:

*PEM/Text*

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

## xCommand Security Certificates CSR Create

*Applies to: All products*

Requires user role: ADMIN

Create a certificate signing request using a newly created 2048 bit RSA key pair. The subject name used in the request is determined from the command parameters. The output is a PEM-encoded request in PKC#10 format.

### USAGE:

```
xCommand Security Certificates CSR Create CommonName: "CommonName"  
[CountryName: "CountryName"] [OrganizationName: "OrganizationName"]
```

where

CommonName:

*String (0, 128)*

The value used for CN/CommonName in the request.

CountryName:

*String (0, 128)*

The value used for C/Country value in the request.

OrganizationName:

*String (0, 128)*

The value used for O/Organization value in the request.

## xCommand Security Certificates CSR Link

*Applies to: All products*

Requires user role: ADMIN

This command reads a PEM-encoded X.509 certificate from an input, terminated by a '!' on a line of its own. It links the provided certificate to the private key previously created with the corresponding Security Certificates CSR Create command. Only one CSR can be active at any given time.

### USAGE:

```
xCommand Security Certificates CSR Link
```

## xCommand Security Certificates CUCM CTL Delete

*Applies to: All products*

Requires user role: ADMIN

api-description all="true">Deletes the Certificate Trust List (CTL) and Identity Trust List (ITL) from this device. This command applies only to devices that are registered to CUCM.

### USAGE:

```
xCommand Security Certificates CUCM CTL Delete
```

## xCommand Security Certificates CUCM CTL Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the details of the Certificate Trust List (CTL) on this device. CTL is used for devices that are registered to CUCM and contains a list of certificates for services within the CUCM cluster that the device is to trust.

### USAGE:

```
xCommand Security Certificates CUCM CTL Show
```

## xCommand Security Certificates CUCM ITL Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the details of the Identity Trust List (ITL) on this device. ITL is used for devices that are registered to CUCM and contains a list of certificates for services within the CUCM cluster that the device is to trust.

### USAGE:

```
xCommand Security Certificates CUCM ITL Show
```

## xCommand Security Certificates CUCM MIC Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the details of the Manufacture Installed Certificate (MIC) on this device. A MIC is signed by the Cisco Manufacturing CA and is installed on the device during production. This certificate is immutable.

### USAGE:

```
xCommand Security Certificates CUCM MIC Show [Format: Format]
```

where

Format:

*PEM/Text*

Specifies the format of the listed certificate, PEM (Privacy Enhanced Mail) or plain text.

Default value: PEM

## xCommand Security Certificates Services Activate

*Applies to: All products*

Requires user role: ADMIN

Activates a security certificate on this device.

### USAGE:

```
xCommand Security Certificates Services Activate Fingerprint: "Fingerprint"
```

```
Purpose: Purpose
```

where

Fingerprint:

*String (0, 1024)*

The unique identifier (ID) for the certificate that is activated. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

Purpose:

*802.1X/Audit/HTTPS/HttpClient/HttpProxy/Pairing/SIP/WebexIdentity*

The purpose of this certificate.

**802.1X:** For applying 802.1x security authentication.

**Audit:** For performing external audit logging.

**HTTPS:** For applying HTTPS security authentication.

**HttpClient:** For use with Mutual TLS authentication when using the xCommand HttpClient commands.

**HttpProxy:** Not in use in this software version.

**Pairing:** For pairing touch devices that are not directly connected to the video device.

**SIP:** For applying SIP security authentication.

**WebexIdentity:** For identifying the device in end-to-end encryption scenarios on the Webex cloud. Activates a specific certificate for WebexIdentity. For this Purpose, the command requires the identifying fingerprint to be encrypted and serialized in a JWE blob.

## xCommand Security Certificates Services Add

*Applies to: All products*

Requires user role: ADMIN

Uploads security certificates to this device. This is a multiline command.

### USAGE:

```
xCommand Security Certificates Services Add [PrivateKeyPassword:  
"PrivateKeyPassword"]
```

where

PrivateKeyPassword:

*String (0, 128)*

Stores the details of the private key for the password.

Default value: ""

## xCommand Security Certificates Services Deactivate

*Applies to: All products*

Requires user role: ADMIN

Deactivates security certificates on this device.

### USAGE:

```
xCommand Security Certificates Services Deactivate Fingerprint: "Fingerprint"  
Purpose: Purpose
```

where

Fingerprint:

*String (0, 1024)*

The unique Identifier for the certificate that is deactivated. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

Purpose:

*802.1X/Audit/HTTPS/HttpClient/HttpProxy/Pairing/SIP/WebexIdentity)*

The purpose of this certificate.

**802.1X:** For applying 802.1x security authentication.

**Audit:** For performing external audit logging.

**HTTPS:** For applying HTTPS security authentication.

**HttpClient:** For use with Mutual TLS authentication when using the xCommand HttpClient commands.

**HttpProxy:** Not in use in this software version.

**Pairing:** For pairing touch devices that are not directly connected to the video device.

**SIP:** For applying SIP security authentication.

**WebexIdentity:** For identifying the device in end-to-end encryption scenarios on the Webex cloud. Deactivates a specific certificate for WebexIdentity.

For this Purpose, the command requires the identifying fingerprint to be encrypted and serialized in a JWE blob.

## xCommand Security Certificates Services Delete

*Applies to: All products*

Requires user role: ADMIN

Deletes security certificates from this device.

### USAGE:

```
xCommand Security Certificates Services Delete Fingerprint: "Fingerprint"
```

where

Fingerprint:

*String (0, 128)*

The unique Identifier for the certificate that is deleted. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

## xCommand Security Certificates Services Show

*Applies to: All products*

Requires user role: ADMIN, USER

Shows details for security certificates on this device.

### USAGE:

```
xCommand Security Certificates Services Show [Filter: Filter]  
[FingerprintAlgorithm: FingerprintAlgorithm] [Format: Format]
```

where

Filter:

*802.1X/Audit/HTTPS/HttpClient/HttpProxy/Pairing/SIP/WebexIdentity*

Filters the results according to the chosen service.

**802.1X:** For applying 802.1x security authentication.

**Audit:** For performing external audit logging.

**HTTPS:** For applying HTTPS security authentication.

**HttpClient:** For use with Mutual TLS authentication when using the xCommand HttpClient commands.

**HttpProxy:** Not in use in this software version.

**Pairing:** For pairing touch devices that are not directly connected to the video device.

**SIP:** For applying SIP security authentication.

**WebexIdentity:** For identifying the device in end-to-end encryption scenarios on the Webex cloud.

FingerprintAlgorithm:

*SHA-1/SHA-256*

Specifies which hash function is used when generating the fingerprint of the certificate.

**SHA-1:** The SHA-1 hash function is used.

**SHA-256:** The SHA-256 hash function (from the SHA-2 family of hash functions) is used.

Default value: SHA-1

Format:

*PEM/Text*

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

## xCommand Security Certificates ThirdParty Disable

*Applies to: All products*

Requires user role: ADMIN

Disables a bundled certificate used for SMTP and HttpClient.

Disabling a certificate results in a server providing a certificate signed with this root certificate will be declined.

### USAGE:

```
xCommand Security Certificates ThirdParty Disable Fingerprint: "Fingerprint"
```

where

Fingerprint:

*String (0, 128)*

The unique Identifier for the certificate that is disabled. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

## xCommand Security Certificates ThirdParty Enable

*Applies to: All products*

Requires user role: ADMIN

Enables a bundled certificate used for SMTP and HttpClient.

### USAGE:

```
xCommand Security Certificates ThirdParty Enable Fingerprint: "Fingerprint"
```

where

Fingerprint:

*String (0, 128)*

The unique Identifier for the certificate that is enabled. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

## xCommand Security Certificates ThirdParty List

*Applies to: All products*

Requires user role: ADMIN

Lists all bundled certificates and their state.

### USAGE:

```
xCommand Security Certificates ThirdParty List
```

## xCommand Security Certificates ThirdParty Show

*Applies to: All products*

Requires user role: ADMIN

Shows a single third-party certificate.

### USAGE:

xCommand Security Certificates ThirdParty Show Fingerprint: "Fingerprint"  
[Format: Format]

where

Fingerprint:

*String (0, 128)*

The unique Identifier for the certificate you want to see. You can get the fingerprint ID by running xCommand Security Certificates Services Show.

Format:

*PEM/Text*

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

## xCommand Security Certificates Webex Show

*Applies to: All products*

Requires user role: ADMIN, USER

This command applies only to devices that are registered to the Webex cloud service.

Shows the list of trusted CA certificates that verifies the certificates of servers and services used by the Webex cloud.

### USAGE:

xCommand Security Certificates Webex Show [Filter: Filter] [Format: Format]

where

Filter:

*Cisco/Non-Cisco/TLS-proxy*

**Cisco**: Shows the list of CA certificates used when communicating with servers and services that are provided by Cisco.

**Non-Cisco**: Shows the list CA certificates used when communicating with servers and services that are provided by others than Cisco.

**TLS-proxy**: Shows the list of additional CA certificates required when using a TLS inspecting proxy for outbound traffic.

Format:

*PEM/Text*

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

## xCommand Security Certificates WebexIdentity Show

*Applies to: All products*

Requires user role: ADMIN, USER

This command applies only to devices that are registered to Webex cloud service.  
Shows the root Certificate Authority (CA) list for Webex Identity.

### USAGE:

xCommand Security Certificates WebexIdentity Show [Filter: Filter] [Format: Format]

where

Filter:

*External/Internal*

**Internal:** Shows the list of internal certificate authorities.

**External:** Shows a list of external certificate authorities.

Format:

*PEM/Text*

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

## xCommand Security Ciphers List

*Applies to: All products*

Requires user role: ADMIN

List the ciphers supported by various services (domains). Result:

Name: Name of this domain.

- \* Syslog-TLS: Used for logging over TLS.
- \* HTTPS server: Used by the device's own web server.
- \* HTTPS client: Used for all https client traffic from the device.
- \* Pairing: Used for peripheral pairing to touch devices and microphones/amplifiers.
- \* SIP TLS: Used for direct IP SIP connections, SIP connections to CUCM or to VCS or other SIP proxies when transport is TLS.

Cipherlist: The actual cipher list string sent to the TLS library.

Ciphers: A space-separated list of ciphers by their TLS standard name.

### USAGE:

xCommand Security Ciphers List

## xCommand Security ClientSecret Populate

*Applies to: All products*

Requires user role: ADMIN

This command applies only to devices that are registered to the Webex cloud service.  
Accepts a base64url encoded plain text value for seeding the client secret on the device for the first time.

To update the secret after that first time, you must supply a JWE blob containing the new secret encrypted by the old secret.

This is a multiline command.

### USAGE:

xCommand Security ClientSecret Populate Secret: "Secret"

where

Secret:

*String (0, 1024)*

First time: Supply a base64url encoded plain text value.

**Thereafter:** Supply a JWE blob containing the new secret encrypted by the old secret.



## xCommand Security Persistency

*Applies to: All products*

Requires user role: ADMIN

Set the following features to persistent or non-persistent mode. In non-persistent mode the information gathered by the specified feature does not persist a reboot of the device. Persistent mode is the default. This command reboots the device.

### USAGE:

xCommand Security Persistency Configurations: [Configurations](#) CallHistory: [CallHistory](#) InternalLogging: [InternalLogging](#) LocalPhonebook: [LocalPhonebook](#) DHCP: [DHCP](#) ConfirmAndReboot: [ConfirmAndReboot](#)

where

Configurations:

*NonPersistent/Persistent*

In non-persistent mode, all configurations are set back to default when the device reboots.

CallHistory:

*NonPersistent/Persistent*

In non-persistent mode call history is deleted when the device reboots.

InternalLogging:

*NonPersistent/Persistent*

In non-persistent mode eventlog is deleted when the device reboots.

LocalPhonebook:

*NonPersistent/Persistent*

In non-persistent mode local phonebook is deleted when the device reboots.

DHCP:

*NonPersistent/Persistent*

In non-persistent mode all IP related information is deleted when the device reboots.

ConfirmAndReboot:

Yes

Reboots the device.

## xCommand Security Session Get

*Applies to: All products*

Requires user role: ADMIN, AUDIT, INTEGRATOR, ROOMCONTROL, USER

Shows details of your current session.

### USAGE:

xCommand Security Session Get

## xCommand Security Session List

*Applies to: All products*

Requires user role: ADMIN

List active sessions.

### USAGE:

xCommand Security Session List

## xCommand Security Session Terminate

*Applies to: All products*

Requires user role: ADMIN

Terminate a session.

### USAGE:

xCommand Security Session Terminate SessionId: "SessionId"

where

SessionId:

*String (0, 32)*

The session ID number.

## SerialPort commands

### xCommand SerialPort PeripheralControl Send

*Applies to:* RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Send data via a serial connection to a third-party peripheral that is connected to the device. We refer to this as outbound serial control; see the SerialPort Outbound Mode setting for more information about the feature.

#### USAGE:

```
xCommand SerialPort PeripheralControl Send [PortId: PortId]  
[ResponseTerminator: "ResponseTerminator"] [ResponseTimeout: ResponseTimeout]  
Text: "Text"
```

where

PortId:

1

The port to send the data over.

Default value: 1

ResponseTerminator:

*String (0, 128)*

A character or string that indicates that the rest of the response received from the peripheral will be ignored.

If a ResponseTerminator is specified, then any response received from the peripheral serial port after the Send command is issued will be buffered. The command will return up-until the first occurrence of the ResponseTerminator character or string.

If a ResponseTerminator is not specified, either the complete response will be returned, or it will be cut when the full ResponseTimeout period expires.

The ResponseTerminator parameter is ignored if a ResponseTimeout parameter is not included in the command.

ResponseTimeout:

*Integer (50..5000)*

The maximum number of milliseconds (ms) to wait for a response from the peripheral.

If a ResponseTimeout is specified, the device listens for a response from the peripheral either the full ResponseTimeout period or until it receives the first occurrence of the character string specified in the ResponseTerminator parameter.

If a ResponseTimeout is not specified, the device terminates the command session immediately after the text-payload transmission is completed. Any response from the peripheral is discarded.

Text:

*String (0, 128)*

The text to send to the peripheral.

You can add characters using "\" notation for special characters and "\\x{ASCIIHEXCODE}" for hex characters.

**Examples:** "Power:on\r" or "Power:on\x0D" for a command that ends with carriage return; "Power:on\n" or "Power:on\x0A" for a command that ends with a new line.

## Standby commands

### xCommand Standby Activate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Set the device in standby mode, which turns off the video outputs and put the camera into sleep mode.

#### USAGE:

```
xCommand Standby Activate
```

### xCommand Standby Deactivate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Bring the device out of standby mode.

#### USAGE:

```
xCommand Standby Deactivate
```

### xCommand Standby Halfwake

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Sets the device to "Halfwake" state. This state informs the user from the UI, to pick up a remote or to tap the touch device to get started.

#### USAGE:

```
xCommand Standby Halfwake
```

### xCommand Standby ResetHalfwakeTimer

*Applies to: All products*

Requires user role: ADMIN, USER

Sets a temporary Halfwake timer delay. If the device is in Halfwake mode when the reset timer is set, the device is brought out of Halfwake mode. When left idle for the given delay the device goes into halfwake mode.

#### USAGE:

```
xCommand Standby ResetHalfwakeTimer [Delay: Delay]
```

where

Delay:

*Integer (1..480)*

Set the delay in minutes.

### xCommand Standby ResetTimer

*Applies to: All products*

Requires user role: ADMIN, USER

Reset the standby delay timer or set a temporary standby delay. If the device is in standby mode when the timer is set, the device is brought out of standby mode before starting the countdown.

If you don't specify a Delay, the standby delay timer is reset, and the device goes into standby after the period that is given by the Standby Delay setting (xConfiguration Standby Delay). If you do specify a Delay, the device goes into standby when it has been idle for the specified period. Next time, the standby delay is as configured in the Standby Delay setting again.

#### USAGE:

```
xCommand Standby ResetTimer [Delay: Delay]
```

where

Delay:

*Integer (1..480)*

Set the delay in minutes.

# SystemUnit commands

## xCommand SystemUnit Boot

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reboot the device.

### USAGE:

```
xCommand SystemUnit Boot [Action: Action] [Force: Force]
```

where

Action:

*Restart/Shutdown*

As a default the device restarts after a reboot. By selecting Shutdown, the device will not restart.

Default value: Restart

Force:

*False/True*

As a default the device reboots right away, regardless of whether the device is in use or not. By selecting False, the device reboots only if not in use (that is, in idle, standby, or halfwake mode).

Default value: True

## xCommand SystemUnit DeveloperPreview Activate

*Applies to: All products*

Requires user role: ADMIN

Activate developer preview mode. When developer preview mode is activated and you have a DeveloperPreview option key installed, you will get access to public-api-preview xAPI nodes.

### USAGE:

```
xCommand SystemUnit DeveloperPreview Activate
```

## xCommand SystemUnit DeveloperPreview Deactivate

*Applies to: All products*

Requires user role: ADMIN

Deactivate developer preview mode.

### USAGE:

```
xCommand SystemUnit DeveloperPreview Deactivate
```

## xCommand SystemUnit FactoryReset

*Applies to: All products*

Requires user role: ADMIN, USER

Reset the codec to factory default settings. The call logs are deleted and all device parameters are reset to default values. All files that have been uploaded to the codec are deleted. Option key(s) are not affected. Use the parameter Keep in order to choose which configurations and files to keep when you factory reset the device.

As a default the device restarts after the factory reset, but other behaviors can be forced by selecting a different TrailingAction.

### USAGE:

```
xCommand SystemUnit FactoryReset Confirm: Confirm [Keep: Keep]  
[TrailingAction: TrailingAction]
```

where

Confirm:

*Yes*

Include to confirm your choice.

Keep:

*Certificates/HTTP/LocalSetup/Network/Provisioning/RemoteSupportUser/SerialPort/Webex*

Select which configurations and files to keep when you factory reset the device.

**Certificates:**

Client and CA certificates.

**HTTP:**

xConfiguration NetworkServices HTTP Mode

xConfiguration NetworkServices HTTPS Server MinimumTLSVersion

xConfiguration NetworkServices HTTPS StrictTransportSecurity

xConfiguration NetworkServices HTTPS VerifyClientCertificate

xConfiguration NetworkServices HTTPS VerifyServerCertificate

**LocalSetup:**

xConfiguration Audio DefaultVolume

xConfiguration Audio SoundsAndAlerts RingVolume

xConfiguration Time Zone

xConfiguration UserInterface Language

xConfiguration Video Output Connector OverscanLevel

xCommand Camera Preset Store

**Network:**

xConfiguration Network 1 \*

xConfiguration NetworkServices Wifi Allowed

xConfiguration NetworkServices Wifi Enabled

**Provisioning:**

xConfiguration Provisioning Mode

**RemoteSupportUser:**

The remote support user (if any).

**SerialPort:**

xConfiguration SerialPort Mode

xConfiguration SerialPort BaudRate

xConfiguration SerialPort LoginRequired

**Webex:**

xConfiguration Spark ServiceOverrides GdsBaseUrl

xConfiguration Spark ServiceOverrides U2CBaseUrl

TrailingAction:

*NoAction/Restart/Shutdown*

Select Shutdown or NoAction to override the default behavior (Restart).

Default value: Restart

## xCommand SystemUnit FirstTimeWizard Stop

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Stops the wizard which appears the first time you start the device, so the device can be set up without it. The wizard only appears again if the device is reset to its factory default settings.

**USAGE:**

```
xCommand SystemUnit FirstTimeWizard Stop
```

## xCommand SystemUnit Notifications RemoveAll

*Applies to: All products*

Requires user role: ADMIN

Clears the list of system notifications that are reported by xStatus SystemUnit Notifications Text/Type.

**USAGE:**

```
xCommand SystemUnit Notifications RemoveAll
```

## xCommand SystemUnit OptionKey Add

*Applies to: All products*

Requires user role: ADMIN

Add an option key to support additional features.

**USAGE:**

```
xCommand SystemUnit OptionKey Add Key: "Key"
```

where

Key:

*String (16, 24)*

The key you have received for the option you wish to switch on.

## xCommand SystemUnit OptionKey List

*Applies to: All products*

Requires user role: ADMIN

List all option keys.

**USAGE:**

```
xCommand SystemUnit OptionKey List
```

## xCommand SystemUnit OptionKey Remove

*Applies to: All products*

Requires user role: ADMIN

Remove a specified option key.

**USAGE:**

```
xCommand SystemUnit OptionKey Remove Type: Type
```

where

Type:

*DeveloperPreview/Encryption/MultiSite/RemoteMonitoring [ RoomKit RoomKitMini RoomBar  
CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro  
DeskMini Desk Board ]*

*AVIntegrator/DeveloperPreview/Encryption/MultiSite/RemoteMonitoring [ RoomBarPro  
RoomKitEQX CodecEQ BoardPro BoardProG2 ]*

## xCommand SystemUnit OptionKey RemoveAll

*Applies to: All products*

Requires user role: ADMIN

Remove all option keys.

### USAGE:

```
xCommand SystemUnit OptionKey RemoveAll Confirm: Confirm
where
Confirm:
Yes
```

## xCommand SystemUnit ProductPlatform Set

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN

Select the product platform for your device. This command is typically used after a device has been in for repair and the product platform don't match the actual product. Use with caution.

Note, if you use this command to change the product platform for Room Panorama or Room 70 Panorama, you will disable the Panorama-specific functionality. You must contact Cisco with a valid Panorama service contract to get it back.

### USAGE:

```
xCommand SystemUnit ProductPlatform Set Platform: Platform
where
Platform:
ROOMKITEQ/ROOMKITEQX [RoomKitEQX CodecEQ]
CODECPRO/ROOM70D/ROOM70S [CodecPro Room70G2 RoomPanorama/Room70Panorama]
CODECPLUS/ROOM55D/ROOM70S/ROOM70D [CodecPlus Room70/Room55D]
ROOMKITEQ: The platform is set to Codec EQ.
ROOMKITEQX: Not available in this software version. Do not use.
CODECPRO: The platform is set to Codec Pro.
CODECPLUS: The platform is set to Codec Plus.
ROOM55D: The platform is set to Room 55 Dual.
ROOM70S: For Codec Plus and Room 70, the platform is set to Room 70 Single. For
Codec Pro and Room 70 G2, the platform is set to Room 70 Single G2.
ROOM70D: For Codec Plus and Room 70, the platform is set to Room 70 Dual. For
Codec Pro and Room 70 G2, the platform is set to Room 70 Dual G2.
```

## xCommand SystemUnit SignInBanner Clear

*Applies to: All products*

Requires user role: ADMIN

Clear the sign in banner set with xCommand SystemUnit SignInBanner Set.

### USAGE:

```
xCommand SystemUnit SignInBanner Clear
```

## xCommand SystemUnit SignInBanner Get

*Applies to: All products*

Requires user role: ADMIN, USER

Get the custom message set with xCommand SystemUnit SignInBanner Set.

### USAGE:

```
xCommand SystemUnit SignInBanner Get
```

## xCommand SystemUnit SignInBanner Set

*Applies to: All products*

Requires user role: ADMIN

Set up a sign in banner, which is a message that the users see before they sign in to the device's web interface or the command line interface. This is a multiline command.

Use:

```
xCommand SystemUnit SignInBanner Set <enter>
Banner text <enter>
. <enter>
```

### USAGE:

```
xCommand SystemUnit SignInBanner Set
```

## xCommand SystemUnit SoftReset

*Applies to: All products*

Requires user role: ADMIN, USER

Reset most parameters to their default values. This does not include parameters associated with room setup, such as camera position, language, and volume.

### USAGE:

```
xCommand SystemUnit SoftReset Confirm: Confirm
```

where

Confirm:

Yes

## xCommand SystemUnit SoftwareUpgrade

*Applies to: All products*

Requires user role: ADMIN

Initiate a software upgrade by fetching the software from a given URL.

### USAGE:

```
xCommand SystemUnit SoftwareUpgrade URL: "URL" [Forced: Forced]
```

where

URL:

*String (0, 1024)*

The URL to the software package location.

Forced:

*False/True*

You can force a device to accept a software upgrade immediately, without giving users a chance to acknowledge or postpone the update.

Default value: True

## xCommand SystemUnit WelcomeBanner Clear

*Applies to: All products*

Requires user role: ADMIN

Clear the welcome banner set with xCommand SystemUnit WelcomeBanner Set.

### USAGE:

```
xCommand SystemUnit WelcomeBanner Clear
```

## xCommand SystemUnit WelcomeBanner Get

*Applies to: All products*

Requires user role: ADMIN, AUDIT, INTEGRATOR, ROOMCONTROL, USER

Get the custom message set with xCommand SystemUnit WelcomeBanner Set.

### USAGE:

```
xCommand SystemUnit WelcomeBanner Get
```

## xCommand SystemUnit WelcomeBanner Set

*Applies to: All products*

Requires user role: ADMIN

Set up a welcome banner that the user sees after they sign in to the device's web interface or the command line interface.

The banner can for example contain information that the user needs to get started or things they must be aware of when changing settings. This is a multiline command.

Use:

```
xCommand SystemUnit WelcomeBanner Set <enter>
```

```
Banner text <enter>
```

```
. <enter>
```

### USAGE:

```
xCommand SystemUnit WelcomeBanner Set
```

## Time commands

### xCommand Time DateTime Get

*Applies to: All products*

Requires user role: ADMIN, USER

Read the time and date from the device.

#### USAGE:

```
xCommand Time DateTime Get
```

### xCommand Time DateTime Set

*Applies to: All products*

Requires user role: ADMIN, USER

Set the date and time for the device, if not available from NTP (Network Time Protocol).

#### USAGE:

```
xCommand Time DateTime Set [Year: Year] [Month: Month] [Day: Day] [Hour: Hour]
[Minute: Minute] [Second: Second]
```

where

Year:

*Integer (2015..2100)*

Month:

*Integer (1..12)*

Day:

*Integer (1..31)*

Hour:

*Integer (0..23)*

Minute:

*Integer (0..59)*

Second:

*Integer (0..59)*

## UserInterface commands

### xCommand UserInterface Branding Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

Deletes the custom wallpaper, the brand background image, and the logo files from the device.

#### USAGE:

```
xCommand UserInterface Branding Clear
```

### xCommand UserInterface Branding Delete

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Delete the image file that is specified in the Type parameter, from the device.

#### USAGE:

```
xCommand UserInterface Branding Delete Type: Type
```

where

Type:

*Background/Branding/HalfwakeBackground/HalfwakeBranding/WorkspaceAvatar*

**Background:** Delete the background image (wallpaper) that is displayed when the device is active.

**Branding:** Delete the logo that is displayed when the device is active.

**HalfwakeBackground:** Delete the background image (wallpaper) that is displayed when the device is in the halfwake state.

**HalfwakeBranding:** Delete the logo that is displayed when the device is in the halfwake state.

**SchedulerBackground:** Delete the background image (wallpaper) that is displayed on a Room Navigator in scheduler mode.

**SchedulerBranding:** Delete the logo that is displayed on a Room Navigator in scheduler mode.

**WorkspaceAvatar:** Delete the avatar that may be displayed in the room status icon on a Room Navigator in scheduler mode.



## xCommand UserInterface Branding Fetch

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Fetches an image file from a URL and stores the file on the device. Supply the URL first. The following image formats are supported: BMP, GIF, JPEG, and PNG. The maximum image size is 16 megapixel, and the maximum file size is 8 MByte.

The Type parameter determines what kind of image it is. If it is a background image, it is automatically applied.

This command issues an HTTP request, so it is included in the HTTP requests count. The maximum number of concurrent requests is limited.

### USAGE:

```
xCommand UserInterface Branding Fetch URL: "URL" [Checksum: "Checksum"]  
[ChecksumType: ChecksumType] [CustomId: "CustomId"] Type: Type
```

where

URL:

*String (5, 250)*

Specify the URL of the image file. URL must be the first parameter.

Checksum:

*String (0, 128)*

Specify the checksum for the image file that is to be fetched. The checksum is used to ensure the integrity of the downloaded image file. When using HTTP, it is mandatory to add a checksum. When using HTTPS, it is mandatory to add a checksum only if you are downloading the template from a server that presents an unsigned certificate, or a self-signed certificate that is not in the CA list of the device (not trusted).

ChecksumType:

*SHA512*

Specify the algorithm that is used to calculate the checksum.

Default value: SHA512

CustomId:

*String (0, 128)*

Specify a custom identifier for this image. You can get the CustomId for the images used by using xStatus UserInterface Branding CustomId.

Type:

*Background/Branding/HalfwakeBackground/HalfwakeBranding/WorkspaceAvatar*

Specify the usage type for this image.

**Background:** Fetch a background image (wallpaper) that can be displayed when the device is active.

**Branding:** Fetch a logo that can be displayed when the device is active.

**HalfwakeBackground:** Fetch a background image (wallpaper) that can be displayed

when the device is in the halfwake state.

**HalfwakeBranding:** Fetch a logo that can be displayed when the device is in the halfwake state.

**SchedulerBackground:** Fetch a background image (wallpaper) that can be displayed on a Room Navigator in scheduler mode.

**SchedulerBranding:** Fetch a logo that can be displayed on a Room Navigator in scheduler mode.

**WorkspaceAvatar:** Fetch an avatar that can be displayed in the room status icon on a Room Navigator in scheduler mode.

## xCommand UserInterface Branding Get

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The command returns the image file that is specified in the Type parameter, given that such a file is stored on the device. The file is Base64 encoded. The format is JPG for background images and PNG for logos, regardless of the format of the originally uploaded file.

Background images are stored in three sizes, one for the main screen, one for the touch controller or scheduler, and one for the web interface illustrations. Use the Size parameter to choose which one to get. Logos have only one size.

### USAGE:

xCommand UserInterface Branding Get [Size: Size] Type: Type

where

Size:

*Large/Small/Thumbnail*

**Large:** The size of the image that is displayed on the main screen.

**Small:** The size of the image that is displayed on the touch controller.

**Thumbnail:** The size of the image that is used in the web interface illustrations.

Default value: Large

Type:

*Background/Branding/HalfwakeBackground/HalfwakeBranding/WorkspaceAvatar*

**Background:** Return the background image (wallpaper) that is displayed when the device is active.

**Branding:** Return the logo that is displayed when the device is active.

**HalfwakeBackground:** Return the background image (wallpaper) that is displayed when the device is in the halfwake state.

**HalfwakeBranding:** Return the logo that is displayed when the device is in the halfwake state.

**SchedulerBackground:** Return the background image (wallpaper) that is displayed on a Room Navigator in scheduler mode.

**SchedulerBranding:** Return the logo that is displayed on a Room Navigator in scheduler mode.

**WorkspaceAvatar:** Return the avatar that is displayed in the room status icon on a Room Navigator in scheduler mode.

## xCommand UserInterface Branding Updated

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

This command creates an event that tells that a new image file is uploaded to the device and ready for use. The Type parameter identifies what kind of image it is.

### USAGE:

xCommand UserInterface Branding Updated Type: Type

where

Type:

*Background/Branding/HalfwakeBackground/HalfwakeBranding/WorkspaceAvatar*

**Background:** A new background image (wallpaper) that can be used when the device is active is ready for use.

**Branding:** A new logo that can be displayed when the device is active is ready for use.

**HalfwakeBackground:** A new background image (wallpaper) that can be displayed when the device is in the halfwake state is ready for use.

**HalfwakeBranding:** A new logo that can be displayed when the device is in the halfwake state is ready for use.

**SchedulerBackground:** A new background image (wallpaper) that can be displayed on a Room Navigator in scheduler mode is ready for use.

**SchedulerBranding:** A new logo that can be displayed on a Room Navigator in scheduler mode is ready for use.

**WorkspaceAvatar:** A new avatar (for the room status icon) that can be displayed on a Room Navigator in scheduler mode is ready for use.

## xCommand UserInterface Branding Upload

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Uploads an image file to the device. The following image formats are supported: BMP, GIF, JPEG, and PNG, and the maximum image size is 16 megapixels. The file must be Base64 encoded, and the maximum file size is 8 MByte.

The Type parameter specifies the usage of the image. If it is a background image, it is automatically applied.

This is a multiline command.

### USAGE:

```
xCommand UserInterface Branding Upload [CustomId: "CustomId"] Type: Type
```

where

CustomId:

*String (0, 256)*

Specify a custom identifier for this image. You can get the CustomId for the images used by using xStatus UserInterface Branding CustomId.

Type:

*Background/Branding/HalfwakeBackground/HalfwakeBranding/WorkspaceAvatar*

**Background:** Upload a background image that can be used when the device is active.

**Branding:** Upload a logo that can be displayed when the device is active.

**HalfwakeBackground:** Upload a background image (wallpaper) that can be displayed when the device is in the halfwake state.

**HalfwakeBranding:** Upload a logo that can be displayed when the device is in the halfwake state.

**SchedulerBackground:** Upload a background image (wallpaper) for a Room Navigator in scheduler mode.

**SchedulerBranding:** Upload a logo for a Room Navigator in scheduler mode.

**WorkspaceAvatar:** Upload an avatar (for the room status icon) that can be displayed on a Room Navigator in scheduler mode.

## xCommand UserInterface Extensions Clear

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Delete user interface extensions (web apps, web widgets, custom buttons, and custom panels) from the device. If you don't specify an ActivityType, all extensions are deleted.

### USAGE:

```
xCommand UserInterface Extensions Clear [ActivityType: ActivityType]
```

where

ActivityType:

*Custom/WebWidget [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ  
CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

*Custom/WebApp/WebWidget [DeskPro DeskMini Desk Board BoardPro BoardProG2]*

**Custom:** Custom buttons and custom panels are removed. Web apps and web widgets are not affected.

**WebApp:** Web apps are removed. Web widgets, custom buttons and custom panels are not affected.

**WebWidget:** Web widgets are removed. Web apps, custom buttons and custom panels are not affected.

## xCommand UserInterface Extensions Export

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Export the UserInterface Extensions as the XML result of this command.

This gives the same result as extracting through the local web interface, but it can be used programmatically.

### USAGE:

```
xCommand UserInterface Extensions Export [EmbedData: EmbedData]
```

where

EmbedData:

*Off/On*

**Off:** Do not embed the base64-encoded icons in the XML output.

**On:** Embed the base64-encoded icons in the output.

Default value: Off

## xCommand UserInterface Extensions Icon Delete

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Delete an icon from the device's list of UI extension icons. Specify the id of the icon to be deleted.

You can use xCommand UserInterface Extensions Icon List to get a list of all the icons with ids.

If you are not sure which icon is the one you are looking for, you can use xcommand UserInterface Icon Get to get the base64-encoded value and use an internet tool to decode base64 to image.

### USAGE:

```
xCommand UserInterface Extensions Icon Delete Id: "Id"
```

where

Id:

*String (0, 128)*

The id of the icon to be deleted.

## xCommand UserInterface Extensions Icon DeleteAll

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Delete all or a subset of UI extensions icons.

### USAGE:

```
xCommand UserInterface Extensions Icon DeleteAll [Filter: Filter]
```

where

Filter:

*All/Unused*

**All:** Delete all the UI extensions icons.

**Unused:** Delete only the icons that are not used by a UI extension.

Default value: All

## xCommand UserInterface Extensions Icon Download

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Download an icon from the specified URL and save it as a UI Extensions icon on the device.

### USAGE:

```
xCommand UserInterface Extensions Icon Download Url: "Url"
```

where

Url:

*String (0, 2048)*

The URL for the icon.

## xCommand UserInterface Extensions Icon Fetch

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Search a website for a representative icon and download this to the device for use with web apps and other UI extensions.

### USAGE:

```
xCommand UserInterface Extensions Icon Fetch Url: "Url"
```

where

Url:

*String (0, 2048)*

The URL for the website you want to look for and attempt to download a suitable icon.

## xCommand UserInterface Extensions Icon Get

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Get a base64-encoded representation of the UI Extensions icon with the specified Id. If you want to see the image, you can use an internet tool to decode base64 to image. Use xCommand UserInterface Extensions Icon List to get a list of all the icon Ids.

### USAGE:

```
xCommand UserInterface Extensions Icon Get Id: "Id"
```

where

Id:

*String (0, 128)*

The unique identifier corresponding to the icon.

## xCommand UserInterface Extensions Icon List

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Get a list of the unique identifiers for all the UI extension icons on the device.

### USAGE:

```
xCommand UserInterface Extensions Icon List
```

## xCommand UserInterface Extensions Icon Upload

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Upload an icon image for use by UI extensions on the device. This is a multiline command. Provide a base64-encoded version of an image.

### USAGE:

```
xCommand UserInterface Extensions Icon Upload [Id: "Id"]
```

where

Id:

*String (0, 128)*

A custom unique identifier corresponding to the icon.

## xCommand UserInterface Extensions List

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: INTEGRATOR, ROOMCONTROL, USER

List user interface extensions (web apps, custom buttons, and custom panels) that exist on the device. If you don't specify an ActivityType, all extensions are listed.

### USAGE:

```
xCommand UserInterface Extensions List [ActivityType: ActivityType]
```

where

ActivityType:

*Custom/WebWidget [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ*

*CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama ]*

*Custom/WebApp/WebWidget [DeskPro DeskMini Desk Board BoardPro BoardProG2 ]*

**Custom:** Custom buttons and custom panels are listed. Web apps and web widgets are not included.

**WebApp:** Web apps are listed. Web widgets, custom buttons and custom panels are not included.

**WebWidget:** Web widgets are listed. Web apps, custom buttons and custom panels are not included.

## xCommand UserInterface Extensions Panel Clicked

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Creates an event when the user clicks a custom button (for a custom panel, action button, or web app).

### USAGE:

```
xCommand UserInterface Extensions Panel Clicked PanelId: "PanelId"
```

where

PanelId:

*String (0, 255)*

The unique identifier of the custom panel, action button, or web app.

## xCommand UserInterface Extensions Panel Close

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Closes an open custom panel or web app.

### USAGE:

```
xCommand UserInterface Extensions Panel Close
```

## xCommand UserInterface Extensions Panel Open

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Opens the custom panel or web app that has the given PanelId. If the panel has multiple pages you can specify which page to open by including the PageId parameter.

### USAGE:

```
xCommand UserInterface Extensions Panel Open PanelId: "PanelId" [PageId: "PageId"]
```

where

PanelId:

*String (0, 255)*

The unique identifier of the custom panel or web app.

PageId:

*String (0, 255)*

The unique identifier of a page on a custom panel.

## xCommand UserInterface Extensions Panel Remove

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Removes the custom panel, action button, or web app from the user interface of this device.

### USAGE:

```
xCommand UserInterface Extensions Panel Remove PanelId: "PanelId"
```

where

PanelId:

*String (0, 255)*

The unique identifier of the custom panel, action button, or web app.

## xCommand UserInterface Extensions Panel Save

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Adds a custom panel, action button, or web app to the current configuration. If a custom panel, action button, or web app with the same panel ID already exists, it will be overwritten. This is a multiline command.

### USAGE:

```
xCommand UserInterface Extensions Panel Save PanelId: "PanelId"
```

where

PanelId:

*String (1, 255)*

The unique identifier of the custom panel, action button, or web app.

## xCommand UserInterface Extensions Panel Update

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Updates the custom panel, action button, or web app, that has the given PanelId. Successful changes are immediately visible on the device.

### USAGE:

```
xCommand UserInterface Extensions Panel Update PanelId: "PanelId" [Name: "Name"] [Color: "Color"] [Icon: "Icon"] [IconId: "IconId"] [Location: "Location"] [Visibility: "Visibility"]
```

where

PanelId:

*String (0, 255)*

The unique identifier of the custom panel, action button, or web app.

Name:

*String (0, 255)*

The new name of the custom panel, action button, or web app.

Color:

*String (0, 255)*

The color of the button in hexadecimal notation (for example, #4287f5).

Icon:

*Briefing/Camera/Concierge/Custom/Disc/Handset/Help/Helpdesk/Home/Hvac/Info/ Input/Language/Laptop/Lightbulb/Media/Microphone/Power/Proximity/Record/Spark/ Tv/Webex/General*

The icon on the button. Use one of the preinstalled icons from the list or select Custom to use a custom icon that has been uploaded to the device.

IconId:

*String (0, 255)*

The unique identifier of the uploaded custom icon.

Location:

*CallControls/Hidden/HomeScreen/HomeScreenAndCallControls*

Decide if a button (for a custom panel, action button, or web app) is on the Home screen, in the call controls, both places, or nowhere.

This parameter is not available for Room 70 Panorama and Room Panorama in this software version.

**CallControls:** The button is only in the call controls. This implies that it's only available when in a call.

**Hidden:** The button is always hidden, but you can open the panel or web app using API commands.

**HomeScreen:** The button is only on the Home screen.

**HomeScreenAndCallControls:** The button is both on the Home screen and in the call controls.

Visibility:

*Auto/Hidden*

Choose whether to show the button (for a custom panel, action button, or web app) on the user interface.

**Auto:** The button is visible on the user interface.

**Hidden:** The button isn't visible on the user interface.

## xCommand UserInterface Extensions Set

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Set the configuration scheme you have chosen in the user interface extensions (widgets) for your device. Updates the UserInterface Extensions status tree. This is a multiline command.

### USAGE:

```
xCommand UserInterface Extensions Set ConfigId: "ConfigId"
```

where

ConfigId:

*String (0, 40)*

The unique identifier for the configuration.

## xCommand UserInterface Extensions WebApp Save

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Adds a button that opens a web page (web app) on the device. If a custom panel, action button, or web app with the same panel ID already exists, it will be overwritten.

If device supports the format, an icon for the button is fetched automatically from the web app URL. If not, the generic web app icon is used.

### USAGE:

```
xCommand UserInterface Extensions WebApp Save [Location: Location] Name: "Name" [PanelId: "PanelId"] URL: "URL"
```

where

Location:

*CallControls/Hidden/HomeScreen/HomeScreenAndCallControls*

Decide if a web app button is on the Home screen, in the call controls, both places, or nowhere.

**CallControls:** The button is only in the call controls. This implies that it's only available when in a call.

**Hidden:** The button is always hidden, but you can open the web app using API commands.

**HomeScreen:** The button is only on the Home screen.

**HomeScreenAndCallControls:** The button is both on the Home screen and in the call controls.

Name:

*String (0, 40)*

The name of the web app, as it will appear on the user interface.

PanelId:

*String (1, 255)*

The unique identifier of the web app.

URL:

*String (0, 2048)*

The web app URL.

## xCommand UserInterface Extensions WebWidget Remove

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Remove the web widget specified by the PanelId.

### USAGE:

```
xCommand UserInterface Extensions WebWidget Remove PanelId: "PanelId"
```

where

PanelId:

*String (0, 255)*

The unique identifier of the web widget.

## xCommand UserInterface Extensions WebWidget Save

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Add a web widget to appear on the home screen of the device. Web widgets are not interactive but offer a view that allows to display web page contents. It is only possible to have one widget at a time.

### USAGE:

```
xCommand UserInterface Extensions WebWidget Save [Name: "Name"] [PanelId: "PanelId"] [RefreshInterval: RefreshInterval] [URL: "URL"]
```

where

Name:

*String (0, 40)*

The name of the web widget that will appear on the user interface.

PanelId:

*String (0, 255)*

The unique identifier of the web widget.

RefreshInterval:

*Integer (0..86400)*

How often to refresh the web page (in seconds).

URL:

*String (0, 2048)*

The URL of the web widget.



## xCommand UserInterface Extensions Widget Action

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Sets the action of the given widget. Updates the UserInterface Extensions status tree.

### USAGE:

```
xCommand UserInterface Extensions Widget Action [Type: "Type"] [Value: "Value"] WidgetId: "WidgetId"
```

where

Type:

*String (0, 255)*

The type of widget that is set.

Value:

*String (0, 255)*

The value of the widget. The range of values depends on the widget type.

WidgetId:

*String (0, 255)*

The unique identifier for the widget.

## xCommand UserInterface Extensions Widget SetValue

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Set the value of the given widget. Updates the UserInterface Extensions status tree. Returns an error if the value is out of range.

### USAGE:

```
xCommand UserInterface Extensions Widget SetValue Value: "Value" WidgetId: "WidgetId"
```

where

Value:

*String (0, 255)*

The value of the widget. The range of values depends on the widget type.

WidgetId:

*String (0, 255)*

The unique identifier for the widget.

## xCommand UserInterface Extensions Widget UnsetValue

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Empties the value of the given widget. Updates the UserInterface Extensions status tree and notifies the user interface that this widget is no longer selected.

### USAGE:

```
xCommand UserInterface Extensions Widget UnsetValue WidgetId: "WidgetId"
```

where

WidgetId:

*String (0, 255)*

The unique identifier for the widget.

## xCommand UserInterface LedControl Color Set

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

The wall mount version of the Room Navigator has LED lights. Use this command to specify the color and turn the LED lights on or off.

The UserInterface LedControl Mode setting must be Manual for this command to have any effect.

### USAGE:

```
xCommand UserInterface LedControl Color Set Color: "Color"
```

where

Color:

*Aquamarine/Blue/Cyan/Fuchsia/Gold/Green/Lime/Magenta/Off/Orange/Orchid/Purple/Red/Scarlet/Turquoise/Violet/Yellow*

**Off:** Turn the LED lights off.

Other values: Turn on the LED lights with the specified color.

## xCommand UserInterface Message Alert Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Remove the message which was displayed using the UserInterface Message Alert Display command. This is required when the Duration parameter is not set.

### USAGE:

```
xCommand UserInterface Message Alert Clear
```

## xCommand UserInterface Message Alert Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Display a message on screen. Optionally you can keep the message for a specified duration of time. If Duration is not set, the command must be followed by a UserInterface Message Alert Clear command.

### USAGE:

```
xCommand UserInterface Message Alert Display [Title: "Title"] Text: "Text"  
[Duration: Duration]
```

where

Title:

*String (0, 255)*

The title of the message.

Default value: ""

Text:

*String (0, 255)*

The message to be displayed. The <p> and <br> HTML tags will result in line breaks as normal; any other tags will appear as plain text.

Duration:

*Integer (0..3600)*

How long (in seconds) the message is to be displayed on the screen. If set to 0 (zero) the message is displayed until a UserInterface Message Alert Clear command is sent.

Default value: 0

## xCommand UserInterface Message Prompt Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Remove the window which was displayed using the UserInterface Message Prompt Display command. This is required when the Duration parameter is not set.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message Prompt Clear [FeedbackId: "FeedbackId"]
```

where

FeedbackId:

*String (0, 255)*

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Prompt Display command.

Default value: ""

## xCommand UserInterface Message Prompt Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Display a small window on screen with a title, text and up to five options for response from the user. The message is displayed on screen until the user gives a response, or until the device receives a UserInterface Message Prompt Clear command.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message Prompt Display [Title: "Title"] Text: "Text"  
[FeedbackId: "FeedbackId"] [Duration: Duration] [Option.1: "Option.1"]  
[Option.2: "Option.2"] [Option.3: "Option.3"] [Option.4: "Option.4"] [Option.5:  
"Option.5"]
```

where

Title:

*String (0, 255)*

The title of the message.

Text:

*String (0, 255)*

Enter the text line to be displayed. The <p> and <br> HTML tags will result in line breaks as normal; any other tags will appear as plain text.

FeedbackId:

*String (0, 255)*

To identify the feedback enter a FeedbackId.

Duration:

*Integer (0..3600)*

How long (in seconds) the message window is to be displayed on the screen. If set to 0 (zero) the message window is displayed until a UserInterface Message Prompt Clear command is sent.

Default value: 0

Option.1:

*String (0, 255)*

The text to appear on feedback option 1.

Option.2:

*String (0, 255)*

The text to appear on feedback option 2.

Option.3:

*String (0, 255)*

The text to appear on feedback option 3.

Option.4:

*String (0, 255)*

The text to appear on feedback option 4.

Option.5:

*String (0, 255)*

The text to appear on feedback option 5.

## xCommand UserInterface Message Prompt Response

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Give a response to the UserInterface Message Prompt Display command. This command is executed when the user selects an option in the user interface.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message Prompt Response [FeedbackId: "FeedbackId"]  
OptionId: OptionId
```

where

FeedbackId:

*String (0, 255)*

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Prompt Display command.

Default value: ""

OptionId:

*Integer (1..5)*

The OptionId corresponds to the OptionIds given as possible responses in the UserInterface Message Prompt Display command.

## xCommand UserInterface Message Rating Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Remove the message which was displayed using the UserInterface Message Rating Display command. This is required when the Duration parameter is not set.

### USAGE:

```
xCommand UserInterface Message Rating Clear [FeedbackId: "FeedbackId"]
```

where

FeedbackId:

*String (0, 255)*

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Rating Display command. If the FeedbackId is not given, all UserInterface Message Rating windows will be closed.

Default value: ""

## xCommand UserInterface Message Rating Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Display a small window on screen with a title and text. Rating stars are provided for the user to select. The message is displayed on screen until the user gives a response, or until the device receives a UserInterface Message Rating Clear command.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message Rating Display [Title: "Title"] Text: "Text" [FeedbackId: "FeedbackId"] [Duration: Duration] [SubmitReceiptText: "SubmitReceiptText"] [SubmitReceiptTitle: "SubmitReceiptTitle"]
```

where

Title:

*String (0, 40)*

Text shown as the title in the rating display window. This text is displayed in larger font and above the text provided with the Text parameter. If no text is provided for the title, it will be omitted and the rating display window will be smaller.

Text:

*String (0, 128)*

Enter the text line to be displayed. The <p> and <br> HTML tags will result in line breaks as normal; any other tags will appear as plain text.

FeedbackId:

*String (0, 255)*

To identify the feedback enter a FeedbackId.

Duration:

*Integer (0..3600)*

How long (in seconds) the message window is to be displayed on the screen. If empty or set to 0, the message window is displayed until a UserInterface Message Rating Clear command is sent.

Default value: 0

SubmitReceiptText:

*String (0, 128)*

The text to display as the body of the message after the user has provided a rating (for example, "Thank you"). This text replaces the original text that is provided with the Text parameter and appears for one second before the message fades away.

SubmitReceiptTitle:

*String (0, 40)*

The text to display as the message title after the user has provided a rating (for example, "Thank you"). This text replaces the original title that is provided with the

Title parameter. If no title parameter is given, this is ignored.

## xCommand UserInterface Message Rating Response

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Give a response to the UserInterface Message Rating Display command. This command is executed when the user selects an option in the user interface.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message Rating Response [FeedbackId: "FeedbackId"]
Rating: Rating
```

where

FeedbackId:

*String (0, 255)*

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Rating Display command.

Default value: ""

Rating:

*Integer (1..5)*

The Rating corresponds to the rating given as a possible response in the UserInterface Message Rating Display window where 1 is furthest to the left.

## xCommand UserInterface Message TextInput Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Remove the text input message which was displayed using the UserInterface Message TextInput Display command. This is required when the Duration parameter is not set.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message TextInput Clear [FeedbackId: "FeedbackId"]
where
```

FeedbackId:

*String (0, 255)*

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message TextInput Display command.

Default value: ""

## xCommand UserInterface Message TextInput Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Displays an input dialog box to which a user can respond. This is only supported for devices with a touch-based user interface. The message is displayed on screen until the user gives a response, or until the device receives a UserInterface Message TextInput Clear command.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

### USAGE:

```
xCommand UserInterface Message TextInput Display [Duration: Duration]
[FeedbackId: "FeedbackId"] [InputText: "InputText"] [InputType: InputType]
[KeyboardState: KeyboardState] [Placeholder: "Placeholder"] [SubmitText:
"SubmitText"] Text: "Text" [Title: "Title"]
```

where

Duration:

*Integer (0..3600)*

How long (in seconds) the message is to be displayed on the screen. If set to 0 (zero) the message is displayed until a UserInterface Message TextInput Clear command is sent.

Default value: 0

FeedbackId:

*String (0, 255)*

To identify the feedback enter a FeedbackId.

InputText:

*String (0, 255)*

Text that is pre-populated in the text input field when the dialog box opens. Before submitting the response, you can edit this text, or delete it and enter your own text. If this parameter is not included, the content of the Placeholder parameter is shown in the text input field when the dialog box opens.

Default value: ""

InputType:

*SingleLine/Numeric/Password/PIN*

The type of text input dialog box that is displayed. This also determines the keyboard layout that it displayed.

Default value: SingleLine

KeyboardState:

*Open/Closed*

Specifies if the device's keyboard should open when the text input message displays.

Default value: Open

Placeholder:*String (0, 255)*

Placeholder text that is displayed in the text input field until you start typing. If the InputText parameter is included, the Placeholder parameter has no effect.

Default value: ""

SubmitText:*String (0, 32)*

The text that is shown on the Submit button.

Default value: "OK"

Text:*String (0, 128)*

The message that is to be displayed to the user. The <p> and <br> HTML tags will result in line breaks as normal; any other tags will appear as plain text.

Title:*String (0, 40)*

The title of the input dialog box.

Default value: ""

## xCommand UserInterface Message TextInput Response

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Give a response to the UserInterface Message TextInput Display command. This command is executed when the user submits the reply that he has entered in the text input field in the user interface.

Use the xFeedback commands to monitor the feedback from the user. Read more about the xFeedback commands in the API introduction section in this guide.

**USAGE:**

```
xCommand UserInterface Message TextInput Response [FeedbackId: "FeedbackId"]
Text: "Text"
```

where

FeedbackId:*String (0, 255)*

To identify the feedback enter a FeedbackId.

Text:*String (0, 255)*

The message that is to be displayed to the user.

## xCommand UserInterface Message TextLine Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Remove the text line which was displayed by the UserInterface Message TextLine Display command. This is required when the Duration parameter is not set.

**USAGE:**

```
xCommand UserInterface Message TextLine Clear
```

## xCommand UserInterface Message TextLine Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Display a text line on screen. Optionally you can place the text line at a specified location and for a specified duration of time. If Duration is not set, the command must be followed by the UserInterface Message TextLine Clear command.

**USAGE:**

```
xCommand UserInterface Message TextLine Display Text: "Text" [X: X] [Y: Y]
[Duration: Duration]
```

where

Text:*String (0, 140)*

The text line to be displayed. The <p> and <br> HTML tags will result in line breaks as normal; any other tags will appear as plain text.

X:*Integer (1..10000)*

Enter the X-coordinate (horizontal) on screen. X=0 is in the upper left corner.

Default value: 0

Y:*Integer (1..10000)*

Enter the Y-coordinate (vertical) on screen. Y=0 is in the upper left corner.

Default value: 0

Duration:*Integer (0..3600)*

How long (in seconds) the text line is to be displayed on the screen. If set to 0 (zero) the text line is displayed until a UserInterface Message TextLine Clear command is sent.

Default value: 0

## xCommand UserInterface Presentation ExternalSource Add

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Establish and set up an input source that is connected to the device via an external switch.

### USAGE:

```
xCommand UserInterface Presentation ExternalSource Add ConnectorId:  
ConnectorId SourceIdentifier: "SourceIdentifier" Name: "Name" Type: Type  
where
```

ConnectorId:

*Integer (1..6) [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*Integer (1..4) [RoomKitEQX CodecEQ]*

*Integer (1..3) [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]*

*Integer (1..2) [RoomKit RoomKitMini DeskMini Board]*

The ID of the device connector that the external switch is connected to.

SourceIdentifier:

*String (0, 40)*

A unique string that identifies the input source. The identifier is used by other commands and events when addressing this specific input source.

Name:

*String (0, 40)*

The name of the input source. This name will be displayed on the user interface.

Type:

*camera/desktop/document\_camera/mediaplayer/PC/whiteboard/other*

The type of input source. The type determines which icon to display on the user interface.

## xCommand UserInterface Presentation ExternalSource List

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Returns the current list of external input sources.

### USAGE:

```
xCommand UserInterface Presentation ExternalSource List
```

## xCommand UserInterface Presentation ExternalSource Remove

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Remove the input source (specified by the SourceIdentifier) from the list of external input sources.

### USAGE:

```
xCommand UserInterface Presentation ExternalSource Remove SourceIdentifier:  
"SourceIdentifier"
```

where

SourceIdentifier:

*String (0, 40)*

The unique string that identifies this input source. It was defined when the source was created with the UserInterface Presentation ExternalSource Add command.

## xCommand UserInterface Presentation ExternalSource RemoveAll

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Remove all input sources from the list of external input sources.

### USAGE:

```
xCommand UserInterface Presentation ExternalSource RemoveAll
```

## xCommand UserInterface Presentation ExternalSource Select

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Starts to present the input source (specified by the SourceIdentifier) if it is in Ready state (see the UserInterface Presentation ExternalSource State Set command). The input source will be shown in the user interface share maneu as "Presenting".

### USAGE:

```
xCommand UserInterface Presentation ExternalSource Select SourceIdentifier:  
"SourceIdentifier"
```

where

SourceIdentifier:

*String (0, 40)*

The unique string that identifies this input source. It was defined when the source was created with the UserInterface Presentation ExternalSource Add command.

## xCommand UserInterface Presentation ExternalSource State Set

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

Set or change the state of the input source (specified by the SourceIdentifier).

### USAGE:

```
xCommand UserInterface Presentation ExternalSource State Set  
SourceIdentifier: "SourceIdentifier" State: State [ErrorReason: "ErrorReason"]
```

where

SourceIdentifier:

*String (0, 40)*

The unique string that identifies this input source. It was defined when the source was created with the UserInterface Presentation ExternalSource Add command.

State:

*Hidden/Ready/NotReady/Error*

**Ready:** The input source will be presented when someone selects it (taps it on the user interface, or when the UserInterface Presentation ExternalSource Select command is issued).

**NotReady:** The input source is not ready, and cannot be selected.

**Error:** The input source is in an erroneous state. The ErrorReason parameter may be used to inform the user about the reason for failure.

**Hidden:** The input source will not be displayed in the user interface share menu.

ErrorReason:

*String (0, 80)*

This string is displayed in the user interface share menu, given that the State parameter is set to Error.

Default value: ""

## xCommand UserInterface ScreenLock AdminInitiateRecovery

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN

This command applies only to shared mode devices that are registered to the Webex cloud service or linked to Webex Edge for devices. Also, the UserInterface ScreenLock Workspace Allowed setting must be True.

The command returns a 6-digit one-time PIN and triggers a prompt on the device itself. The command is typically run from Control Hub by an administrator, and the administrator must provide the user of the device with this one-time PIN.

The user of the device needs the one-time PIN to be able to follow the prompt on the device and set the device's actual PIN lock.

### USAGE:

```
xCommand UserInterface ScreenLock AdminInitiateRecovery [Lifespan: Lifespan]
```

where

Lifespan:

*Integer (2..10080)*

How many minutes the generated one-time PIN is valid.

Default value: 2

## xCommand UserInterface Translation Override Clear

*Applies to: All products*

Requires user role: ADMIN

Clear all translation overrides.

### USAGE:

```
xCommand UserInterface Translation Override Clear
```

## xCommand UserInterface Translation Override Get

*Applies to: All products*

Requires user role: ADMIN

Returns the translation override information in JSON format.

If no translation override is set, it will return an error.

### USAGE:

```
xCommand UserInterface Translation Override Get
```



## xCommand UserInterface Translation Override Set

*Applies to: All products*

Requires user role: ADMIN

Set a translation override for text on the user interface.

For instance, change the title "Whiteboard" to "whiteboard collection", or whatever you like.

This is a multiline command that expects the override set in JSON format.

For example:

```
{
  "version": 1,
  "translations": [
    {
      "sourceText": "Whiteboard",
      "translated": "WB",
      "language": "English"
    }
  ]
}
```

sourceText: The English version of the text to be replaced.

translated: The text to use as the replacement for the language that you specify.

language: The language of the translation.

**USAGE:**

```
xCommand UserInterface Translation Override Set
```

## xCommand UserInterface WallpaperBundle Clear

*Applies to: All products*

Requires user role: ADMIN

Stop displaying the wallpaper bundle and return to the default background. In the current release, background bundles are applicable to devices in the Desk and Board series, Room Bar, Room Bar Pro, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama.

**USAGE:**

```
xCommand UserInterface WallpaperBundle Clear
```

## xCommand UserInterface WallpaperBundle List

*Applies to: All products*

Requires user role: ADMIN

List the pre-installed wallpaper bundles. Both the name and setup types of the bundles are returned. In the current release, background bundles are applicable to devices in the Desk and Board series, Room Bar, Room Bar Pro, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama.

**USAGE:**

```
xCommand UserInterface WallpaperBundle List
```

## xCommand UserInterface WallpaperBundle Set

*Applies to: All products*

Requires user role: ADMIN

Select one of the pre-installed wallpaper bundles. The wallpaper bundle will be shown when the system is in awake state.

A wallpaper bundle may include wallpapers for several setup types. Some bundles are prepared for multi-screen setups, by providing an image that spans several screens; and some bundles include a wallpaper for the touch controller. You must choose a bundle that offers the setup type that match your screen setup. You can see the list of bundles by running the UserInterface WallpaperBundle List command.

Note that the UserInterface Wallpaper setting must be Auto, if you want to use wallpaper bundles.

In the current release, background bundles are applicable to devices in the Desk and Board series, Room Bar, Room Bar Pro, Room 55 Dual, Room 70, Room 70 G2, Room 70 Panorama, and Room Panorama.

**USAGE:**

```
xCommand UserInterface WallpaperBundle Set Name: "Name"
```

where

Name:

*String (0, 255)*

The name of the wallpaper bundle.

## xCommand UserInterface WebView Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Closes the web view.

### USAGE:

```
xCommand UserInterface WebView Clear [Target: Target]
```

where

Target:

*Controller/OSD/PersistentWebApp*

**Controller:** Only for Cisco internal use.

**OSD:** Close the web view that is displayed on the screen of the device.

**PersistentWebApp:** Only for Cisco internal use.

## xCommand UserInterface WebView Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Opens the web view and displays the web page given by the URL.

### USAGE:

```
xCommand UserInterface WebView Display [AllowInsecureHttps :  
AllowInsecureHttps] [Header: "Header"] [Mode: Mode] [Options: "Options"]  
[Target: Target] [Title: "Title"] [Url: "Url"]
```

where

AllowInsecureHttps :

*False/True*

Only when AllowInsecureHttps is set to True in this command AND the host has been added to the allow-list (see the WebEngine AllowInsecureHttps Add command) will the web page with self-signed certificate be loaded.

Header:

*String (0, 8192)*

An HTTP header field. You can add up to 15 Header parameters in one command, each holding one HTTP header field.

Mode:

*Fullscreen/Modal*

Full screen: Display the web page on the entire screen.

**Modal:** Display the web page in a window.

Options:

*String (0, 255)*

This parameter is intended for internal use by the UI Extensions Editor.

Target:

*Controller/OSD/PersistentWebApp*

**Controller:** Only for Cisco internal use.

**OSD:** Close the web view that is displayed on the screen of the device.

**PersistentWebApp:** Only for Cisco internal use.

Title:

*String (0, 255)*

The title of the web page.

Url:

*String (0, 2000)*

The URL of the web page.

## UserManagement commands

### xCommand UserManagement RemoteSupportUser Create

*Applies to: All products*

Requires user role: ADMIN

Create a remote support user passphrase that Technical Assistance Center (TAC) can use to access the device for troubleshooting.

#### USAGE:

```
xCommand UserManagement RemoteSupportUser Create [ExpiryDays: ExpiryDays]
```

where

ExpiryDays:

*Integer (1..31)*

Define the duration for the passphrase validity. Default is 7 days.

### xCommand UserManagement RemoteSupportUser Delete

*Applies to: All products*

Requires user role: ADMIN

Delete the remote support user created with the command xCommand UserManagement RemoteSupportUser Create.

#### USAGE:

```
xCommand UserManagement RemoteSupportUser Delete
```

### xCommand UserManagement RemoteSupportUser DisablePermanently

*Applies to: All products*

Requires user role: ADMIN

Disable the creation of new remote support users. To enable the remote support user again you must factory reset your device.

#### USAGE:

```
xCommand UserManagement RemoteSupportUser DisablePermanently Confirm: Confirm
```

where

Confirm:

Yes

### xCommand UserManagement RemoteSupportUser GetState

*Applies to: All products*

Requires user role: ADMIN

Retrieves the state of the generated remote support user, if one exists.

#### USAGE:

```
xCommand UserManagement RemoteSupportUser GetState
```

## xCommand UserManagement User Add

*Applies to: All products*

Requires user role: ADMIN

Adds a new user to this device.

### USAGE:

```
xCommand UserManagement User Add [Active: Active] [ClientCertificateDN: "ClientCertificateDN"] Passphrase: "Passphrase" [PassphraseChangeRequired: "PassphraseChangeRequired"] Role: Role [ShellLogin: "ShellLogin"] Username: "Username" [YourPassphrase: "YourPassphrase"]
```

where

Active:

*False/True*

Specifies whether this is an active user or not.

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

Passphrase:

*String (0, 255)*

The passphrase for the user.

PassphraseChangeRequired:

*False/True*

Specifies whether the user must change his passphrase on the next sign-in.

Role:

*Admin/Audit/Integrator/RoomControl/User*

Sets the user's role(s). You can assign more than one role to a user by adding multiple Role parameters.

ShellLogin:

*False/True*

Specifies whether the user should have a shell login or not.

Username:

*String (0, 127)*

The user's username.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command. You must always confirm the operation with your own password when creating a user with Admin rights.

## xCommand UserManagement User Delete

*Applies to: All products*

Requires user role: ADMIN

Deletes a user from this device.

### USAGE:

```
xCommand UserManagement User Delete Username: "Username" [YourPassphrase: "YourPassphrase"]
```

where

Username:

*String (0, 127)*

The username of the user that will be deleted.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand UserManagement User Get

*Applies to: All products*

Requires user role: ADMIN

Shows the details of a user on this device. You must supply either a Username or ClientCertificateDN to identify the user.

### USAGE:

```
xCommand UserManagement User Get [ClientCertificateDN: "ClientCertificateDN"] [Username: "Username"]
```

where

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

Username:

*String (0, 127)*

Specify a username to show the details of a particular user.

## xCommand UserManagement User List

*Applies to: All products*

Requires user role: ADMIN

Shows the list of users on this device.

### USAGE:

```
xCommand UserManagement User List [Limit: Limit] [Offset: Offset]
```

where

Limit:

*Integer (0..65536)*

Limits the number of users that are shown to this number. 0 means no limit, i.e, all users are listed.

Default value: 0

Offset:

*Integer (0..65536)*

Shows a list with users starting from index X, where X is the Offset. That is, the first X-1 users are not shown.

Default value: 0

## xCommand UserManagement User Modify

*Applies to: All products*

Requires user role: ADMIN

Modifies the details of a particular user.

### USAGE:

```
xCommand UserManagement User Modify [Active: Active] [AddRole: AddRole]  
[ClientCertificateDN: "ClientCertificateDN"] [PassphraseChangeRequired:  
PassphraseChangeRequired] [RemoveRole: RemoveRole] [ShellLogin: ShellLogin]  
Username: "Username" [YourPassphrase: "YourPassphrase"]
```

where

Active:

*False/True*

Specifies whether this is an active user or not.

AddRole:

*Admin/Audit/Integrator/RoomControl/User*

Adds a new role for the specified user.

ClientCertificateDN:

*String (0, 255)*

Identifies a user who logs in with a client certificate instead of a username and password.

PassphraseChangeRequired:

*False/True*

Specifies whether the user must change his passphrase on the next sign-in.

RemoveRole:

*Admin/Audit/Integrator/RoomControl/User*

Removes a role from the specified user.

ShellLogin:

*False/True*

Specifies whether the user should have a shell login or not.

Username:

*String (0, 127)*

The user's username.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand UserManagement User Passphrase Change

*Applies to: All products*

Requires user role: ADMIN, AUDIT, INTEGRATOR, ROOMCONTROL, USER

Change the passphrase for the user you are signed in as. If you are signed in as the administrator, this will change the administrator passphrase.

### USAGE:

```
xCommand UserManagement User Passphrase Change NewPassphrase: "NewPassphrase"  
OldPassphrase: "OldPassphrase"
```

where

NewPassphrase:

*String (0, 255)*

The passphrase you are changing to (new).

OldPassphrase:

*String (0, 255)*

The passphrase you are changing from (old).

## xCommand UserManagement User Passphrase Set

*Applies to: All products*

Requires user role: ADMIN

Set a passphrase for the specified user. You must be signed in as an administrator to set a user's passphrase.

### USAGE:

```
xCommand UserManagement User Passphrase Set NewPassphrase: "NewPassphrase"  
Username: "Username" [YourPassphrase: "YourPassphrase"]
```

where

NewPassphrase:

*String (0, 255)*

The passphrase you are changing to (new).

Username:

*String (0, 127)*

The username of the user you are setting a new passphrase for.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## xCommand UserManagement User Unblock

*Applies to: All products*

Requires user role: ADMIN

Unblocks a user who is blocked out because of too many failed login attempts.

### USAGE:

```
xCommand UserManagement User Unblock Username: "Username" [YourPassphrase:  
"YourPassphrase"]
```

where

Username:

*String (0, 127)*

The username of the user that will be unblocked.

YourPassphrase:

*String (0, 255)*

The passphrase for the user you are signed in as when running this command.

## UserPresence commands

### xCommand UserPresence CustomStatus Clear

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

This command applies only to personal devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

Clear the current custom presence status message for this user. Since custom presence status messages applies to a user, the current message will be cleared on all devices and Webex apps registered to this person.

#### USAGE:

```
xCommand UserPresence CustomStatus Clear
```

### xCommand UserPresence CustomStatus GetRecentsList

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

This command applies only to personal devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

List the five last custom presence status messages that have been added for this user. Since custom presence status messages is set for a user, it includes messages added with the UserPresence CustomStatus Set command, added from the device UI, or from or a Webex app registered to the same person.

#### USAGE:

```
xCommand UserPresence CustomStatus GetRecentsList
```

### xCommand UserPresence CustomStatus Set

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

On a personal device that is registered to the Webex cloud service or linked to Webex Edge for devices, you can add a custom presence status message. For example, "Out for lunch" or "Be right back". This status message is set for the user (that is, the person that the device is registered to), hence it will also appear on Webex apps belonging to this person.

If you don't add the Timeout parameter, the message stays for 60 minutes.

#### USAGE:

```
xCommand UserPresence CustomStatus Set Status: "Status" [Timeout: Timeout]
```

where

Status:

*String (0, 1024)*

Free text, describing the current presence status.

Timeout:

*Integer (1..10080)*

The number of minutes the custom presence status message will show on screen.

## Video commands

### xCommand Video ActiveSpeakerPIP Set

*Applies to: All products*

Requires user role: ADMIN, USER

Sets position for the active speakers PIP (picture in picture).

#### USAGE:

xCommand Video ActiveSpeakerPIP Set Position: Position

where

Position:

*CenterLeft/CenterRight/DockCenterLeft/DockLowerLeft/LowerLeft/LowerRight/  
UpperCenter/UpperLeft/UpperRight*

Select one of the predefined positions.

### xCommand Video CEC Input KeyClick

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR

Mimics a remote control key click event from the input device.

#### USAGE:

xCommand Video CEC Input KeyClick ConnectorId: ConnectorId [Key: Key]  
[LogicalAddress: LogicalAddress] [NamedKey: NamedKey]

where

ConnectorId:

*Integer (1..5) [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*Integer (1..4) [RoomKitEQX CodecEQ]*

*Integer (1..3) [RoomBar RoomBarPro CodecPlus Room70/Room55D]*

*Integer (2..2) [RoomKit RoomKitMini DeskMini Board]*

*Integer (2..3) [Room55 DeskPro Desk BoardPro BoardProG2]*

The unique identifier of the connector.

Key:

*Integer (0..255)*

The CEC specified key code for the key that is sent to the logical address of the device as if it was pushed on a remote control.

LogicalAddress:

*Integer (0..15)*

The logical address of the connected device.

NamedKey:

*Up/Down/Right/Left/Ok/Back/Stop/Play)*

The name of the key that is sent to the logical address of the device as if it was pushed on a remote control.



## xCommand Video CEC Output KeyClick

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR

Mimics a remote control key click event from this device.

### USAGE:

xCommand Video CEC Output KeyClick ConnectorId: ConnectorId [Key: Key]  
LogicalAddress: LogicalAddress [NamedKey: NamedKey]

where

ConnectorId:

*Integer (1..3)*

The unique identifier of the connector.

Key:

*Integer (0..255)*

The CEC specified key code for the key that is sent to the logical address of the device as if it was pushed on a remote control.

LogicalAddress:

*Integer (0..15)*

The logical address of the connected device.

NamedKey:

*Up/Down/Right/Left/Ok/Back/Stop/Play*

The name of the key that is sent to the logical address of the device as if it was pushed on a remote control.

## xCommand Video CEC Output SendActiveSourceRequest

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR

A request from the video device to become the active source of the screen (device) that is connected to the specified output connector.

### USAGE:

xCommand Video CEC Output SendActiveSourceRequest [ConnectorId: ConnectorId]

where

ConnectorId:

*Integer (1..1) [RoomKitMini]*

*Integer (1..3) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

The unique identifier of the connector.

## xCommand Video CEC Output SendInactiveSourceRequest

Applies to: *RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR

A request from the video device to stop being the active source of the screen (device) that is connected to the specified output connector. It is up to the screen to decide how to respond to the request. It can become the active source itself, make another source the active one, or do nothing.

### USAGE:

xCommand Video CEC Output SendInactiveSourceRequest [ConnectorId: ConnectorId]

where

ConnectorId:

*Integer (1..1) [RoomKitMini RoomBar RoomBarPro]*

*Integer (1..3) [RoomKit RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

The unique identifier of the connector.

## xCommand Video Graphics Clear

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Remove a text string that has been added to the main video stream, the presentation stream, or the local output using the Video Graphics Text Display command. If you don't want to remove the text string from all those places, you can use multiple Target parameters to choose a subset.

### USAGE:

```
xCommand Video Graphics Clear [Target: Target]
```

where

Target:

*LocalOutput/MainSource/PresentationSource*

Specify from where to remove the text string. Choose between the local output, the main video stream, and the presentation stream.

## xCommand Video Graphics Text Display

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Compose a text string that will be added to the main video stream, the presentation stream, and the local output. If you don't want to add the text string all those places, you can use multiple Target parameters to choose a subset.

### USAGE:

```
xCommand Video Graphics Text Display [Date: Date] [Duration: Duration]  
[Target: Target] [Text: "Text"] [Time: Time]
```

where

Date:

*On/Off*

Choose whether to include the date in the text string.

Duration:

*Integer (0..3600)*

The duration (seconds) for which the text string will be displayed.

Target:

*LocalOutput/MainSource/PresentationSource*

Choose where to add the text string. Choose between the local output, the main video stream, and the presentation stream.

Text:

*String (0, 1024)*

The custom text to include in the text string.

Time:

*On/Off*

Choose whether to include the time of day in the text string.

## xCommand Video Input MainVideo Mute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Stop sending video from the device. Self-view is also turned off. This command does not affect the presentation channel.

### USAGE:

```
xCommand Video Input MainVideo Mute
```

## xCommand Video Input MainVideo Unmute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Start sending video from the device if previously turned off using the Video Input MainVideo Mute command (or, if available, the "Turn off video" button on the user interface). Self-view is also available.

### USAGE:

```
xCommand Video Input MainVideo Unmute
```

## xCommand Video Input SetMainVideoSource

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Set which input source is the main video source. You can identify the input source by either the physical connector that it is connected to (ConnectorId) or the logical source identifier (SourceId). Also content input via AirPlay or Miracast are available as video sources.

You can combine multiple input sources in a single main video stream (the maximum number of different input sources depend on the type of video device) by adding multiple ConnectorIds or SourceIds in the same command. There cannot be a mix of identifier types in the same command; use either ConnectorId or SourceId.

### USAGE:

```
xCommand Video Input SetMainVideoSource [ConnectorId: ConnectorId] [Layout: Layout] [PIPPosition: PIPPosition] [PIPSize: PIPSize] [SourceId: SourceId]
```

where

ConnectorId:

*Integer (1..6) [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

*Integer (1..4) [RoomKitEQX CodecEQ]*

*Integer (1..3) [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]*

*Integer (1..2) [RoomKit RoomKitMini DeskMini]*

The identifier (ID) of the connector. Connector [n] has ID n. Run the following API command to find the ID: xStatus Video Input Connector.

Layout:

*Equal/PIP/Prominent*

Sets the layout of the main video source if the main video source is composed of multiple input sources.

**Equal:** The input sources are shown in same-sized images. There can be a maximum of four images on screen.

**PIP:** Shows one of the input source as a Picture in Picture (only available when composing two input sources).

**Prominent:** The first input source is shown as a large image, and the next input sources are shown as smaller images placed below.

PIPPosition:

*LowerLeft/LowerRight/UpperLeft/UpperRight*

Select the PIP position of the main video source if the main video source is composed of multiple input sources.

PIPSize:

*Auto/Large*

Select the PIP size of the main video source if the main video source is composed of

multiple input sources.

SourceId:

1/2/3/4/5/6/Airplay/Miracast [CodecPro Room70G2 RoomPanorama/Room70Panorama]

1/2/3/4/Airplay/Miracast [RoomKitEQX CodecEQ]

1/2/3/Airplay/Miracast [RoomBar RoomBarPro CodecPlus Room55 Room70/Room55D DeskPro Desk BoardPro BoardProG2]

1/2/Airplay/Miracast [RoomKit RoomKitMini DeskMini]

The identifier (ID) of the input source. Input Source [n] has ID n. Run the following API command to find the ID: xStatus Video Input Source.

## xCommand Video Layout HideNonVideo Activate

*Applies to: All products*

Requires user role: ADMIN, USER

Hide participants without video during meetings.

This feature is only available on devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled

### USAGE:

```
xCommand Video Layout HideNonVideo Activate
```

## xCommand Video Layout HideNonVideo Deactivate

*Applies to: All products*

Requires user role: ADMIN, USER

Show participants without video during meetings.

### USAGE:

```
xCommand Video Layout HideNonVideo Deactivate
```

## xCommand Video Layout LayoutFamily Set

*Applies to: All products*

Requires user role: ADMIN, USER

Select which video layout family to use locally. This setting applies only when using a device's built-in MultiSite feature (optional) to host a multipoint video conference.

### USAGE:

```
xCommand Video Layout LayoutFamily Set [CustomLayoutName: "CustomLayoutName"]  
[LayoutFamily: LayoutFamily] [Target: Target]
```

where

CustomLayoutName:

*String (1, 128)*

To use a custom layout, specify this parameter and the layout name.

LayoutFamily:

*auto/custom/equal/overlay/prominent/prominent\_l/single*

Select a layout family.

**Auto:** The default layout family, as given in the layout database provided by the device, will be used as the local layout.

**Custom:** The name of your custom saved layout.

**Equal:** The Grid layout family will be used as the local layout. Participants are shown in a grid of equal sized videos. If there is shared content it will appear beside the grid.

**Overlay:** The Overlay layout family will be used as the local layout. The active speaker will be shown in full screen, with the other participants in thumbnails overlaid across the bottom. If there is content it will appear in full screen with the active speaker in a thumbnail overlaid at the top. Transitions between active speakers are voice switched.

**Prominent:** The Stack layout family will be used as the local layout. The active speaker, or shared content, will be a large picture, while the other participants will be small pictures across the top. Transitions between active speakers are voice switched.

**Prominent\_L:** The Prominent layout family will be used as the local layout. The active speaker is shown in the upper left part of the screen, and other participants are ranged across the bottom and beside on the right.

**Single:** The Focus layout family will be used as the local layout. The active speaker, or the presentation if present, will be shown in full screen. The other participants are not shown. Transitions between active speakers are voice switched.

Target:

*Local/Remote*

Select if the target is the local layout (what users of the current device will see) or the remote layout (what participants at the far end will see).

## xCommand Video Layout SetLayout

*Applies to: All products*

Requires user role: ADMIN, USER

Select which video layout family to use locally. You must choose a value from the list returned by the Video Layout CurrentLayouts AvailableLayouts[n] LayoutName status.

### USAGE:

```
xCommand Video Layout SetLayout LayoutName: "LayoutName"
```

where

LayoutName:

*String (0, 128)*

The name of the layout family.

## xCommand Video Layout StageParticipants Reset

*Applies to: All products*

Requires user role: ADMIN, USER

Use this command to return to the default layout behavior, that is, no participants are moved to stage.

Refer to the Video Layout StageParticipants Set ById command for more info about the move to stage feature.

### USAGE:

```
xCommand Video Layout StageParticipants Reset
```

## xCommand Video Layout StageParticipants Set ById

*Applies to: All products*

Requires user role: ADMIN, USER

Note: This feature is not generally available in RoomOS 11.17 and 11.18.

When you are in a Webex meeting you can move participants to be on the stage. This means that they are always visible as a frame in the layout on your screen; and they will be placed inside the largest of the available frames for the layout chosen by the user (or automatically selected). Note that you move the participants only on your local device; so it has no effect on what other participants see on their screens.

You can move up to four participants to be on stage. If one participant can't be resolved, the entire operation fails, and you won't see any change in state. If participants that haven't yet joined the meeting is moved to stage, the change will happen once they join the meeting.

Use this command if you want to identify the participants to put on stage using the participantId as identifier. If you want to use the participants name, use the Video Layout StageParticipants Set ByName command instead.

To see the ParticipantIds for participants in a call, you can run the xCommand Conference ParticipantList Search. Scan the list for the participant and use the subfield, "ParticipantId".

### USAGE:

```
xCommand Video Layout StageParticipants Set ById [CallId: CallId]  
ParticipantId: "ParticipantId"
```

where

CallId:

*Integer (0..65534)*

- The CallId may be used to identify the far end device when in a Multipoint call. The CallId is returned when issuing the xCommand Dial command. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

ParticipantId:

*String (1, 255)*

You can add up to 4 participantId parameters in one command. Hence, you can move up to 4 participants to the stage.

## xCommand Video Layout StageParticipants Set ByName

*Applies to: All products*

Requires user role: ADMIN, USER

When you are in a Webex meeting you can move participants to be on the stage. Refer to the Video Layout StageParticipants Set ById command for more info about the feature.

Use this command if you want to identify the participants to put on stage using their Webex (??) display name as identifier. You can input a partial name and the device will attempt to resolve a participant based on substring matching.

If one participant can't be resolved, the entire operation fails, and there will be no observable change in state.

### USAGE:

```
xCommand Video Layout StageParticipants Set ByName [CallId: CallId]  
ParticipantName: "ParticipantName"
```

where

CallId:

*Integer (0..65534)*

The CallId may be used to identify the far end device when in a Multipoint call. The CallId is returned when issuing the xCommand Dial command. You can get the callId during the call, by running xStatus Call from one of the devices participating in the call.

ParticipantName:

*String (1, 255)*

You can add up to 4 participantId parameters. Hence, you can move up to 4 participants to the stage.

## xCommand Video Matrix Assign

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Video Matrix commands are a smart overlay to the xCommand Video Layout commands to make it easy to do simple video compositions.

### USAGE:

```
xCommand Video Matrix Assign [Layout: Layout] [Mode: Mode] Output: Output  
[RemoteMain: RemoteMain] [SourceId: SourceId]
```

where

Layout:

*Equal/Prominent*

Select the layout you wish to use for the video composition.

**Equal:** All sources are shown in same-sized images on the output.

**Prominent:** The first source is shown as a large image, and the next sources are shown as smaller images placed below.

Mode:

*Add/Replace*

Choose whether to replace the existing source on that output rendered full screen or to add it. Using Add, the layout engine will recompose the multiple sources automatically. Replace is the default value.

Output:

*Integer (1..2) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecPlus ]*

*Integer (1..3) [CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

Choose the output you wish to use for this layout.

RemoteMain:

*Integer (1..4)*

Add a remote site to the layout.

SourceId:

*Integer (1..6) [CodecPro Room70G2 RoomPanorama/Room70Panorama ]*

*Integer (1..4) [RoomKit RoomKitEQX CodecEQ CodecPlus ]*

*Integer (1..3) [RoomBar RoomBarPro ]*

The identifier (ID) of the input source. Input Source [n] has ID n. Run the following API command to find the ID: xStatus Video Input Source. You can use up to four SourceIds in one command.

## xCommand Video Matrix Reset

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Reset the content on the output to the default layout

xCommand Video Matrix commands are a smart overlay to the xCommand Video Layout commands to make it easy to do simple video compositions.

### USAGE:

xCommand Video Matrix Reset [Output: Output]

where

Output:

*Integer (1..2) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecPlus]*

*Integer (1..3) [CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Choose the output you want to reset.

## xCommand Video Matrix Swap

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Swap the content defined with xCommand Video Matrix Assign between two outputs.

xCommand Video Matrix commands are a smart overlay to the xCommand Video Layout commands to make it easy to do simple video compositions.

### USAGE:

xCommand Video Matrix Swap OutputA: OutputA OutputB: OutputB

where

OutputA:

*Integer (1..2) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecPlus]*

*Integer (1..3) [CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

The output you are swapping from.

OutputB:

*Integer (1..2) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecPlus]*

*Integer (1..3) [CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

The output you are swapping to.

## xCommand Video Matrix Unassign

*Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Remove a source from an output. Just as with xCommand Video Matrix Assign the layout engine will recompose the remaining sources automatically.

xCommand Video Matrix commands are a smart overlay to the xCommand Video Layout commands to make it easy to do simple video compositions.

### USAGE:

xCommand Video Matrix Unassign Output: Output [RemoteMain: RemoteMain]  
[SourceId: SourceId]

where

Output:

*Integer (1..2) [RoomKit RoomBar RoomBarPro RoomKitEQX CodecPlus]*

*Integer (1..3) [CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Choose the output you wish to remove the source from.

RemoteMain:

*Integer (1..4)*

Remove a remote site from the layout.

SourceId:

*Integer (1..2) [RoomKit]*

*Integer (1..3) [RoomBar RoomBarPro CodecPlus]*

*Integer (1..4) [RoomKitEQX CodecEQ]*

*Integer (1..6) [CodecPro Room70G2 RoomPanorama/Room70Panorama]*

The identifier (ID) of the input source. Input Source [n] has ID n. Run the following API command to find the ID: xStatus Video Input Source.

## xCommand Video Output HDMI Passthrough Start

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, USER

Start sending video and audio from the device's camera and microphone to the laptop, via the HDMI-to-USB converter.

The command applies only when Call from laptop is enabled, that is, when Video Output HDMI Passthrough Allowed is set to True.

This command doesn't apply to Room 55 Dual and Room 70 Dual.

### USAGE:

xCommand Video Output HDMI Passthrough Start

## xCommand Video Output HDMI Passthrough Stop

*Applies to:* RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2

Requires user role: ADMIN, USER

Stop sending video and audio from the device's camera and microphone to the laptop, via the HDMI-to-USB converter.

The command applies only when Call from laptop is enabled, that is, when Video Output HDMI Passthrough Allowed is set to True.

This command doesn't apply to Room 55 Dual and Room 70 Dual.

### USAGE:

xCommand Video Output HDMI Passthrough Stop

## xCommand Video Output Monitor Backlight Set

*Applies to:* Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Board

Requires user role: ADMIN

Adjust the backlight of the device's integrated screen. This is not applicable for Room Panorama.

### USAGE:

xCommand Video Output Monitor Backlight Set Position: Position Value: Value

where

Position: [Room70/Room55D Room70G2]

*Left/Right*

Choose whether to apply the command to the left or right integrated screen. This parameter is only present for devices with two integrated screens (dual screen devices).

Value:

*Integer (0..100)*

Select the backlight level.

## xCommand Video Output Monitor Color Select

*Applies to:* Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN

Adjust the monitor's color temperature. This is not applicable for Room Panorama.

### USAGE:

xCommand Video Output Monitor Color Select Position: Position Value: Value

where

Position:

*Left/Right*

Choose whether to apply the command to the left or right integrated screen.

This parameter is only present for devices with two integrated screens (dual screen devices).

Value:

*4900K/5500K/6500K/7200K/9300K/10500K/12000K*

## xCommand Video Output Monitor Reset

*Applies to:* Room70/Room55D Room70G2 Board

Requires user role: ADMIN

Reset monitor settings.

### USAGE:

xCommand Video Output Monitor Reset Position: Position

where

Position: [Room70/Room55D Room70G2]

*Left/Right*

Choose whether to apply the command to the left or right integrated screen. This parameter is only present for devices with two integrated screens (dual screen devices).



## xCommand Video PresentationPIP Set

*Applies to: All products*

Requires user role: ADMIN, USER

Sets position for the presentation PiP (picture in picture).

### USAGE:

xCommand Video PresentationPIP Set Position: Position

where

Position:

*CenterLeft/CenterRight/DockCenterLeft/DockLowerLeft/LowerLeft/LowerRight/  
UpperCenter/UpperLeft/UpperRight*

Select one of the predefined positions.

## xCommand Video PresentationView Set

*Applies to: All products*

Requires user role: ADMIN, USER

Set the presentation view mode

### USAGE:

xCommand Video PresentationView Set View: View

where

View:

*Default/Maximized/Minimized*

Select Default when you want the presentation to be viewed with the default settings for the codec. Select Maximized when you want the presentation to be displayed in full screen. Select Minimized when you want the presentation to be displayed in a small picture on screen.

## xCommand Video Selfview Set

*Applies to: All products*

Requires user role: ADMIN, USER

Sets self-view on/off and specifies its size and position. If the parameter is not specified, current value is used.

### USAGE:

xCommand Video Selfview Set [Mode: Mode] [FullscreenMode: FullscreenMode]  
[PIPPosition: PIPPosition] [OnMonitorRole: OnMonitorRole]

where

Mode:

*On/Off*

Self-view is set to on or off.

FullscreenMode:

*On/Off*

Choose between displaying the self-view in full screen or as picture-in-picture.

PIPPosition:

*CenterLeft/CenterRight/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight*

Select the position for the self-view image.

OnMonitorRole:

*First/Second/Third*

Displays self-view on monitors with this role.

## WebEngine commands

### xCommand WebEngine AllowInsecureHttps Add

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

By default, the web engine does not allow web content loaded from a host with self-signed HTTPS certificate.

However, there may be reasons to allow this for select hosts anyway. This could be during the development and test phase of a new web-based service where the integrations are being tested on test servers without proper certificates - or in in-house deployed appliance services where insecure HTTPS connection to the services is considered acceptable.

Using this command you can add the fully qualified DNS name or the IP address of these particular services to an "AllowInsecureHttps" list in which the codec will allow these sites to be used on the device even with self-signed HTTPS certificates.

Even if the host is on the allow insecure HTTP access allow-list, you must set the AllowInsecureHttps parameter to True in the UserInterface WebView Display command to be able to load a web page with self-signed certificate.

Cisco will still recommend that you use signed certificates in all production deployments.

#### USAGE:

```
xCommand WebEngine AllowInsecureHttps Add Hostname: "Hostname"
```

where

Hostname:

*String (0, 200)*

The URL or hostname of the web site.

### xCommand WebEngine AllowInsecureHttps List

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

List all the web sites on the insecure HTTPS access allow-list. See the WebEngine AllowInsecureHttps Add command for more information.

#### USAGE:

```
xCommand WebEngine AllowInsecureHttps List
```

### xCommand WebEngine AllowInsecureHttps Remove

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Remove a web site from the insecure HTTPS access allow-list. See the WebEngine AllowInsecureHttps Add command for more information.

#### USAGE:

```
xCommand WebEngine AllowInsecureHttps Remove Id: Id
```

where

Id:

*Integer (0..65534)*

A unique identifier for an entry in the list. Use the WebEngine AllowInsecureHttps Access List command to find the identifier. These identifiers are redefined as elements are added or removed from the list.

### xCommand WebEngine AllowInsecureHttps RemoveAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Empty the insecure HTTPS access allow-list.

#### USAGE:

```
xCommand WebEngine AllowInsecureHttps RemoveAll
```

## xCommand WebEngine DeleteStorage

*Applies to: All products*

Requires user role: ADMIN

Deletes session data for web view types, such as digital signage and web apps.

### USAGE:

xCommand WebEngine DeleteStorage [Type: Type]

where

Type:

*All/PersistentWebApp/Signage/WebApps*

**All**: Deletes the session data for all web view types.

**PersistentWebApp**: Deletes the session data related to persistent web apps.

**Signage**: Deletes the session data related to digital signage.

**WebApps**: Deletes the session data related to all web views except digital signage and persistent web apps.

Default value: All

## xCommand WebEngine Logging Set

*Applies to: All products*

Requires user role: ADMIN, USER

Set what type of messages to add in the web engine log files. The level you set determines how serious an issue must be to be included in the logs. Messages for the set level and up (more serious) are included in the web engine logs. So, if you choose the lowest level (Verbose) the most information is added to the logs; if you choose the highest level (Fatal), only the most serious errors such as software crashes are added. The Verbose log level can be further refined by using the Verbosity parameter. All these log levels are as defined by Chromium.

### USAGE:

xCommand WebEngine Logging Set Level: Level [Verbosity: Verbosity]

where

Level:

*Verbose/Info/Warning/Error/Fatal*

The log level. The lowest level (most logging) is Verbose, then Info, Warning, Error, and finally the highest level is Fatal (least logging).

Verbosity:

*Integer (-20..-1)*

Refined log level for Verbose. -1 gives the least logging and -20 the most.

Default value: -1

## xCommand WebEngine MediaAccess Add

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

You can set up a list of web sites that are granted permanent access to the device's camera or microphone, bypassing the default prompt dialog. This may be useful in custom setups, such as kiosk and web apps, as users will not have to allow camera and microphone access via a dialog every time a call is made.

Use this command to add a web site to the permanent access list.

### USAGE:

xCommand WebEngine MediaAccess Add Device: Device Hostname: "Hostname"

where

Device:

*Camera/Microphone*

Choose whether to grant access to the camera or microphone. Add this parameter twice, once for microphone and once for camera, if you want to grant access to both.

Hostname:

*String (0, 1024)*

The URL or hostname of the web site.

## xCommand WebEngine MediaAccess List

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

List all the web sites on the permanent access list, that is, all web sites that have permanent access to the device's camera, microphone, or both. See the WebEngine MediaAccess Add command for more information.

### USAGE:

xCommand WebEngine MediaAccess List

## xCommand WebEngine MediaAccess Remove

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Remove a web site from the permanent access list, that is, from now on the user must allow camera and microphone access for this site via a dialog. See the WebEngine MediaAccess Add command for more information.

### USAGE:

```
xCommand WebEngine MediaAccess Remove Id: Id
```

where

Id:

*Integer (0..65534)*

A unique identifier for an entry in the list. Use the WebEngine MediaAccess List command to find the identifier. These identifiers are redefined as elements are added or removed from the list.

## xCommand WebEngine MediaAccess RemoveAll

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Empty the permanent access list, that is, remove permanent access to the device's camera and microphone for all web sites.

### USAGE:

```
xCommand WebEngine MediaAccess RemoveAll
```

## xCommand WebEngine Tracing Start

*Applies to: All products*

Requires user role: ADMIN, USER

Starts a chromium trace for use with advanced debugging. Please see the chromium documentation. Note that this generates a lot of data, so be mindful of the duration of the trace. Ideally, use the Duration parameter or the WebEngine Tracing Stop command to limit the trace to just a few seconds, to capture exactly the issue and nothing more. The resulting trace data is stored in /run/webengine\_traces (requires remote access to the device).

### USAGE:

```
xCommand WebEngine Tracing Start [CustomCategories: "CustomCategories"]  
[Duration: Duration] Mode: Mode [Systrace: Systrace]
```

where

CustomCategories:

*String (0, 2048)*

Only used when the Mode parameter is set to Custom. Allows you to manually specify which chromium categories to include in the trace. Accepts a comma-separated list of chromium tracing categories.

Duration:

*Integer (1..1800)*

The duration of the trace recording in seconds.

Default value: 15

Mode:

*Custom/FrameViewer/InputLatency/JavascriptAndRendering/Rendering/  
WebDeveloper*

Set a predefined set of categories to use in the trace. Each category captures different data. If Custom is chosen, see the CustomCategories parameter.

Systrace:

*Off/On*

*On*: Use the Android Systrace format for the trace file (recommended).

*Off*: Use the legacy format for the trace file.

Default value: On

## xCommand WebEngine Tracing Stop

*Applies to: All products*

Requires user role: ADMIN, USER

Stop an ongoing trace prematurely. If there is no active trace, nothing is done.

### USAGE:

```
xCommand WebEngine Tracing Stop
```

## Webex commands

### xCommand Webex Hotdesking SetSupport

Applies to: *DeskPro DeskMini Desk*

Requires user role: ADMIN

When the device is set up with hot desking capabilities, you can book the device, sign in, reserve it for a certain time, and thereby get the benefits as if it was your personal device.

In most cases hot desking is configured when creating the workspace or device in Control Hub, hence you rarely have to explicitly issue this command. However, if you have already registered the device in shared mode, you can enable or disable hot desking using this command.

Hot desking is available only for shared mode devices that are registered to the Webex cloud service or linked to Webex Edge for Devices.

#### USAGE:

```
xCommand Webex Hotdesking SetSupport Mode: Mode
```

where

Mode:

*Off/On*

**Off:** Disable hot desking on the device.

**On:** Enable hot desking on the device.

### xCommand Webex Join

Applies to: *All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

Join the Webex meeting specified by the meeting number.

Add optional information, such as the role you will initially have in the meeting, the name of the meeting, and a tag to identify the call in the call history. If you are joining a meeting that is locked by a pin code, you can add the code in the Pin parameter.

#### USAGE:

```
xCommand Webex Join [DisplayName: "DisplayName"] Number: "Number"  
[ParticipantRole: ParticipantRole] [Pin: "Pin"] [TrackingData: "TrackingData"]
```

where

DisplayName:

*String (0, 255)*

The name of the meeting.

Number:

*String (0, 255)*

The meeting number, meeting link, video address, or Personal Room ID.

ParticipantRole:

*Guest/Host/Panelist*

Decide the role you will have when entering the meeting. A meeting host can change your role during the meeting.

Pin:

*String (0, 32)*

A pin code for the meeting. There may be different pin codes for different participant roles. If included, you will enter the meeting directly. If not including a pin code, or if entering the wrong code, you will get a pin code prompt on the user interface.

TrackingData:

*String (0, 255)*

A tag or label that will be preserved and stored in the call history.

## xCommand Webex Meetings InstantMeeting Start

*Applies to: All products*

Requires user role: ADMIN, USER

Starts an instant Webex meeting on a shared device. A QR code that participants can scan to join the meeting is shown on-screen, and a UI for inviting people is presented.

The command applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled. It applies only to shared devices.

### USAGE:

```
xCommand Webex Meetings InstantMeeting Start
```

## xCommand Webex Registration Cancel

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Cancel device registration to Webex.

This command only works in the short period after the registration is started with xCommand Webex Registration Start.

### USAGE:

```
xCommand Webex Registration Cancel
```

## xCommand Webex Registration ConvertToCloud

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Convert a device to be managed by the Webex cloud service.

This is only available on systems linked with Webex Edge for Devices. All current connections to on-premises services for calling and directory will be replaced with cloud data sources.

To convert back to on-premises again, the device must factory reset.

### USAGE:

```
xCommand Webex Registration ConvertToCloud Confirm: Confirm
```

where

Confirm:

Yes

Enter Yes, case-insensitive, to confirm that you will proceed with the command. Any other text will cancel the request.

## xCommand Webex Registration Logout

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN

Log a user out from a personalized system, typically Hot Desked shared system or personalized Webex Edge device.

### USAGE:

```
xCommand Webex Registration Logout
```

## xCommand Webex Registration Start

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Register a device to the Webex cloud service, or link it to Webex Edge for Devices, by entering the device activation code. Also choose whether to keep or deactivate existing local users and macros.

Unless you add the AccountLinkMode parameter, you will get a confirmation that the registration has been successful or failed.

### USAGE:

```
xCommand Webex Registration Start [AccountLinkMode: AccountLinkMode]  
ActivationCode: "ActivationCode" [RegistrationType: RegistrationType]  
SecurityAction: SecurityAction
```

where

AccountLinkMode:

*Asynchronous*

When adding this parameter, the command returns immediately and doesn't wait for account linking to complete. This is convenient when moving a shared mode device to personal mode; otherwise, the command may time out and return "failed" before the account linking is complete.

This parameter only applies to devices that are registered to the Webex cloud or linked to Webex Edge for Devices.

ActivationCode:

*String (0, 128)*

The activation code for the device.

RegistrationType:

*Hotdesk/Manual/Personalization*

The registration type records how the activation code was obtained. This parameter is mainly used by Control Hub and allows for more accurate configuration validation and error responses.

**Hotdesk:** Control Hub provides a temporary personal Webex account on the device. This only applies to devices that are registered to the Webex cloud or linked to Webex Edge for Devices.

**Manual:** An administrator or user manually enters the activation code when setting up the device. That is, by using the Setup assistant.

**Personalization:** Control Hub provides a permanent personal Webex account on a device that is linked to Webex Edge for Devices.

SecurityAction:

*Harden/NoAction*

**Harden:** Deactivate all existing local users and macros when registering the device.

**NoAction:** Register the device as it is. No changes to local users and macros.

## WebRTC commands

### xCommand WebRTC Join

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Join a WebRTC meeting (for example, Microsoft Teams or Google Meet).

WebRTC is only available for devices that are registered to an on-premises service and linked to Webex Edge for Devices,

and for devices that are registered to the Webex cloud service.

### USAGE:

```
xCommand WebRTC Join [BookingId: "BookingId"] [MeetingNumber:  
"MeetingNumber"] [Passcode: "Passcode"] [Title: "Title"] [TrackingData:  
"TrackingData"] [Type: Type] [Url: "Uri"]
```

where

BookingId:

*String (0, 255)*

The BookingId is necessary for snooze and ignore to function correctly on a device.

It is an identifier that an external booking system (for example, TMS or CTS-MAN) can use for its own references to match placed calls with the booking systems internal identifier for a meeting. This can be any string, for example, a GUID. The booking Id is supplied in call logs, call events etc for the call.

MeetingNumber:

*String (0, 255)*

Exclusively for Google Meet, a meeting code can be specified to allow joining the meeting.

Passcode:

*String (0, 255)*

Not applicable in this software version.

Title:

*String (0, 255)*

The title displayed for the meeting.

TrackingData:

*String (0, 255)*

A tag or label that will be preserved and stored in the call history.

Default value: WebrtcJoin\_command

Type:

*GoogleMeet/MSTeams*

**GoogleMeet:** The meeting is a Google Meet meeting.

**MSTeams:** The meeting is a Microsoft Teams meeting.

Default value: MSTeams

Url:

*String (0, 2000)*

The URL for joining the meeting. Both Google Meet and Microsoft Teams meetings can be joined by providing this URL.

### xCommand WebRTC Provider Current Diagnostics Send

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Sends diagnostics from the WebRTC meeting app (for example, Microsoft Teams) to the meeting provider (for example, Microsoft).

These diagnostics are not available to Cisco.

WebRTC is only available for devices that are registered to an on-premises service and linked to Webex Edge for Devices, and for devices that are registered to the Webex cloud service.

**USAGE:**

```
xCommand WebRTC Provider Current Diagnostics Send
```

### xCommand WebRTC Provider GoogleMeet MeetingNumber Validate

*Applies to: All products*

Requires user role: ADMIN

Validates the meeting number provided for a Google Meet meeting.

WebRTC is only available for devices that are registered to an on-premises service and linked to Webex Edge for Devices,

and for devices that are registered to the Webex cloud service. Google Meet is not currently available on Desk.

**USAGE:**

```
xCommand WebRTC Provider GoogleMeet MeetingNumber Validate MeetingNumber:  
"MeetingNumber"
```

where

MeetingNumber:

*String (0, 255)*

The meeting code generated by the Google Meet meeting invitation.

## Whiteboard commands

### xCommand Whiteboard Email Cancel

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Cancel an ongoing send to email operation.

**USAGE:**

```
xCommand Whiteboard Email Cancel
```



## xCommand Whiteboard Email Send

Applies to: [RoomKitMini](#) [RoomBar](#) [RoomBarPro](#) [CodecEQ](#) [CodecPro](#) [DeskPro](#) [DeskMini](#) [DeskBoard](#) [BoardPro](#) [BoardProG2](#)

Requires user role: ADMIN, INTEGRATOR

Send whiteboards as PDF attachments to a list of email addresses using the locally configured SMTP server.

You must include at least one BoardUrl/AttachmentFileNames pair in the command. You may attach more than one whiteboard to the same email, by adding several pairs.

Refer to the NetworkServices SMTP settings to find how to set up the device to use an SMTP server.

### USAGE:

```
xCommand Whiteboard Email Send [AttachmentFileNames: AttachmentFileNames
[BoardUrls: BoardUrls] Body: "Body" [Recipients: Recipients] Subject: "Subject"
```

where

#### AttachmentFileNames:

*StringArray (0, 254) [multiple 255]*

The filename of a whiteboard to be attached to the email. The filename must end with ".pdf".

If you are attaching more than one whiteboard, you must add multiple AttachmentFileNames parameters in the same command, one for each file.

The number of AttachmentFileNames and BoardUrls must be the same, and each filename corresponds to a url in the same order.

#### BoardUrls:

*StringArray (0, 254) [multiple 255]*

The whiteboard to be attached to the email as a PDF file. The whiteboard is identified by its url, which you can find in the Conference Presentation Whiteboard BoardUrl status.

If you are attaching more than one whiteboard, you must add multiple BoardUrls parameters in the same command, one for each whiteboard.

#### Body:

*String (0, 65536)*

The body text of the email to be sent.

#### Recipients:

*StringArray (0, 254) [multiple 50]*

The list of email addresses to send the email to.

You must add at least one recipient. You may add multiple recipients in the same command, if so, add one Recipient parameter for each.

#### Subject:

*String (0, 128)*

The subject line of the email to be sent.

## Zoom commands

### xCommand Zoom Join

Applies to: *All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

This command builds the Zoom dial string based on the information in the command's parameters, and in the Zoom DefaultDomain and Zoom DialStringOptions settings. The Zoom meeting to join is identified by a MeetingID provided by Zoom or a BookingID. It's mandatory to include one of these parameters.

If using the BookingID, the device will fetch the join information from the booking. If the join information includes a passcode, it will be added to the dial string only if a passcode is not provided in the MeetingPasscode parameter. The domain is always included in the join information, so the Zoom DefaultDomain setting will be ignored. The Zoom DialStringOptions setting is ignored if the uri fetched from the join information has a format other than <meetingid>@<domain>.

If using the MeetingID, the domain and dial string options are always fetched from the Zoom DefaultDomain and Zoom DialStringOptions settings.

See "https://support.zoom.us/hc/en-us/articles/202405539-SIP-H-323-Room-Connector-Dial-Strings" for more information about Zoom's dial string format.

### USAGE:

```
xCommand Zoom Join [BookingID: "BookingID"] [DialCode: "DialCode"] [Domain:
"Domain"] [MeetingID: "MeetingID"] [HostKey: "HostKey"] [MeetingPasscode:
"MeetingPasscode"] [TrackingData: "TrackingData"]
```

where

#### BookingID:

*String (0, 255)*

Unique identifier of the booking. It's the Id that is returned by the Bookings List command.

#### DialCode:

*String (0, 255)*

When provided, it will be added on the end of the authority host like so: <meetingID.<passcode>.<options>.<hostkey>.<dialcode>@zoomcrc.com

If the DialCode is not provided, the trailing .<dialcode> is omitted from the uri.

#### Domain:

*String (0, 255)*

When provided, it will be used in place of the configured domain.

#### MeetingID:

*String (0, 255)*

The meeting number of the zoom meeting. Typically provided in the calendar invite or in the meeting link.

HostKey:

*String (0, 255)*

The key that is required to join the meeting as host.

MeetingPasscode:

*String (0, 255)*

The passcode for the meeting. Typically provided in the calendar invite or in the meeting link.

TrackingData:

*String (0, 255)*

A tag or label that will be preserved and stored in the call history.

Default value: ZoomJoin\_command

## Chapter 5

# xStatus commands

## Description of the xStatus commands

In this chapter, you can find all of the xStatus commands and the responses. Status type commands return information about the system and system processes. You can query all information or just some of it.

<b>Audio status</b> .....	<b>439</b>	xStatus Audio Input LocalInput [n] Direct .....	<b>445</b>
xStatus Audio Devices Bluetooth ActiveProfile .....	439	xStatus Audio Input LocalInput [n] MixerMode .....	445
xStatus Audio Devices HandsetUSB ConnectionStatus.....	439	xStatus Audio Input LocalInput [n] Mute .....	445
xStatus Audio Devices HandsetUSB Cradle.....	439	xStatus Audio Input LocalInput [n] Name.....	445
xStatus Audio Devices HeadsetAnalog ConnectionStatus .....	439	xStatus Audio Input RemoteInput [n] CallId .....	446
xStatus Audio Devices HeadsetUSB ConnectionStatus.....	439	xStatus Audio Microphones MusicMode.....	446
xStatus Audio Devices HeadsetUSB Description.....	440	xStatus Audio Microphones Mute .....	446
xStatus Audio Devices HeadsetUSB Manufacturer.....	440	xStatus Audio Microphones NoiseRemoval.....	446
xStatus Audio Input Connectors Ethernet [n] Mute .....	440	xStatus Audio Microphones VoiceActivityDetector Activity.....	446
xStatus Audio Input Connectors Ethernet [n] PacketsLost Total .....	440	xStatus Audio Output Connectors ARC [n] DelayMs .....	447
xStatus Audio Input Connectors Ethernet [n] PacketsReceived Total .....	440	xStatus Audio Output Connectors ARC [n] Mode.....	447
xStatus Audio Input Connectors Ethernet [n] StreamName .....	441	xStatus Audio Output Connectors HDMI [n] DelayMs .....	447
xStatus Audio Input Ethernet DiscoveredStream [n] Channels.....	441	xStatus Audio Output Connectors HDMI [n] MicPassthrough .....	447
xStatus Audio Input Ethernet DiscoveredStream [n] MedialP.....	441	xStatus Audio Output Connectors HDMI [n] Mode .....	447
xStatus Audio Input Ethernet DiscoveredStream [n] Name .....	441	xStatus Audio Output Connectors InternalSpeaker [n] DelayMs .....	448
xStatus Audio Input Ethernet DiscoveredStream [n] OriginIP.....	442	xStatus Audio Output Connectors InternalSpeaker [n] Mode.....	448
xStatus Audio Input Ethernet DiscoveredStream [n] Status .....	442	xStatus Audio Output Connectors Line [n] ConnectionStatus.....	448
xStatus Audio Output Connectors Ethernet [n] Channels.....	442	xStatus Audio Output Connectors Line [n] DelayMs.....	448
xStatus Audio Output Connectors Ethernet [n] DelayMs.....	442	xStatus Audio Output LocalOutput [n] AutoconnectRemote .....	448
xStatus Audio Output Connectors Ethernet [n] MedialP.....	442	xStatus Audio Output LocalOutput [n] Channels .....	449
xStatus Audio Output Connectors Ethernet [n] StreamName.....	443	xStatus Audio Output LocalOutput [n] Connector [n] .....	449
xStatus Audio Input Connectors HDMI [n] Mute .....	443	xStatus Audio Output LocalOutput [n] Input [n] Gain.....	449
xStatus Audio Input Connectors Line [n] Mute .....	443	xStatus Audio Output LocalOutput [n] Loudspeaker .....	449
xStatus Audio Input Connectors Microphone [n] ConnectionStatus .....	443	xStatus Audio Output LocalOutput [n] Name.....	450
xStatus Audio Input Connectors Microphone [n] EcReferenceDelay .....	443	xStatus Audio Output LocalOutput [n] VolumeControlled .....	450
xStatus Audio Input Connectors Microphone [n] Mute.....	444	xStatus Audio Output MeasuredHdmiArcDelay.....	450
xStatus Audio Input Connectors USBC [n] Mute .....	444	xStatus Audio Output MeasuredHdmiDelay .....	450
xStatus Audio Input LocalInput [n] AGC.....	444	xStatus Audio Output ReportedHdmiCecDelay.....	451
xStatus Audio Input LocalInput [n] Channels.....	444	xStatus Audio Output RemoteOutput [n] CallId .....	451
xStatus Audio Input LocalInput [n] Connector [n] .....	444	xStatus Audio Output RemoteOutput [n] Input [n] Gain .....	451

xStatus Audio SelectedDevice .....	451	xStatus Call [n] HoldReason .....	459
xStatus Audio Ultrasound Volume .....	452	xStatus Call [n] Ice .....	460
xStatus Audio USB ConnectionStatus Capture .....	452	xStatus Call [n] PlacedOnHold .....	460
xStatus Audio USB ConnectionStatus Playback .....	452	xStatus Call [n] Protocol .....	460
xStatus Audio USB Product .....	452	xStatus Call [n] ReceiveCallRate .....	460
xStatus Audio USB SerialNumber .....	453	xStatus Call [n] RemoteNumber .....	460
xStatus Audio USB TerminalType Capture .....	453	xStatus Call [n] Status .....	461
xStatus Audio USB TerminalType Playback .....	453	xStatus Call [n] TransmitCallRate .....	461
xStatus Audio USB VolumeControl Capture Max .....	453	<b>Cameras status .....</b>	<b>461</b>
xStatus Audio USB VolumeControl Capture Min .....	453	xStatus Cameras Background Image .....	461
xStatus Audio USB VolumeControl Capture Value .....	454	xStatus Cameras Background Mode .....	461
xStatus Audio USB VolumeControl Playback Max .....	454	xStatus Cameras Camera [n] Capabilities Options .....	462
xStatus Audio USB VolumeControl Playback Min .....	454	xStatus Cameras Camera [n] Connected .....	462
xStatus Audio USB VolumeControl Playback Value .....	454	xStatus Cameras Camera [n] DetectedConnector .....	462
xStatus Audio Volume .....	455	xStatus Cameras Camera [n] Flip .....	462
xStatus Audio VolumeHandsetUsb .....	455	xStatus Cameras Camera [n] Framerate .....	462
xStatus Audio VolumeHeadsetAnalog .....	455	xStatus Cameras Camera [n] HardwareID .....	462
xStatus Audio VolumeHeadsetBluetooth .....	455	xStatus Cameras Camera [n] Lenses [n] Lens .....	463
xStatus Audio VolumeHeadsetUsb .....	455	xStatus Cameras Camera [n] LightingConditions .....	463
xStatus Audio VolumeInternal .....	455	xStatus Cameras Camera [n] MacAddress .....	463
xStatus Audio VolumeMute .....	456	xStatus Cameras Camera [n] Manufacturer .....	463
<b>Bookings status .....</b>	<b>456</b>	xStatus Cameras Camera [n] Model .....	463
xStatus Bookings Availability Status .....	456	xStatus Cameras Camera [n] Position Focus .....	464
xStatus Bookings Availability TimeStamp .....	456	xStatus Cameras Camera [n] Position Lens .....	464
xStatus Bookings Current Id .....	457	xStatus Cameras Camera [n] Position Pan .....	464
<b>Call status .....</b>	<b>457</b>	xStatus Cameras Camera [n] Position Roll .....	464
xStatus Call [n] AnswerState .....	457	xStatus Cameras Camera [n] Position Tilt .....	464
xStatus Call [n] AttendedTransferFrom .....	457	xStatus Cameras Camera [n] Position Zoom .....	464
xStatus Call [n] CallbackNumber .....	458	xStatus Cameras Camera [n] SerialNumber .....	465
xStatus Call [n] CallType .....	458	xStatus Cameras Camera [n] SoftwareID .....	465
xStatus Call [n] DeviceType .....	458	xStatus Cameras PresenterTrack Availability .....	465
xStatus Call [n] Direction .....	458	xStatus Cameras PresenterTrack PresenterDetected .....	465
xStatus Call [n] DisplayName .....	459	xStatus Cameras PresenterTrack Status .....	466
xStatus Call [n] Duration .....	459	xStatus Cameras SpeakerTrack ActiveConnector .....	466
xStatus Call [n] Encryption Type .....	459	xStatus Cameras SpeakerTrack Availability .....	466
xStatus Call [n] FacilityServiceId .....	459	xStatus Cameras SpeakerTrack BackgroundMode .....	466

xStatus Cameras SpeakerTrack Frames Availability .....	467	xStatus Conference Call [n] Capabilities LockControl .....	474
xStatus Cameras SpeakerTrack Frames Status .....	467	xStatus Conference Call [n] Capabilities LowerAllHands .....	474
xStatus Cameras SpeakerTrack State .....	467	xStatus Conference Call [n] Capabilities LowerParticipantsHand .....	475
xStatus Cameras SpeakerTrack Status .....	467	xStatus Conference Call [n] Capabilities MeetingAssistant Start .....	475
xStatus Cameras SpeakerTrack ViewLimits Pan .....	468	xStatus Conference Call [n] Capabilities MeetingAssistant Stop .....	475
xStatus Cameras SpeakerTrack ViewLimits Status .....	468	xStatus Conference Call [n] Capabilities MoveToLobby .....	475
xStatus Cameras SpeakerTrack ViewLimits Tilt .....	468	xStatus Conference Call [n] Capabilities MuteAll .....	475
xStatus Cameras SpeakerTrack ViewLimits Zoom .....	468	xStatus Conference Call [n] Capabilities MuteOnEntry .....	476
<b>Capabilities status .....</b>	<b>469</b>	xStatus Conference Call [n] Capabilities ParticipantAdd .....	476
xStatus Capabilities Conference MaxActiveCalls .....	469	xStatus Conference Call [n] Capabilities ParticipantDisconnect .....	476
xStatus Capabilities Conference MaxAudioCalls .....	469	xStatus Conference Call [n] Capabilities ParticipantList .....	476
xStatus Capabilities Conference MaxCalls .....	469	xStatus Conference Call [n] Capabilities ParticipantMute .....	476
xStatus Capabilities Conference MaxVideoCalls .....	469	xStatus Conference Call [n] Capabilities ParticipantRequestUnmute .....	477
<b>Conference status .....</b>	<b>470</b>	xStatus Conference Call [n] Capabilities Presentation .....	477
xStatus Conference ActiveSpeaker CallId .....	470	xStatus Conference Call [n] Capabilities RaiseHand .....	477
xStatus Conference Call [n] AuthenticationRequest .....	470	xStatus Conference Call [n] Capabilities Reactions .....	477
xStatus Conference Call [n] BookingId .....	471	xStatus Conference Call [n] Capabilities Recording Pause .....	477
xStatus Conference Call [n] Capabilities AdmitFromLobby .....	471	xStatus Conference Call [n] Capabilities Recording Resume .....	478
xStatus Conference Call [n] Capabilities Caption .....	471	xStatus Conference Call [n] Capabilities Recording Start .....	478
xStatus Conference Call [n] Capabilities DisableReactions .....	471	xStatus Conference Call [n] Capabilities Recording Stop .....	478
xStatus Conference Call [n] Capabilities DTMF .....	471	xStatus Conference Call [n] Capabilities SelfMute .....	478
xStatus Conference Call [n] Capabilities EnableReactions .....	472	xStatus Conference Call [n] Capabilities TransferHostAndLeave .....	478
xStatus Conference Call [n] Capabilities EndMeeting .....	472	xStatus Conference Call [n] Capabilities UnmuteAll .....	478
xStatus Conference Call [n] Capabilities EmergencyCallCapability .....	472	xStatus Conference Call [n] EventCenter Mode .....	478
xStatus Conference Call [n] Capabilities HardMute .....	472	xStatus Conference Call [n] HardMuted .....	479
xStatus Conference Call [n] Capabilities FarendMessage Mode .....	472	xStatus Conference Call [n] Locked .....	479
xStatus Conference Call [n] Capabilities FECC Mode .....	473	xStatus Conference Call [n] Manufacturer .....	479
xStatus Conference Call [n] Capabilities FECC NumberOfPresets .....	473	xStatus Conference Call [n] MeetingAssistantEnabled .....	479
xStatus Conference Call [n] Capabilities FECC NumberOfSources .....	473	xStatus Conference Call [n] MeetingPlatform .....	479
xStatus Conference Call [n] Capabilities FECC Source [n] Name .....	473	xStatus Conference Call [n] Meeting .....	479
xStatus Conference Call [n] Capabilities FECC Source [n] Options .....	473	xStatus Conference Call [n] MicrophonesMuted .....	480
xStatus Conference Call [n] Capabilities FECC Source [n] SourceId .....	473	xStatus Conference Call [n] ProximityCall .....	480
xStatus Conference Call [n] Capabilities Hold .....	474	xStatus Conference Call [n] RaiseHand .....	480
xStatus Conference Call [n] Capabilities IsModerator .....	474	xStatus Conference Call [n] Recording .....	480
xStatus Conference Call [n] Capabilities IxChannel Status .....	474	xStatus Conference Call [n] SimultaneousInterpretation Languages [n] LanguageCode .....	481
		xStatus Conference Call [n] SimultaneousInterpretation Languages [n] LanguageName .....	481
		xStatus Conference Call [n] SimultaneousInterpretation MixerLevel .....	482

xStatus Conference Call [n] SimultaneousInterpretation SelectedLanguage.....	482	xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SerialNumber.....	488
xStatus Conference Call [n] SessionType.....	482	xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SignatureAlgorithm.....	488
xStatus Conference Call [n] Sip SessionId.....	482	xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Subject [n] Name.....	489
xStatus Conference Call [n] SoftwareId.....	483	xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Validity.....	489
xStatus Conference Call [n] Streamed.....	483	xStatus Conference EndToEndEncryption InternalIdentity Identity.....	489
xStatus Conference Call [n] Transcoded.....	483	xStatus Conference EndToEndEncryption InternalIdentity Status.....	489
xStatus Conference Call [n] Webex MeetingInviteLink.....	483	xStatus Conference EndToEndEncryption InternalIdentity Verification.....	490
xStatus Conference DoNotDisturb.....	483	xStatus Conference HideNonVideo Active.....	490
xStatus Conference EndToEndEncryption Availability.....	484	xStatus Conference HideNonVideo Available.....	490
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Fingerprint.....	484	xStatus Conference Line [n] Mode.....	490
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] NotAfter..	484	xStatus Conference Multipoint Mode.....	491
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] NotBefore	484	xStatus Conference PeopleFocus Active.....	491
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] PrimaryName.....	485	xStatus Conference PeopleFocus Available.....	491
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] PublicKeyAlgorithm.....	485	xStatus Conference Presentation CallId.....	491
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] SerialNumber.....	485	xStatus Conference Presentation LocalInstance [n] DirectShare.....	492
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] SignatureAlgorithm.....	485	xStatus Conference Presentation LocalInstance [n] SendingMode.....	492
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Subject [n] Name.....	486	xStatus Conference Presentation LocalInstance [n] Source.....	492
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Validity....	486	xStatus Conference Presentation Mode.....	492
xStatus Conference EndToEndEncryption ExternalIdentity Identity.....	486	xStatus Conference Presentation Whiteboard BoardUrl.....	493
xStatus Conference EndToEndEncryption ExternalIdentity Status.....	486	xStatus Conference Presentation Whiteboard Mode.....	493
xStatus Conference EndToEndEncryption ExternalIdentity Verification.....	487	xStatus Conference SelectedCallProtocol.....	493
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Fingerprint	487	xStatus Conference SpeakerLock CallId.....	493
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotAfter...	487	xStatus Conference SpeakerLock Mode.....	493
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotBefore	487	<b>Diagnostics status.....</b>	<b>494</b>
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PrimaryName.....	488	xStatus Diagnostics Message [n] Description.....	494
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PublicKeyAlgorithm.....	488	xStatus Diagnostics Message [n] Level.....	494
		xStatus Diagnostics Message [n] References.....	494
		xStatus Diagnostics Message [n] Type.....	495
		<b>GPIO status.....</b>	<b>496</b>
		xStatus GPIO Pin [n] State.....	496
		<b>H323 status.....</b>	<b>496</b>
		xStatus H323 Gatekeeper Address.....	496

xStatus H323 Gatekeeper Port.....	496	xStatus MediaChannels Call [n] Channel [n] Video FrameRate .....	504
xStatus H323 Gatekeeper Reason .....	496	xStatus MediaChannels Call [n] Channel [n] Video intraFrames.....	504
xStatus H323 Gatekeeper Status .....	497	xStatus MediaChannels Call [n] Channel [n] Video Protocol .....	504
xStatus H323 Mode Reason.....	497	xStatus MediaChannels Call [n] Channel [n] Video ResolutionX.....	505
xStatus H323 Mode Status.....	497	xStatus MediaChannels Call [n] Channel [n] Video ResolutionY .....	505
<b>HttpFeedback status .....</b>	<b>498</b>	xStatus MediaChannels DirectShare [n] Channel [n] Audio Channels .....	505
xStatus HttpFeedback [n] Expression [n].....	498	xStatus MediaChannels DirectShare [n] Channel [n] Audio Protocol .....	506
xStatus HttpFeedback [n] Format .....	498	xStatus MediaChannels DirectShare [n] Channel [n] Encryption .....	506
xStatus HttpFeedback [n] Status .....	498	xStatus MediaChannels DirectShare [n] Channel [n] Netstat Bytes .....	506
xStatus HttpFeedback [n] URL.....	498	xStatus MediaChannels DirectShare [n] Channel [n] Netstat ChannelRate .....	506
<b>Logging status.....</b>	<b>499</b>	xStatus MediaChannels DirectShare [n] Channel [n] Netstat Jitter .....	507
xStatus Logging ExtendedLogging Mode .....	499	xStatus MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalLost .....	507
xStatus Logging ExtendedLogging PacketDump .....	499	xStatus MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalReceived .....	507
xStatus Logging ExtendedLogging RenderingDump.....	499	xStatus MediaChannels DirectShare [n] Channel [n] Netstat Loss .....	507
<b>MediaChannels status .....</b>	<b>500</b>	xStatus MediaChannels DirectShare [n] Channel [n] Netstat MaxJitter.....	508
xStatus MediaChannels Call [n] Channel [n] Audio ChannelRole .....	500	xStatus MediaChannels DirectShare [n] Channel [n] Netstat Packets.....	508
xStatus MediaChannels Call [n] Channel [n] Audio Channels.....	500	xStatus MediaChannels DirectShare [n] Channel [n] Video FrameRate.....	508
xStatus MediaChannels Call [n] Channel [n] Audio Mute.....	500	xStatus MediaChannels DirectShare [n] Channel [n] Video Protocol .....	508
xStatus MediaChannels Call [n] Channel [n] Audio Protocol .....	500	xStatus MediaChannels DirectShare [n] Channel [n] Video ResolutionX.....	508
xStatus MediaChannels Call [n] Channel [n] Direction.....	501	xStatus MediaChannels DirectShare [n] Channel [n] Video ResolutionY .....	509
xStatus MediaChannels Call [n] Channel [n] Encryption .....	501	<b>MicrosoftTeams status .....</b>	<b>509</b>
xStatus MediaChannels Call [n] Channel [n] NetStat Bytes .....	501	xStatus MicrosoftTeams Calling InCall .....	509
xStatus MediaChannels Call [n] Channel [n] NetStat ChannelRate.....	501	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] CroppedHeight.....	509
xStatus MediaChannels Call [n] Channel [n] Netstat EndToEndDelay.....	501	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] CroppedWidth.....	510
xStatus MediaChannels Call [n] Channel [n] NetStat Jitter.....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Fps.....	510
xStatus MediaChannels Call [n] Channel [n] NetStat LastIntervalLost.....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] FrameCount.....	510
xStatus MediaChannels Call [n] Channel [n] NetStat LastIntervalReceived.....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Height.....	510
xStatus MediaChannels Call [n] Channel [n] NetStat Loss .....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] OutputMode .....	510
xStatus MediaChannels Call [n] Channel [n] NetStat MaxJitter .....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs .....	511
xStatus MediaChannels Call [n] Channel [n] NetStat Packets .....	502	xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Width.....	511
xStatus MediaChannels Call [n] Channel [n] Netstat RoundTripTime .....	503	xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Fps .....	511
xStatus MediaChannels Call [n] Channel [n] ParticipantId.....	503	xStatus MicrosoftTeams HardwareAccelerator Encoder [n] FrameCount .....	511
xStatus MediaChannels Call [n] Channel [n] Type .....	503	xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Height .....	512
xStatus MediaChannels Call [n] Channel [n] Video ChannelRole .....	503	xStatus MicrosoftTeams HardwareAccelerator Encoder [n] InputMode.....	512
xStatus MediaChannels Call [n] Channel [n] Video ConcealmentType.....	504	xStatus MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs .....	512
		xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Width .....	512



xStatus MicrosoftTeams Pairing Active .....	513
xStatus MicrosoftTeams Software Version Android .....	513
xStatus MicrosoftTeams Software Version Authenticator .....	513
xStatus MicrosoftTeams Software Version CompanyPortalApp .....	513
xStatus MicrosoftTeams Software Version MicrosoftIntune .....	513
xStatus MicrosoftTeams Software Version OEMAgent .....	514
xStatus MicrosoftTeams Software Version TeamsAdminAgent .....	514
xStatus MicrosoftTeams Software Version TeamsApp .....	514
xStatus MicrosoftTeams Software VersionCode Authenticator .....	514
xStatus MicrosoftTeams Software VersionCode CompanyPortalApp .....	514
xStatus MicrosoftTeams Software VersionCode MicrosoftIntune.....	514
xStatus MicrosoftTeams Software VersionCode OEMAgent.....	515
xStatus MicrosoftTeams Software VersionCode TeamsAdminAgent .....	515
xStatus MicrosoftTeams Software VersionCode TeamsApp.....	515
xStatus MicrosoftTeams User SignedIn.....	515
<b>Network status .....</b>	<b>516</b>
xStatus Network [n] ActiveInterface .....	516
xStatus Network [n] CDP Address.....	516
xStatus Network [n] CDP Capabilities .....	516
xStatus Network [n] CDP DeviceId .....	516
xStatus Network [n] CDP Duplex .....	516
xStatus Network [n] CDP Platform.....	517
xStatus Network [n] CDP PortID .....	517
xStatus Network [n] CDP PrimaryMgmtAddress .....	517
xStatus Network [n] CDP SysName.....	517
xStatus Network [n] CDP SysObjectID .....	517
xStatus Network [n] CDP Version .....	517
xStatus Network [n] CDP VoIPApplianceVlanID.....	518
xStatus Network [n] CDP VTPMgmtDomain .....	518
xStatus Network [n] DNS Domain Name.....	518
xStatus Network [n] DNS Server [n] Address .....	518
xStatus Network [n] Ethernet MacAddress.....	518
xStatus Network [n] Ethernet Speed .....	518
xStatus Network [n] IEEE8021X Reason .....	519
xStatus Network [n] IEEE8021X Status .....	519
xStatus Network [n] IPv4 Address .....	519

xStatus Network [n] IPv4 Gateway.....	519
xStatus Network [n] IPv4 SubnetMask.....	519
xStatus Network [n] IPv6 Address .....	519
xStatus Network [n] IPv6 Gateway .....	520
xStatus Network [n] IPv6 LinkLocalAddress.....	520
xStatus Network [n] VLAN Voice VlanId .....	520
xStatus Network [n] Wifi BSSID .....	520
xStatus Network [n] Wifi Channel .....	520
xStatus Network [n] Wifi CLMVersion.....	520
xStatus Network [n] Wifi Connectivity .....	521
xStatus Network [n] Wifi Frequency .....	521
xStatus Network [n] Wifi FWVersion.....	521
xStatus Network [n] Wifi InterfaceEnabled .....	521
xStatus Network [n] Wifi InterfaceReason .....	521
xStatus Network [n] Wifi KeyMgmt .....	521
xStatus Network [n] Wifi MacAddress .....	522
xStatus Network [n] Wifi Noise .....	522
xStatus Network [n] Wifi Phase2Method .....	522
xStatus Network [n] Wifi RawSSID .....	522
xStatus Network [n] Wifi Reason .....	522
xStatus Network [n] Wifi Region .....	522
xStatus Network [n] Wifi RSSI.....	523
xStatus Network [n] Wifi ScanResult [n] AuthType .....	523
xStatus Network [n] Wifi ScanResult [n] RawSSID.....	523
xStatus Network [n] Wifi ScanResult [n] SignalLevel .....	523
xStatus Network [n] Wifi ScanResult [n] SSID .....	523
xStatus Network [n] Wifi SNR .....	523
xStatus Network [n] Wifi Speed.....	524
xStatus Network [n] Wifi SSID .....	524
xStatus Network [n] Wifi Status .....	524
xStatus Network [n] Wifi SWVersion .....	524
xStatus Network [n] Wifi ToolsVersion.....	525
xStatus Network [n] Wifi Type.....	525
<b>NetworkServices status .....</b>	<b>525</b>
xStatus NetworkServices NTP CurrentAddress.....	525
xStatus NetworkServices NTP Server [n] Address .....	525

xStatus NetworkServices NTP Status .....	526	xStatus Provisioning Software Current URL .....	532
xStatus NetworkServices UPnP Status .....	526	xStatus Provisioning Software Current VersionId .....	532
<b>Peripherals status .....</b>	<b>526</b>	xStatus Provisioning Software UpgradeStatus LastChange .....	533
xStatus Peripherals ConnectedDevice [n] DRAM .....	526	xStatus Provisioning Software UpgradeStatus Message .....	533
xStatus Peripherals ConnectedDevice [n] HardwareInfo .....	526	xStatus Provisioning Software UpgradeStatus Phase .....	533
xStatus Peripherals ConnectedDevice [n] ID .....	526	xStatus Provisioning Software UpgradeStatus SessionId .....	533
xStatus Peripherals ConnectedDevice [n] Location .....	527	xStatus Provisioning Software UpgradeStatus Status .....	533
xStatus Peripherals ConnectedDevice [n] Model .....	527	xStatus Provisioning Software UpgradeStatus Urgency .....	533
xStatus Peripherals ConnectedDevice [n] Name .....	527	xStatus Provisioning Software UpgradeStatus URL .....	534
xStatus Peripherals ConnectedDevice [n] NetworkAddress .....	527	xStatus Provisioning Software UpgradeStatus VersionId .....	534
xStatus Peripherals ConnectedDevice [n] Role .....	527	xStatus Provisioning Status .....	534
xStatus Peripherals ConnectedDevice [n] RoomAnalytics AirQuality Index .....	528	xStatus Provisioning WebexCalling Status .....	534
xStatus Peripherals ConnectedDevice [n] RoomAnalytics AmbientTemperature .....	528	<b>Proximity status .....</b>	<b>535</b>
xStatus Peripherals ConnectedDevice [n] RoomAnalytics RelativeHumidity .....	528	xStatus Proximity Services Availability .....	535
xStatus Peripherals ConnectedDevice [n] Security Certificates LastSynced .....	528	<b>RoomAnalytics status .....</b>	<b>535</b>
xStatus Peripherals ConnectedDevice [n] SerialNumber .....	529	xStatus RoomAnalytics AmbientNoise Level A .....	535
xStatus Peripherals ConnectedDevice [n] SoftwareInfo .....	529	xStatus RoomAnalytics AmbientTemperature .....	535
xStatus Peripherals ConnectedDevice [n] Status .....	529	xStatus RoomAnalytics Engagement CloseProximity .....	536
xStatus Peripherals ConnectedDevice [n] Type .....	529	xStatus RoomAnalytics PeopleCount Capacity .....	536
xStatus Peripherals ConnectedDevice [n] UpgradeFailureReason .....	529	xStatus RoomAnalytics PeopleCount Current .....	536
xStatus Peripherals ConnectedDevice [n] UpgradeStatus .....	530	xStatus RoomAnalytics PeoplePresence .....	537
xStatus Peripherals ConnectedDevice [n] UpgradeURL .....	530	xStatus RoomAnalytics RelativeHumidity .....	537
xStatus Peripherals PinPairing PinVisibleOnScreen .....	530	xStatus RoomAnalytics ReverberationTime LastRun .....	537
xStatus Peripherals PinPairing RetriesRemaining .....	530	xStatus RoomAnalytics ReverberationTime Middle RT60 .....	537
xStatus Peripherals PinPairing TimeRemaining .....	530	xStatus RoomAnalytics ReverberationTime Octaves [n] CenterFrequency .....	538
xStatus Peripherals Stylus [n] Presence .....	530	xStatus RoomAnalytics ReverberationTime Octaves [n] RT60 .....	538
<b>Provisioning status .....</b>	<b>531</b>	xStatus RoomAnalytics RoomInUse .....	538
xStatus Provisioning CUCM Customization Checksum .....	531	xStatus RoomAnalytics Sound Level A .....	538
xStatus Provisioning CUCM ExtensionMobility Enabled .....	531	xStatus RoomAnalytics T3Alarm Detected .....	539
xStatus Provisioning CUCM ExtensionMobility LastLoggedInUserId .....	531	xStatus RoomAnalytics UltrasoundPresence .....	539
xStatus Provisioning CUCM ExtensionMobility LoggedIn .....	531	<b>RoomPreset status .....</b>	<b>539</b>
xStatus Provisioning Reason .....	531	xStatus RoomPreset [n] Defined .....	539
xStatus Provisioning RoomType .....	532	xStatus RoomPreset [n] Description .....	539
xStatus Provisioning Server .....	532	xStatus RoomPreset [n] Type .....	539
xStatus Provisioning Software Current CompletedAt .....	532		

<b>Security status</b> .....	540	xStatus SystemUnit Hardware HasWifi.....	545
xStatus Security Persistency CallHistory .....	540	xStatus SystemUnit Hardware MainBoard Revision .....	546
xStatus Security Persistency Configurations .....	540	xStatus SystemUnit Hardware Module CompatibilityLevel .....	546
xStatus Security Persistency DHCP .....	540	xStatus SystemUnit Hardware Module DeviceId.....	546
xStatus Security Persistency InternalLogging .....	540	xStatus SystemUnit Hardware Module SerialNumber.....	546
xStatus Security Persistency LocalPhonebook.....	540	xStatus SystemUnit Hardware Monitoring Fan [n] Status.....	546
<b>Sensors status</b> .....	541	xStatus SystemUnit Hardware Monitoring Temperature Status.....	546
xStatus Sensors Radar Mode .....	541	xStatus SystemUnit Hardware UDI.....	547
<b>SIP status</b> .....	541	xStatus SystemUnit Hardware USBC [n] Connected.....	547
xStatus SIP AlternateURI Alias [n] URI.....	541	xStatus SystemUnit LastShutdownReason .....	547
xStatus SIP AlternateURI Primary URI.....	541	xStatus SystemUnit LastShutdownTime.....	547
xStatus SIP Authentication .....	541	xStatus SystemUnit Notifications Notification [n] Text.....	547
xStatus SIP CallForward DisplayName.....	542	xStatus SystemUnit Notifications Notification [n] Type.....	548
xStatus SIP CallForward Mode.....	542	xStatus SystemUnit ProductId.....	548
xStatus SIP CallForward URI .....	542	xStatus SystemUnit ProductPlatform .....	549
xStatus SIP Mailbox MessagesWaiting.....	542	xStatus SystemUnit ProductType .....	549
xStatus SIP Mailbox URI .....	542	xStatus SystemUnit Software DisplayName.....	549
xStatus SIP Proxy [n] Address.....	542	xStatus SystemUnit Software Name .....	549
xStatus SIP Proxy [n] Status .....	543	xStatus SystemUnit Software OptionKeys AVIntegrator .....	550
xStatus SIP Registration [n] Authentication .....	543	xStatus SystemUnit Software OptionKeys DeveloperPreview .....	550
xStatus SIP Registration [n] Reason .....	543	xStatus SystemUnit Software OptionKeys Encryption .....	550
xStatus SIP Registration [n] Status .....	543	xStatus SystemUnit Software OptionKeys MultiSite.....	550
xStatus SIP Registration [n] URI.....	543	xStatus SystemUnit Software OptionKeys RemoteMonitoring.....	550
xStatus SIP Secure.....	544	xStatus SystemUnit Software ReleaseDate.....	551
xStatus SIP Verified.....	544	xStatus SystemUnit Software Version.....	551
<b>Standby status</b> .....	544	xStatus SystemUnit State CameraLid .....	551
xStatus Standby Level.....	544	xStatus SystemUnit State NumberOfActiveCalls .....	551
xStatus Standby State .....	544	xStatus SystemUnit State NumberOfInProgressCalls .....	551
<b>SystemUnit status</b> .....	545	xStatus SystemUnit State NumberOfSuspendedCalls.....	551
xStatus SystemUnit BroadcastName.....	545	xStatus SystemUnit State Subsystem Application .....	552
xStatus SystemUnit Extensions Microsoft Supported.....	545	xStatus SystemUnit State System.....	552
xStatus SystemUnit DeveloperPreview Mode.....	545	xStatus SystemUnit Uptime.....	552
xStatus SystemUnit Hardware DRAM.....	545	<b>ThousandEyes status</b> .....	553
		xStatus ThousandEyes Status .....	553
		xStatus ThousandEyes Version .....	553

<b>Time status</b> .....	553	xStatus UserInterface Translation Override Checksum.....	562
xStatus Time SystemTime .....	553	xStatus UserInterface WebView [n] ErrorDescription .....	562
<b>UserInterface status</b> .....	554	xStatus UserInterface WebView [n] ErrorType.....	562
xStatus UserInterface Branding CustomId Background .....	554	xStatus UserInterface WebView [n] HttpStatusCode .....	563
xStatus UserInterface Branding CustomId Branding.....	554	xStatus UserInterface WebView [n] Status.....	563
xStatus UserInterface Branding CustomId HalfwakeBackground .....	554	xStatus UserInterface WebView [n] Type .....	563
xStatus UserInterface Branding CustomId HalfwakeBranding .....	554	xStatus UserInterface WebView [n] URL .....	563
xStatus UserInterface ContactInfo ContactMethod [n] Number.....	555	<b>UserPresence status</b> .....	564
xStatus UserInterface ContactInfo Name.....	555	xStatus Webex Services UserPresence CustomStatus .....	564
xStatus UserInterface Extensions Widget [n] Value .....	555	xStatus Webex Services UserPresence Status.....	564
xStatus UserInterface Extensions Widget [n] WidgetId.....	555	<b>Video status</b> .....	564
xStatus UserInterface Features Calendar Start.....	556	xStatus Video ActiveSpeaker PIPPosition .....	564
xStatus UserInterface Features Call AudioMute.....	556	xStatus Video Input AirPlay Activity .....	564
xStatus UserInterface Features Call Breakouts.....	556	xStatus Video Input AirPlay Status .....	565
xStatus UserInterface Features Call CameraControls.....	556	xStatus Video Input Connector [n] Connected .....	565
xStatus UserInterface Features Call End .....	557	xStatus Video Input Connector [n] ConnectedDevice CEC [n] DeviceType.....	565
xStatus UserInterface Features Call HdmIPassthrough .....	557	xStatus Video Input Connector [n] ConnectedDevice CEC [n] LogicalAddress .....	565
xStatus UserInterface Features Call JoinGoogleMeet .....	557	xStatus Video Input Connector [n] ConnectedDevice CEC [n] Name.....	565
xStatus UserInterface Features Call JoinWebex.....	557	xStatus Video Input Connector [n] ConnectedDevice CEC [n] PowerStatus.....	566
xStatus UserInterface Features Call JoinZoom .....	558	xStatus Video Input Connector [n] ConnectedDevice CEC [n] VendorId.....	566
xStatus UserInterface Features Call Keypad .....	558	xStatus Video Input Connector [n] SignalState .....	566
xStatus UserInterface Features Call LayoutControls.....	558	xStatus Video Input Connector [n] SourceId .....	566
xStatus UserInterface Features Call MidCallControls .....	558	xStatus Video Input Connector [n] Type .....	567
xStatus UserInterface Features Call MusicMode .....	559	xStatus Video Input DirectShare [n] Peer Address .....	567
xStatus UserInterface Features Call ParticipantList .....	559	xStatus Video Input DirectShare [n] Peer PeripheralID.....	567
xStatus UserInterface Features Call SelfviewControls.....	559	xStatus Video Input DirectShare [n] Type.....	567
xStatus UserInterface Features Call Start .....	559	xStatus Video Input MainVideoMute.....	567
xStatus UserInterface Features Call VideoMute.....	560	xStatus Video Input MainVideoSource .....	568
xStatus UserInterface Features Call Webcam.....	560	xStatus Video Input Miracast Channel.....	568
xStatus UserInterface Features Files Start.....	560	xStatus Video Input Miracast PinAttemptsLeft.....	568
xStatus UserInterface Features Share Start.....	560	xStatus Video Input Miracast Status.....	568
xStatus UserInterface Features Whiteboard Start.....	561	xStatus Video Input Miracast Transport .....	569
xStatus UserInterface LedControl Color .....	561	xStatus Video Input Source [n] ConnectorId .....	569
xStatus UserInterface OSD Output.....	561	xStatus Video Input Source [n] FormatStatus.....	569
xStatus UserInterface ScreenLock Status.....	561	xStatus Video Input Source [n] MediaChannelId .....	569
xStatus UserInterface SettingsMenu Visibility.....	562	xStatus Video Input Source [n] Resolution Height.....	570

xStatus Video Input Source [n] Resolution RefreshRate.....	570
xStatus Video Input Source [n] Resolution Width.....	570
xStatus Video Layout CurrentLayouts ActiveLayout .....	570
xStatus Video Layout CurrentLayouts AvailableLayouts [n] LayoutName .....	570
xStatus Video Layout CurrentLayouts DefaultLayout .....	571
xStatus Video Layout LayoutFamily Local .....	571
xStatus Video Layout LayoutFamily Remote .....	571
xStatus Video Monitors .....	571
xStatus Video Output Connector [n] Connected.....	571
xStatus Video Output Connector [n] ConnectedDevice CEC [n] DeviceType.....	572
xStatus Video Output Connector [n] ConnectedDevice CEC [n] LogicalAddress .....	572
xStatus Video Output Connector [n] ConnectedDevice CEC [n] Name.....	572
xStatus Video Output Connector [n] ConnectedDevice CEC [n] PowerStatus.....	572
xStatus Video Output Connector [n] ConnectedDevice CEC [n] VendorId.....	572
xStatus Video Output Connector [n] ConnectedDevice Name.....	573
xStatus Video Output Connector [n] ConnectedDevice PreferredFormat.....	573
xStatus Video Output Connector [n] ConnectedDevice ScreenSize.....	573
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1080_50 ..	573
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1080_60 ..	573
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1200_50 ..	574
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1200_60..	574
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_2560_1080_60 ..	574
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_2560_1440_60 ..	574
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_2880_1200_60 ..	575
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_3440_1440_60 ..	575
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_1600_60 ..	575
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_1620_60 ..	575
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_2160_30 ..	576
xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_2160_60 ..	576
xStatus Video Output Connector [n] Connected.....	576
xStatus Video Output Connector [n] HDCP State.....	576
xStatus Video Output Connector [n] MonitorRole .....	577
xStatus Video Output Connector [n] Resolution Height.....	577
xStatus Video Output Connector [n] Resolution RefreshRate .....	577
xStatus Video Output Connector [n] Resolution Width.....	577
xStatus Video Output Connector [n] Type .....	577
xStatus Video Output HDMI Passthrough Status .....	578

xStatus Video Output Monitor [n] Backlight.....	578
xStatus Video Output Monitor [n] Calibrated .....	578
xStatus Video Output Monitor [n] ColorTemperature Selected .....	578
xStatus Video Output Monitor [n] Configured.....	578
xStatus Video Output Monitor [n] FirmwareVersion.....	579
xStatus Video Output Monitor [n] IpAddress .....	579
xStatus Video Output Monitor [n] Manufacturer .....	579
xStatus Video Output Monitor [n] ManufacturerId .....	579
xStatus Video Output Monitor [n] MDC Id.....	579
xStatus Video Output Monitor [n] MDC Port.....	579
xStatus Video Output Monitor [n] ModelName .....	580
xStatus Video Output Monitor [n] Position.....	580
xStatus Video Output Monitor [n] SerialNumber.....	580
xStatus Video Output Monitor [n] Temperature .....	580
xStatus Video Output Webcam Mode .....	581
xStatus Video Output Webcam Status .....	581
xStatus Video Presentation PIPPosition .....	581
xStatus Video Selfview FullscreenMode .....	581
xStatus Video Selfview Mode.....	581
xStatus Video Selfview OnMonitorRole.....	582
xStatus Video Selfview PIPPosition.....	582
<b>WebEngine status.....</b>	<b>582</b>
xStatus WebEngine Features Signage .....	582
xStatus WebEngine Features WebEngine .....	582
xStatus WebEngine Features WebRTC .....	583
xStatus WebEngine LogLevel.....	583
xStatus WebEngine LogLevelVerbosity.....	583
xStatus WebEngine Tracing CustomCategories.....	583
xStatus WebEngine Tracing Duration .....	583
xStatus WebEngine Tracing Mode.....	583
xStatus WebEngine Tracing Systrace.....	584
<b>Webex status.....</b>	<b>584</b>
xStatus Webex DeveloperId .....	584
xStatus Webex DevicePersonalization Hotdesking SessionStatus .....	584
xStatus Webex Meetings InstantMeeting Availability .....	585
xStatus Webex Meetings JoinProtocol.....	585

xStatus Webex Services Proximity GuestToken.....	585
xStatus Webex Status .....	585
<b>WebRTC status.....</b>	<b>586</b>
xStatus WebRTC Provider GoogleMeet Availability .....	586
xStatus WebRTC Provider MicrosoftTeams Availability.....	586

## Audio status

### xStatus Audio Devices Bluetooth ActiveProfile

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the Bluetooth® headset profile currently in use.

Value space of the result returned:

*None/HFP/A2DP*

HFP (Hands-Free Profile), A2DP (Advanced Audio Distribution Profile), or None, no profile in use.

Example:

```
xStatus Audio Devices Bluetooth ActiveProfile
*s Audio Devices Bluetooth ActiveProfile: None
** end
```

### xStatus Audio Devices HandsetUSB ConnectionStatus

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows if a USB headset is connected.

Value space of the result returned:

*Connected/NotConnected*

Example:

```
xStatus Audio Devices HandsetUSB ConnectionStatus
*s Connected
** end
```

### xStatus Audio Devices HandsetUSB Cradle

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows if a USB headset is on hook or off hook.

Value space of the result returned:

*OnHook/OffHook*

Example:

```
xStatus Audio Devices HandsetUSB Cradle
*s OnHook
** end
```

### xStatus Audio Devices HeadsetAnalog ConnectionStatus

*Applies to: DeskPro*

Requires user role: ADMIN, USER

Shows if an analog headset is connected.

Value space of the result returned:

*Connected/NotConnected*

Example:

```
xStatus Audio Devices HeadsetAnalog Connection Status
*s Connected
** end
```

### xStatus Audio Devices HeadsetUSB ConnectionStatus

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows if a USB headset is connected.

Value space of the result returned:

*Connected/NotConnected*

Example:

```
xStatus Audio Devices HeadsetUSB ConnectionStatus
*s Connected
** end
```

### xStatus Audio Devices HeadsetUSB Description

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows a description of the attached USB headset.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Devices HeadsetUSB Description
*s HeadsetUSB Description: "Description of USB headset."
** end
```

### xStatus Audio Devices HeadsetUSB Manufacturer

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Lists the USB headset manufacturer.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Devices HeadsetUSB Manufacturer
*s HeadsetUSB Manufacturer: "CompanyName"
** end
```

### xStatus Audio Input Connectors Ethernet [n] Mute

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows whether the audio channel on an Ethernet connector is muted or not.

Value space of the result returned:

*Off/On*

Example:

```
xStatus Audio Input Connectors Ethernet 1 Mute
*s Audio Input Connectors Ethernet 1 Mute: Off
** end
```

### xStatus Audio Input Connectors Ethernet [n] PacketsLost Total

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Returns the total number of packets lost on this Ethernet connector.

You can reset this counter using the Audio LocalInput Ethernet PacketStatisticsReset command.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Input Connectors Ethernet 1 PacketsLost Total
*s Audio Input Connectors Ethernet 1 PacketsLost Total: 345
** end
```

### xStatus Audio Input Connectors Ethernet [n] PacketsReceived Total

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Returns the total number of packets received on this Ethernet connector.

You can reset this counter using the Audio LocalInput Ethernet PacketStatisticsReset command.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Input Connectors Ethernet 1 PacketsReceived Total
*s Audio Input Connectors Ethernet 1 PacketsReceived Total: 30450
** end
```



### xStatus Audio Input Connectors Ethernet [n] StreamName

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

Lists the name of the stream that is associated with this logical Ethernet input connector.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input Connectors Ethernet 1 StreamName
*s Audio Input Connectors Ethernet 1 StreamName: "MyEthernetStream"
** end
```

### xStatus Audio Input Ethernet DiscoveredStream [n] Channels

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

All discovered input streams (refer to the Audio Ethernet SAPDiscovery setting) will be enumerated (index n) and visible as DiscoveredStream [n].

Returns the number of channels that are transmitted in this discovered stream.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Input Ethernet DiscoveredStream 1 Channels
*s Audio Input Ethernet DiscoveredStream 1 Channels: 2
** end
```

### xStatus Audio Input Ethernet DiscoveredStream [n] MediaIP

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

All discovered input streams (refer to the Audio Ethernet SAPDiscovery setting) will be enumerated (index n) and visible as DiscoveredStream [n].

Returns the IP address that is used for audio transmission in this discovered stream.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input Ethernet DiscoveredStream 1 MediaIP
*s Audio Input Ethernet DiscoveredStream 1 MediaIP: "239.xxx.xxx.xxx"
** end
```

### xStatus Audio Input Ethernet DiscoveredStream [n] Name

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

All discovered input streams (refer to the Audio Ethernet SAPDiscovery setting) will be enumerated (index n) and visible as DiscoveredStream [n].

Returns the name of this discovered stream.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input Ethernet DiscoveredStream 1 Name
*s Audio Input Ethernet DiscoveredStream 1 Name: "YourEthernetStream"
** end
```

### xStatus Audio Input Ethernet DiscoveredStream [n] OriginIP

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

All discovered input streams (refer to the Audio Ethernet SAPDiscovery setting) will be enumerated (index n) and visible as DiscoveredStream [n].

Returns the IP address of the peripheral device that provides the discovered stream.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input Ethernet DiscoveredStream 1 OriginIP
*s Audio Input Ethernet DiscoveredStream 1 OriginIP: "169.254.1.xxx"
** end
```

### xStatus Audio Input Ethernet DiscoveredStream [n] Status

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, USER

All discovered input streams (refer to the Audio Ethernet SAPDiscovery setting) will be enumerated (index n) and visible as DiscoveredStream [n].

Returns error messages or status from a discovered stream.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input Ethernet DiscoveredStream 1 Status
*s Audio Input Ethernet DiscoveredStream 1 Status: "Valid offer"
** end
```

### xStatus Audio Output Connectors Ethernet [n] Channels

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Returns the number of channels that are transmitted in the stream that is associated with this logical Ethernet output connector.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Output Connectors Ethernet 3 Channels
*s Audio Output Connectors Ethernet 3 Channels: 2
** end
```

### xStatus Audio Output Connectors Ethernet [n] DelayMs

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Show the audio delay applied to the Ethernet connector.

Value space of the result returned:

*Integer*

The delay in milliseconds.

Example:

```
xStatus Audio Output Connectors Ethernet 1 DelayMs
*s Audio Output Connectors Ethernet 3 DelayMs: 60
** end
```

### xStatus Audio Output Connectors Ethernet [n] MediaIP

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Returns the IP address that is used for audio transmission in the stream that is associated with this logical Ethernet output connector.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Output Connectors Ethernet 3 MediaIP
*s Audio Output Connectors Ethernet 3 MediaIP: "239.xxx.xxx.xxx"
** end
```

### xStatus Audio Output Connectors Ethernet [n] StreamName

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

Returns the name of the stream that is associated with this logical Ethernet output connector.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Output Connectors Ethernet 3 StreamName
*s Audio Output Connectors Ethernet 3 StreamName: "MyEthernetStream"
** end
```

### xStatus Audio Input Connectors HDMI [n] Mute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the audio channel on a HDMI input connector is muted or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input Connectors HDMI 1 Mute
*s Audio Input Connectors HDMI 1 Mute: Off
** end
```

### xStatus Audio Input Connectors Line [n] Mute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the audio on a Line input connector is muted or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input Connectors Line 1 Mute
*s Audio Input Connectors Line 1 Mute: Off
** end
```

### xStatus Audio Input Connectors Microphone [n] ConnectionStatus

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Indicates whether a microphone is detected on the microphone input connector.

Value space of the result returned:

*Connected/NotConnected/Unknown*

**Connected:** A microphone is connected.

**NotConnected:** Nothing is connected.

**Unknown:** The video device is not able to detect if a microphone is connected.

Example:

```
xStatus Audio Input Connectors Microphone ConnectionStatus
*s Audio Input Connectors Microphone 1 ConnectionStatus: NotConnected
*s Audio Input Connectors Microphone 2 ConnectionStatus: Connected
** end
```

### xStatus Audio Input Connectors Microphone [n] EcReferenceDelay

*Applies to: RoomKit RoomKitMini RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board*

Requires user role: ADMIN, USER

Returns the detected latency for each loudspeaker to microphone path. The result is in milliseconds.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Input Connectors Microphone 1 EcReferenceDelay
*s Audio Input Connectors Microphone 1 EcReferenceDelay: 120
** end
```

## xStatus Audio Input Connectors Microphone [n] Mute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the audio on a Microphone input connector is muted or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input Connectors Microphone 1 Mute
*s Audio Input Connectors Microphone 1 Mute: Off
** end
```

## xStatus Audio Input Connectors USBC [n] Mute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the audio channel on a USB-C input connector is muted or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input Connectors USBC 1 Mute
*s Audio Input Connectors USBC 1 Mute: Off
** end
```

## xStatus Audio Input LocalInput [n] AGC

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the AGC (Automatic Gain Control) mode on the local input. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input LocalInput 1 AGC
*s Audio Input LocalInput 1 AGC: "On"
** end
```

## xStatus Audio Input LocalInput [n] Channels

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

States if the local input channels are mixed into a mono signal (1) or stereo signal (2). You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*1..2*

Example:

```
xStatus Audio Input LocalInput 1 Channels
*s Audio Input LocalInput 1 Channels: 1
** end
```

## xStatus Audio Input LocalInput [n] Connector [n]

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Lists the connectors that are attached to the local input. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*Microphone.n/Line.n/HDMI.n/Ethernet.n/ARC.n/WebView.n/AirPlay.n/USBC.n/USBInterface.n*

Example:

```
xStatus Audio Input LocalInput 1 Connector
*s Audio Input LocalInput 1 Connector: "Microphone.1"
** end
```

## xStatus Audio Input LocalInput [n] Direct

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows whether or not input processing such as acoustic echo cancellation and noise reduction is bypassed on this local input. Bypassing the input processing reduces the audio input delay, which is useful when doing local sound reinforcement. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*Off/On*

**Off:** All regular input processing is performed, according to the configuration of each connector.

**On:** Bypass input processing such as acoustic echo cancellation and noise reduction, regardless of the configuration for each connected input connector.

Example:

```
xStatus Audio Input LocalInput 1 Direct
*s Audio Input LocalInput 1 Direct: "Off"
** end
```

## xStatus Audio Input LocalInput [n] MixerMode

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows how the local input connectors have been mixed together. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*Auto/Fixed/GainShared*

**Auto:** The microphone with the strongest speaker is active and the others are strongly attenuated.

**Fixed:** The input connector signals are mixed together with equal gains.

**GainShared:** The microphones are given a normalized gain factor relative to the strongest speaker before being mixed together.

Example:

```
xStatus Audio Input LocalInput 1 MixerMode
*s Audio Input LocalInput 1 MixerMode: "Auto"
** end
```

## xStatus Audio Input LocalInput [n] Mute

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the mute mode for the local inputs. A local input is a mix of input connectors. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Input LocalInput 1 Mute
*s Audio Input LocalInput 1 Mute: "Off"
** end
```

## xStatus Audio Input LocalInput [n] Name

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the name of the local input. A local input is a mix of input connectors. You can run the command xStatus Audio Input LocalInput to find the identity [n] of the input.

Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Input LocalInput 1 Name
*s Audio Input LocalInput 1 Name: "Microphone"
** end
```

## xStatus Audio Input RemoteInput [n] CallId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the CallId for the remote audio input. You can run the command xStatus Audio Input RemoteInput to find the identity [n] of the input.

Value space of the result returned:

*0..65534*

Example:

```
xStatus Audio Input RemoteInput 8 CallId
*s Audio Input RemoteInput 8 CallId: 28
** end
```

## xStatus Audio Microphones MusicMode

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether MusicMode is on or off.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Microphones MusicMode
*s Audio Microphones MusicMode: Off
** end
```

## xStatus Audio Microphones Mute

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the microphones are muted.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Microphones Mute
*s Audio Microphones Mute: Off
** end
```

## xStatus Audio Microphones NoiseRemoval

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Off/On*

Reports if the background noise removal function is active (On) or not (Off). Refer to the Audio Microphones NoiseRemoval Mode setting for more details.

Example:

```
xStatus Audio Microphones NoiseRemoval
*s Audio Microphones NoiseRemoval: On
** end
```

## xStatus Audio Microphones VoiceActivityDetector Activity

*Applies to: All products*

Requires user role: ADMIN, USER

This status is returned only if voice activity detection is turned on with the Audio Microphones VoiceActivityDetector Mode setting. Then, the status reports whether the picked-up audio signal is voice or just background noise or other sounds.

Value space of the result returned:

*False/True*

**False:** Voice is currently not detected.

**True:** Voice is currently detected.

Example:

```
xStatus Audio Microphones VoiceActivityDetector Activity
*s Audio Microphones VoiceActivityDetector Activity: True
** end
```

### xStatus Audio Output Connectors ARC [n] DelayMs

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the delay of the ARC output.

Value space of the result returned:

*Integer*

The delay in milliseconds.

Example:

```
xStatus Audio Output Connectors ARC 1 DelayMs
*s Audio Output Connectors ARC 1 DelayMs: 60
** end
```

### xStatus Audio Output Connectors ARC [n] Mode

*Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the audio channel on the ARC output connector is enabled or disabled.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Output Connectors ARC 1 Mode
*s Audio Output Connectors ARC 1 Mode: Off
** end
```

### xStatus Audio Output Connectors HDMI [n] DelayMs

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the delay of the HDMI output.

Value space of the result returned:

*Integer*

The delay in milliseconds.

Example:

```
xStatus Audio Output Connectors HDMI 1 DelayMs
*s Audio Output Connectors HDMI 1 DelayMs: 60
** end
```

### xStatus Audio Output Connectors HDMI [n] MicPassthrough

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

Reports whether the device is set up for streaming audio from its microphones on the HDMI [n] output. The status changes with both the Video Output HDMI Passthrough Start/Stop commands and the Audio Microphones Passthrough Start/Stop commands.

The Call from laptop feature affects this status, as it turns microphone passthrough on and off for the output where the HDMI-to-USB converter is connected. See the Video Output HDMI Passthrough Allowed configuration for more information.

This status doesn't apply to Room 55 Dual and Room 70 Dual.

Value space of the result returned:

*Manual/Off/On*

**On:** The device is set up for streaming audio on the HDMI output.

**Off:** The device is not set up for streaming audio on the HDMI output.

**Manual:** The Audio Output ConnectorSetup configuration is Manual, which means that the audio chains are manually set up using the Audio Console application or API commands.

Example:

```
xStatus Audio Output Connectors HDMI 2 MicPassthrough
*s Audio Output Connectors HDMI 3 MicPassthrough: On
** end
```

### xStatus Audio Output Connectors HDMI [n] Mode

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the audio channel on the HDMI output connector is enabled or disabled, or if the connector is being used to measure the audio delay through the connected video display.

Value space of the result returned:

*On/Off/DelayMeasurement*

**On:** The audio channel on the HDMI output connector is enabled.

**Off:** The audio channel on the HDMI output connector is disabled

**DelayMeasurement:** The connector is being used to measure the audio delay through the connected video display.

Example:

```
xStatus Audio Output Connectors HDMI 1 Mode
*s Audio Output Connectors HDMI 1 Mode: On
** end
```

### xStatus Audio Output Connectors InternalSpeaker [n] DelayMs

*Applies to:* RoomKit RoomKitMini RoomBar RoomBarPro CodecPlus CodecPro

Requires user role: ADMIN, INTEGRATOR, USER

Shows the delay of the internal loudspeaker.

Value space of the result returned:

*Integer*

The delay in milliseconds.

Example:

```
xStatus Audio Output Connectors InternalSpeaker 1 DelayMs
*s Audio Output Connectors InternalSpeaker 1 DelayMs: 0
** end
```

### xStatus Audio Output Connectors InternalSpeaker [n] Mode

*Applies to:* RoomKitMini RoomBar RoomBarPro CodecPlus CodecPro

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the device's integrated speakers are enabled or disabled.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Audio Output Connectors InternalSpeaker 1 Mode
*s Audio Output Connectors InternalSpeaker 1 Mode: On
** end
```

### xStatus Audio Output Connectors Line [n] ConnectionStatus

*Applies to:* RoomKit RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the audio output line is connected.

Value space of the result returned:

*Connected/NotConnected/Unknown*

**Connected:** A device is connected.

**NotConnected:** Nothing is connected.

**Unknown:** The device is not able to detect if anything is connected.

Example:

```
xStatus Audio Output Connectors Line 1 ConnectionStatus
*s Audio Output Connectors Line 1 ConnectionStatus: Connected
** end
```

### xStatus Audio Output Connectors Line [n] DelayMs

*Applies to:* All products

Requires user role: ADMIN, INTEGRATOR, USER

Shows the delay in milliseconds.

Value space of the result returned:

*Integer (0..290)*

Example:

```
xStatus Audio Output Connectors Line 1 DelayMs
*s Audio Output Connectors Line 1 DelayMs: 60
** end
```

### xStatus Audio Output LocalOutput [n] AutoconnectRemote

*Applies to:* RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2

Requires user role: ADMIN, USER

Shows whether or not the remote input signal (from far-end) is automatically added to this local output. It can always be added manually using the Audio LocalOutput ConnectInput command.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*On/Off*

**On:** The remote input signal is automatically added to all local outputs when in a call.

**Off:** The remote input signal is not automatically added to the local output.

Example:

```
xStatus Audio Output LocalOutput 4 AutoconnectRemote
*s Audio Output LocalOutput 4 AutoconnectRemote: "On"
** end
```



## xStatus Audio Output LocalOutput [n] Channels

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

States if the local output channels are mixed into a mono signal (1) or stereo signal (2). You can run the command `xStatus Audio Output LocalOutput` to find the identity [n] of the output.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

1..2

Example:

```
xStatus Audio Output LocalOutput 4 Channels
*s Audio Output LocalOutput 4 Channels: "1"
** end
```

## xStatus Audio Output LocalOutput [n] Connector [n]

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Lists the connectors that are attached to the local output. You can run the command `xStatus Audio Output LocalOutput` to find the identity [n] of the output.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*InternalSpeaker.n/Line.n/HDMI.n/Ethernet.n/ARC.n/WebView.n/USBC.n/USBInterface.n*

Example:

```
xStatus Audio Output LocalOutput 4 Connector
*s Audio Output LocalOutput 4 Connector: "Line.1"
** end
```

## xStatus Audio Output LocalOutput [n] Input [n] Gain

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the gain (dB) on the input, when it is connected to the local output. You can run the command `xStatus Audio Output LocalOutput` to find the identity [n] of the output and input.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

-54..15

Range from -54 dB to 15 dB, where -54 dB equals Off.

Example:

```
xStatus Audio Output LocalOutput 4 Input 2 Gain
*s Audio Output LocalOutput 4 Input 2 Gain: 0
** end
```

## xStatus Audio Output LocalOutput [n] Loudspeaker

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the Loudspeaker mode on the local output. If one or more of the output connectors that are attached to the local output are connected to a loudspeaker, then this signal should be a reference signal to the echo canceler and Loudspeaker should be set to On. You can run the command `xStatus Audio Output LocalOutput` to find the identity [n] of the output.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

On/Off

Example:

```
xStatus Audio Output LocalOutput 4 Loudspeaker
*s Audio Output LocalOutput 4 Loudspeaker: "Off"
** end
```

## xStatus Audio Output LocalOutput [n] Name

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the name of the local output. You can run the command xStatus Audio Output LocalOutput to find the identity [n] of the output.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*String*

Example:

```
xStatus Audio Output LocalOutput 4 Name
*s Audio Output LocalOutput 4 Name: "MyLocalOutput1"
** end
```

## xStatus Audio Output LocalOutput [n] VolumeControlled

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows where this output's volume is controlled from.

Board Pro, Board Pro G2, Bar Pro, Codec EQ: AVIntegrator option required.

Value space of the result returned:

*On/Off*

**Off:** This output's volume is controlled by global audio control.

**On:** This output's volume is at the level defined with xCommand Audio Volume Set.

Example:

```
xStatus Audio Output LocalOutput 5 VolumeControlled
*s Audio Output LocalOutput 5 VolumeControlled: "On"
** end
```

## xStatus Audio Output MeasuredHdmiArcDelay

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the measured audio delay of the device connected to the HDMI connector. This delay is measured through the HDMI audio return channel, and will secure good lip-synchronization between audio and video.

Value space of the result returned:

*Integer*

The measured audio delay in milliseconds.

Example:

```
xStatus Audio Output MeasuredHdmiArcDelay
*s Audio Output MeasuredHdmiArcDelay: 85
** end
```

## xStatus Audio Output MeasuredHdmiDelay

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the measured audio delay of the device connected to the HDMI connector. This delay is measured from the HDMI output to one of the microphones.

Value space of the result returned:

*Integer*

The measured audio delay in milliseconds.

Example:

```
xStatus Audio Output MeasuredHdmiDelay
*s Audio Output MeasuredHdmiDelay: 134
** end
```

### xStatus Audio Output ReportedHdmiCecDelay

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the reported video delay of the device connected to the HDMI connector. This delay is reported through the consumer electronics control (CEC) protocol, and will secure good lip-synchronization between audio and video.

Value space of the result returned:

*Integer*

The measured audio delay in milliseconds.

Example:

```
xStatus Audio Output ReportedHdmiCecDelay
*s Audio Output ReportedHdmiCecDelay: 39
** end
```

### xStatus Audio Output RemoteOutput [n] CallId

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the CallId for the remote audio output. You can run the command xStatus Audio Output RemoteOutput to find the identity [n] of the output.

Value space of the result returned:

*1..65534*

Example:

```
xStatus Audio Output RemoteOutput 9 CallId
*s Audio Output RemoteOutput 9 CallId: 28
** end
```

### xStatus Audio Output RemoteOutput [n] Input [n] Gain

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the gain (dB) on the input, when input is connected to the remote output. Range from -54 dB to 15 dB, where -54 dB equals Off.

You can run the command xStatus Audio Output RemoteOutput to find the identity [n] of the output and input.

Value space of the result returned:

*-54..15*

Example:

```
xStatus Audio Output RemoteOutput 9 Input 1 Gain
*s Audio Output RemoteOutput 9 Input 1 Gain: 0
** end
```

### xStatus Audio SelectedDevice

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini DeskBoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the audio device that is selected. Bluetooth headsets are only supported by Desk Series, Board Pro, Board Pro G2, Room Bar, and Room Bar Pro. Analog headsets are only supported by Desk Pro.

Value space of the result returned:

*Internal/HeadsetUSB/HeadsetAnalog/HeadsetBluetooth/HandsetUSB*

Example:

```
xStatus Audio SelectedDevice
*s Audio SelectedDevice: Internal
** end
```

## xStatus Audio Ultrasound Volume

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the ultrasound volume.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio Ultrasound Volume
*s Audio Ultrasound Volume: 70
** end
```

## xStatus Audio USB ConnectionStatus Capture

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether a USB capture device (e.g. a microphone) is physically connected to a USB connector and whether the audio channel is enabled. Refer to the Audio USB Mode setting to see how to enable audio channels on the USB connector.

Value space of the result returned:

*Connected/NotConnected*

**Connected:** A USB capture device is connected, and the audio input channel is enabled.

**NotConnected:** Either no USB capture device is connected, or the audio input channel is disabled.

Example:

```
xStatus Audio USB ConnectionStatus Capture
*s Audio USB ConnectionStatus Capture: Connected
** end
```

## xStatus Audio USB ConnectionStatus Playback

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether a USB playback device (e.g. a loudspeaker) is physically connected to a USB connector and whether the audio channel is enabled. Refer to the Audio USB Mode setting to see how to enable audio channels on the USB connector.

Value space of the result returned:

*Connected/NotConnected*

**Connected:** A USB capture device is connected, and the audio output channel is enabled.

**NotConnected:** Either no USB capture device is connected, or the audio output channel is disabled.

Example:

```
xStatus Audio USB ConnectionStatus Playback
*s Audio USB ConnectionStatus Playback: Connected
** end
```

## xStatus Audio USB Product

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the product model and manufacturer of the audio device, as reported in the USB device's Device Descriptor.

Value space of the result returned:

*String*

Example:

```
xStatus Audio USB Product
*s Audio USB Product: "MyModel, MyManufacturer"
** end
```

## xStatus Audio USB SerialNumber

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the serial number of the USB audio device, as reported in the USB device's Device Descriptor.

Value space of the result returned:

*String*

Example:

```
xStatus Audio USB SerialNumber
*s Audio USB SerialNumber: "1234567890ABC"
** end
```

## xStatus Audio USB TerminalType Capture

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the terminal type of the USB audio capture device. Refer to the "USB Device Class Definition for Terminal Types" standard.

Value space of the result returned:

*String*

Example:

```
xStatus Audio USB TerminalType Capture
*s Audio USB TerminalType Capture: "Echo-canceling speakerphone"
** end
```

## xStatus Audio USB TerminalType Playback

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the terminal type of the USB audio playback device. Refer to the "USB Device Class Definition for Terminal Types" standard.

Value space of the result returned:

*String*

Example:

```
xStatus Audio USB TerminalType Playback
*s Audio USB TerminalType Playback: "Echo-canceling speakerphone"
** end
```

## xStatus Audio USB VolumeControl Capture Max

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The maximum gain (in dB) that a connected USB capture device (e.g. a microphone) can apply before sending its audio signal to the video device.

This status is only available if the USB device supports volume control.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Capture Max
*s Audio USB VolumeControl Capture Max: 15
** end
```

## xStatus Audio USB VolumeControl Capture Min

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The minimum gain (in dB) that a connected USB capture device (e.g. a microphone) can apply before sending its audio signal to the video device.

This status is only available if the USB device supports volume control.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Capture Min
*s Audio USB VolumeControl Capture Min: -15
** end
```

### xStatus Audio USB VolumeControl Capture Value

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The actual gain (in dB) that a connected USB capture device (e.g. a microphone) applies to the audio signal before sending it to the video device.

This status is only available if the USB device supports volume control.

Refer to the Audio USB VolumeControl Capture Value setting to see how this value can be changed.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Capture Value
*s Audio USB VolumeControl Capture Value: 6
** end
```

### xStatus Audio USB VolumeControl Playback Max

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The maximum gain (in dB) that a connected USB playback device (e.g. a loudspeaker) can apply after receiving the audio signal from the video device.

This status is only available if the USB device supports volume control.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Playback Max
*s Audio USB VolumeControl Playback Max: 15
** end
```

### xStatus Audio USB VolumeControl Playback Min

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The minimum gain (in dB) that a connected USB playback device (e.g. a loudspeaker) can apply after receiving the audio signal from the video device.

This status is only available if the USB device supports volume control.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Playback Min
*s Audio USB VolumeControl Playback Min: -15
** end
```

### xStatus Audio USB VolumeControl Playback Value

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The actual gain (in dB) that a connected USB playback device (e.g. a loudspeaker) applies to the audio signal before playing it back.

This status is only available if the USB device supports volume control.

Refer to the Audio USB VolumeControl Playback Value setting to see how this value can be changed.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio USB VolumeControl Playback Value
*s Audio USB VolumeControl Playback Volume: 6
** end
```

## xStatus Audio Volume

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the volume level (dB) of the loudspeaker output.

Value space of the result returned:

*0..100*

Example:

```
xStatus Audio Volume
*s Audio Volume: 70
** end
```

## xStatus Audio VolumeHandsetUsb

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the volume level of the USB handset.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio VolumeHandsetUsb
*s 6
** end
```

## xStatus Audio VolumeHeadsetAnalog

*Applies to: DeskPro*

Requires user role: ADMIN, USER

Shows the volume level of the analog headset.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio VolumeHeadsetAnalog
*s 6
** end
```

## xStatus Audio VolumeHeadsetBluetooth

*Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the volume level of the Bluetooth headset.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio VolumeHeadsetBluetooth
*s Audio VolumeHeadsetBluetooth: 50
** end
```

## xStatus Audio VolumeHeadsetUsb

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the volume level of the USB headset.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio VolumeHeadsetUsb
*s 6
** end
```

## xStatus Audio VolumeInternal

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, USER

Shows the internal volume level.

Value space of the result returned:

*Integer*

Example:

```
xStatus Audio VolumeInternal
*s 6
** end
```

## xStatus Audio VolumeMute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the device volume is set to mute.

Value space of the result returned:

*Off/On*

Example:

```
xStatus Audio VolumeMute
*s Audio VolumeMute: Off
** end
```

## Bookings status

### xStatus Bookings Availability Status

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Indicates when and if a room is booked and for how long.

Value space of the result returned:

*BookedUntil/Free/FreeUntil*

**Free:** The room is not booked for the foreseeable future, and the Bookings Availability TimeStamp status is empty (" ").

**FreeUntil:** The room is free right now, but there is a later booking. The start of the booking is in the Bookings Availability TimeStamp status.

**BookedUntil:** The room is booked right now, and the current booking's ending is in the Bookings Availability TimeStamp status.

Example:

```
xStatus Bookings Availability Status
*s Bookings Availability Status: Free
** end
```

### xStatus Bookings Availability TimeStamp

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

A timestamp or an empty string set according to the room's current Bookings Availability Status.

Value space of the result returned:

*String*

Example:

```
xStatus Bookings Availability TimeStamp
*s Bookings Availability TimeStamp: ""
** end
```



## xStatus Bookings Current Id

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

The ID of the on going booking event, if any.

Value space of the result returned:

*String*

Example:

```
xStatus Bookings Current Id
*s Bookings Current Id: "123"
** end
```

## Call status

### xStatus Call [n] AnswerState

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Indicates if a call is answered, ignored or has been automatically answered by a device.

Value space of the result returned:

*Unanswered/Ignored/Autoanswered/Answered*

Example:

```
xStatus Call AnswerState
*s Call 5 AnswerState: Answered
** end
```

### xStatus Call [n] AttendedTransferFrom

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the CallId for the call the current call was transferred from.

Value space of the result returned:

*Integer*

Example:

```
xStatus Call 1 AttendedTransferFrom
*s Call 1 AttendedTransferFrom: 1234
** end
```

## xStatus Call [n] CallbackNumber

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the remote (far end) number or URI of an incoming or outgoing call, including the call protocol, for call back. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*String*

Example:

```
xStatus Call 27 CallbackNumber
*s Call 27 CallbackNumber: "h323:firstname.lastname@company.com"
** end
```

## xStatus Call [n] CallType

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the call type of the incoming or outgoing call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Video/Audio/AudioCanEscalate/ForwardAllCall/Unknown*

Example:

```
xStatus Call 27 CallType
*s Call 27 CallType: Video
** end
```

## xStatus Call [n] DeviceType

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows where the call is connected to.

Value space of the result returned:

*Endpoint/MCU*

**Endpoint:** It is a point-to-point call to another device.

**MCU:** The call is to a multipoint conferencing unit (MCU) in the network, or a MultiSite call hosted on a device.

Example:

```
xStatus Call DeviceType
*s Call 4 DeviceType: Endpoint
** end
```

## xStatus Call [n] Direction

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

States the direction of the call initiation. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Incoming/Outgoing*

Example:

```
xStatus Call 27 Direction
*s Call 27 Direction: Outgoing
** end
```

## xStatus Call [n] DisplayName

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the name of the remote (far end) participant in an incoming or outgoing call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*String*

Example:

```
xStatus Call 27 DisplayName
*s Call 27 DisplayName: "firstname.lastname@company.com"
** end
```

## xStatus Call [n] Duration

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the duration of a call (in seconds). You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Integer*

Example:

```
xStatus Call 27 Duration
*s Call 27 Duration: 2354
** end
```

## xStatus Call [n] Encryption Type

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the encryption type of the call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*None/Aes-128*

Example:

```
xStatus Call 27 Encryption Type
*s Call 27 Encryption Type: "None"
** end
```

## xStatus Call [n] FacilityServiceId

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Desk Board*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

When calling a facility service, the facility service id is shown. Otherwise the value 0 is returned.

Value space of the result returned:

*0..5*

Example:

```
xStatus Call FacilityServiceId
*s Call 3 FacilityServiceId: 1
** end
```

## xStatus Call [n] HoldReason

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the reason the current outgoing call was put on hold.

Value space of the result returned:

*Conference/Transfer/None*

**Conference:** On hold while the call is being merged into a conference.

**Transfer:** On hold while the call is being transferred.

**None:** All other instances.

Example:

```
xStatus Call 2 HoldReason
*s Call 2 HoldReason: None
** end
```

## xStatus Call [n] Ice

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

ICE is a feature that enables two sides of a call to send media (video and audio) directly between each other, if a direct network path has been found through ICE negotiation. This status reflects the result of that negotiation.

Value space of the result returned:

*Disabled/Passed/Failed*

**Disabled:** ICE is disabled.

**Passed:** A direct network path was found and is being used.

**Failed:** A direct network path was not found, and media will most likely flow through an intermediary component.

Example:

```
xStatus Call 2 Ice
*s Call 2 Ice: Passed
** end
```

## xStatus Call [n] PlacedOnHold

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the placed on hold status of the call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*True/False*

Example:

```
xStatus Call 27 PlacedOnHold
*s Call 27 PlacedOnHold: False
** end
```

## xStatus Call [n] Protocol

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the call protocol of the incoming or outgoing call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*H323/SIP/Spark/Unknown/WebRTC*

Example:

```
xStatus Call 27 Protocol
*s Call 27 Protocol: "SIP"
** end
```

## xStatus Call [n] ReceiveCallRate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the receive bandwidth in the call in kilobits per second (kbps). You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Integer*

Example:

```
xStatus Call 27 ReceiveCallRate
*s Call 27 ReceiveCallRate: 4000
** end
```

## xStatus Call [n] RemoteNumber

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the remote (far end) number or URI of an incoming or outgoing call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*String*

Example:

```
xStatus Call 27 RemoteNumber
*s Call 27 RemoteNumber: "5585232"
** end
```

## xStatus Call [n] Status

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the status of a call. You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Idle/Dialling/Ringing/Connecting/Connected/Disconnecting/OnHold/EarlyMedia/Preserved/RemotePreserved*

Example:

```
xStatus Call 27 Status
*s Call 27 Status: Connected
** end
```

## xStatus Call [n] TransmitCallRate

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

Shows the transmit bandwidth in the call in kilobits per second (kbps). You can run the command xStatus Call to find the call identity.

Value space of the result returned:

*Integer*

Example:

```
xStatus Call 27 TransmitCallRate
*s Call 27 TransmitCallRate: 768
** end
```

## Cameras status

### xStatus Cameras Background Image

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows which of a set of three pre-installed images is selected as the background image.

Value space of the result returned:

*Image1/Image2/Image3/Image4/Image5/Image6/Image7/User1/User2/User3*  
Image1 - Image7: Slots for pre-installed images.  
User1 - User3: Slots where an uploaded image can be installed.

Example:

```
xStatus Cameras Background Image
*s Cameras Background Image: Image3
** end
```

### xStatus Cameras Background Mode

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether any images or effects have been selected to mask the background of the camera view.

Value space of the result returned:

*Disabled/Blur/BlurMonochrome/DepthOfField/Hdmi/Monochrome/Image/UsbC*  
**Disabled:** There are no background images or effects displayed.  
**Blur:** The background is blurred.  
**BlurMonochrome:** combination of blur and monochrome (blurred without colors).  
**DepthOfField:** variant of blur with less blurring.  
**Hdmi:** HDMI input is providing a live background.  
**Monochrome:** Shows the image in grayscale.  
**Image:** An images is providing the background.  
**UsbC:** USB-C is providing a live background.

Example:

```
xStatus Cameras Background Mode
*s Cameras Background Mode: Image
** end
```

## xStatus Cameras Camera [n] Capabilities Options

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the camera capabilities (ptzf = pan, tilt, zoom, focus).

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 Capabilities Options
*s Camera 1 Capabilities Options: "ptzf"
** end
```

## xStatus Cameras Camera [n] Connected

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows if the camera is connected or not.

Value space of the result returned:

*True/False*

Example:

```
xStatus Cameras Camera 1 Connected
*s Camera 1 Connected: True
** end
```

## xStatus Cameras Camera [n] DetectedConnector

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the connector number the camera has detected it is connected to, or shows 0 if no connection is detected.

Value space of the result returned:

*Integer*

Example:

```
xStatus Cameras Camera 1 DetectedConnector
*s Cameras Camera 1 DetectedConnector: 1
** end
```

## xStatus Cameras Camera [n] Flip

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows if the image is flipped upside down.

Value space of the result returned:

*Off/On*

Example:

```
xStatus Cameras Camera 1 Flip
*s Camera 1 Flip: "Off"
** end
```

## xStatus Cameras Camera [n] Framerate

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the framerate of the camera.

Value space of the result returned:

*Integer*

The number of frames per second.

Example:

```
xStatus Cameras Camera Framerate
*s Cameras Camera 1 Framerate: 30
** end
```

## xStatus Cameras Camera [n] HardwareID

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the hardware identity of the camera.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 HardwareID
*s Camera 1 HardwareID: "50000000"
** end
```

## xStatus Cameras Camera [n] Lenses [n] Lens

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Returns the type of camera lens. A camera may have more than one lens, and different cameras have different lens types.

Value space of the result returned:

*Center/Default/Left/Right/Tele/Wide*

The lens type.

Example:

```
xStatus Cameras Camera 1 Lenses 1 Lens
*s Cameras Camera 1 Lenses 1 Lens: Wide
** end
```

## xStatus Cameras Camera [n] LightingConditions

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows how the camera perceives the lighting conditions in the room.

Value space of the result returned:

*Unknown/Good/Dark/Backlight*

**Unknown:** The camera is turned off or does not support this functionality.

**Good:** The lighting is at a good level.

**Dark:** The lighting is too low.

**Backlight:** There is a high level of backlight in the image.

Example:

```
xStatus Cameras Camera 1 LightingConditions
*s Camera 1 LightingConditions: Good
** end
```

## xStatus Cameras Camera [n] MacAddress

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the MAC (Media Access Control) address for the camera.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 MacAddress
*s Camera 1 MacAddress: ""
** end
```

## xStatus Cameras Camera [n] Manufacturer

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the manufacturer of the camera.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 Manufacturer
*s Camera 1 Manufacturer: "Cisco"
** end
```

## xStatus Cameras Camera [n] Model

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the camera model.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 Model
*s Camera 1 Model: "Quad Camera"
** end
```

### xStatus Cameras Camera [n] Position Focus

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the current focus position of the camera. The value range depends on camera type.

Value space of the result returned:

*0..65535*

Example:

```
xStatus Cameras Camera 1 Position Focus
*s Camera 1 Position Focus: 4597
** end
```

### xStatus Cameras Camera [n] Position Lens

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows which camera lens is currently being used. The value range depends on camera type.

Value space of the result returned:

*Center/Default/Left/Right/Tele/Wide*

Example:

```
xStatus Cameras Camera 1 Position Lens
*s Cameras Camera 1 Position Lens: Center
** end
```

### xStatus Cameras Camera [n] Position Pan

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the current pan (move left and right) position of the camera. The value range depends on camera type.

Value space of the result returned:

*-10000..10000*

Example:

```
xStatus Cameras Camera 1 Position Pan
*s Camera 1 Position Pan: 412
** end
```

### xStatus Cameras Camera [n] Position Roll

*Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the current rotation (roll) of the camera view. The observed image is rotated counterclockwise if the value is positive, and clockwise if the value is negative. The unit is 1/100 degree, that is 300 corresponds to 3 degrees.

Value space of the result returned:

*-300..300*

Example:

```
xStatus Cameras Camera 1 Position Roll
*s Camera 1 Position Roll: 20
** end
```

### xStatus Cameras Camera [n] Position Tilt

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the current tilt (move up and down) position of the camera. The value range depends on camera type.

Value space of the result returned:

*-2500..2500*

Example:

```
xStatus Cameras Camera 1 Position Tilt
*s Camera 1 Position Tilt: 106
** end
```

### xStatus Cameras Camera [n] Position Zoom

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the current zoom (zoom in and out) position of the camera. The value range depends on camera type.

Value space of the result returned:

*0..11800*

Example:

```
xStatus Cameras Camera 1 Position Zoom
*s Camera 1 Position Zoom: 828
** end
```



### xStatus Cameras Camera [n] SerialNumber

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the camera serial number.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 SerialNumber
*s Camera 1 SerialNumber: "B1AB26B00010"
** end
```

### xStatus Cameras Camera [n] SoftwareID

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the software identity of the camera.

Value space of the result returned:

*String*

Example:

```
xStatus Cameras Camera 1 SoftwareID
*s Camera 1 SoftwareID: "ce11.1.2.4.b7224552262"
** end
```

### xStatus Cameras PresenterTrack Availability

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether presenter tracking is available.

Value space of the result returned:

*Off/Unavailable/Available*

**Off:** Presenter tracking is disabled.

**Unavailable:** Presenter tracking is not configured correctly, camera is disconnected, or a MultiSite or Multistream call is in progress.

**Available:** Presenter tracking is available.

Example:

```
xStatus Cameras PresenterTrack Availability
*s Cameras PresenterTrack Availability: Available
** end
```

### xStatus Cameras PresenterTrack PresenterDetected

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether presenter tracking is currently in use.

Value space of the result returned:

*False/True*

Example:

```
xStatus Cameras PresenterTrack PresenterDetected
*s Cameras PresenterTrack PresenterDetected: False
** end
```

## xStatus Cameras PresenterTrack Status

*Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Returns the current status for presenter tracking.

Value space of the result returned:

*Off/Follow/Diagnostic/Background/Setup/Persistent*

**Off:** Not running.

**Follow:** Tracking is in progress and working normally

**Diagnostics:** In diagnostics mode. This mode is used for troubleshooting.

**Background:** The algorithm is running when the PresenterTrack camera is not selected as the main camera. This is used in the Briefing room setup to enable automatic switching between the different cameras.

**Setup:** Web wizard for setting up SpeakerTrack camera is active.

**Persistent:** The camera is active and selected as main camera.

Example:

```
xStatus Cameras PresenterTrack Status
*s Cameras PresenterTrack Status: Off
** end
```

## xStatus Cameras SpeakerTrack ActiveConnector

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the number of the connector that a camera with speaker tracking support is connected to. If it is a SpeakerTrack 60 camera, it is the connector number for the camera that is currently chosen by the SpeakerTrack algorithm.

This status is not applicable for Room Kit Mini, Desk series, and Board series devices.

Value space of the result returned:

*Integer*

Example:

```
xStatus Cameras SpeakerTrack ActiveConnector
*s Cameras SpeakerTrack ActiveConnector: 1
** end
```

## xStatus Cameras SpeakerTrack Availability

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

The product may support speaker tracking (which also includes best overview), or only the best overview feature. This status shows whether or not that feature is available.

Value space of the result returned:

*Off/Unavailable/Available*

**Off:** Speaker tracking / best overview is turned off with the command xConfiguration Cameras SpeakerTrack Mode: Off

**Unavailable:** Hardware for speaker tracking / best overview is not found.

**Available:** Hardware for speaker tracking / best overview is found, and it is possible to turn the feature on or off from the user interface.

Example:

```
xStatus Cameras SpeakerTrack Availability
*s Cameras SpeakerTrack Availability: Available
** end
```

## xStatus Cameras SpeakerTrack BackgroundMode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Reports whether the speaker track / best overview algorithm currently runs in the background.

Value space of the result returned:

*Active/Inactive*

**Active:** SpeakerTrack runs in the background.

**Inactive:** SpeakerTrack doesn't run in the background.

Example:

```
xStatus Cameras SpeakerTrack BackgroundMode
*s Cameras SpeakerTrack BackgroundMode: Inactive
** end
```

## xStatus Cameras SpeakerTrack Frames Availability

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Reports whether the Frames camera framing mode is available on the device.

Value space of the result returned:

*Available/Off/Unavailable*

**Available:** The camera supports Frames, and the feature is not disabled.

**Unavailable:** The camera doesn't support Frames.

**Off:** The camera supports Frames, but the feature is disabled (Cameras SpeakerTrack Frames Mode is set to Off).

Example:

```
xStatus Cameras SpeakerTrack Frames Availability
*s Cameras SpeakerTrack Frames Availability: Available
** end
```

## xStatus Cameras SpeakerTrack Frames Status

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Reports whether the currently selected camera framing mode is Frames.

Value space of the result returned:

*Active/Inactive*

**Active:** Frames is in use.

**Inactive:** Frames is not in use.

Example:

```
xStatus Cameras SpeakerTrack Frames Status
*s Cameras SpeakerTrack Frames Status: Inactive
** end
```

## xStatus Cameras SpeakerTrack State

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows in what state the speaker tracking feature of the camera is. Speaker tracking uses automatic camera framing to select the best camera view based on where people are in the room. The camera uses an audio tracking technique that finds and captures a close-up of the active speaker.

Value space of the result returned:

*BestOverview/Closeup/Frames/Off/Whiteboard*

**BestOverview:** The camera adjusts automatically so that the user is always perfectly framed in the video even when they move around their workspace.

**Closeup:** The camera is actively tracking and zooming in on the current speaker. A closeup most often don't include all the persons in the room.

**Frames:** The camera zooms and shows people individually or in smaller groups. These individual and group frames are further composed into one outgoing video stream. In this stream, the excess background is removed, and the people are shown closer to each other, uniform in size, and at the same eye level.

**Off:** Speaker tracking is disabled.

**Whiteboard:** The camera is focused on capturing the whiteboard, rather than focusing on individual speakers.

Example:

```
xStatus Cameras SpeakerTrack State
*s Cameras SpeakerTrack State: BestOverview
** end
```

## xStatus Cameras SpeakerTrack Status

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

The product may support speaker tracking (which also includes best overview), or only the best overview feature. This status shows whether or not that feature is active.

Value space of the result returned:

*Active/Inactive*

**Active:** Speaker tracking / best overview is active.

**Inactive:** Speaker tracking / best overview is inactive.

Example:

```
xStatus Cameras SpeakerTrack Status
*s Cameras SpeakerTrack Status: Active
** end
```

### xStatus Cameras SpeakerTrack ViewLimits Pan

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Returns the pan value for the limited maximum camera view that is set by the Cameras SpeakerTrack ViewLimits StorePosition command.

Value space of the result returned:

*Integer*

Example:

```
xStatus Cameras SpeakerTrack ViewLimits Pan
*s Cameras SpeakerTrack ViewLimits Pan: -88
** end
```

### xStatus Cameras SpeakerTrack ViewLimits Status

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows if a limited maximum camera view is used for speaker tracking (see the Cameras SpeakerTrack ViewLimits StorePosition command).

Value space of the result returned:

*Active/Inactive*

**Active:** A limited maximum view is being used.

**Inactive:** A limited maximum view is not being used, so the maximum view is the fully zoomed-out camera view.

Example:

```
xStatus Cameras SpeakerTrack ViewLimits Status
*s Cameras SpeakerTrack ViewLimits Status: Active
** end
```

### xStatus Cameras SpeakerTrack ViewLimits Tilt

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Returns the tilt value for the limited maximum camera view that is set by the Cameras SpeakerTrack ViewLimits StorePosition command.

Value space of the result returned:

*Integer*

Example:

```
xStatus Cameras SpeakerTrack ViewLimits Tilt
*s Cameras SpeakerTrack ViewLimits Tilt: -425
** end
```

### xStatus Cameras SpeakerTrack ViewLimits Zoom

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Returns the zoom value for the limited maximum camera view that is set by the Cameras SpeakerTrack ViewLimits StorePosition command.

Value space of the result returned:

*Integer*

Example:

```
xStatus Cameras SpeakerTrack ViewLimits Zoom
*s Cameras SpeakerTrack ViewLimits Zoom: 5121
** end
```

## Capabilities status

### xStatus Capabilities Conference MaxActiveCalls

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the maximum number of simultaneous active calls. Calls that are set on hold/transfer are not counted as active.

Value space of the result returned:

*0..5*

Example:

```
xStatus Capabilities Conference MaxNumberOfActiveCalls
*s Capabilities Conference MaxNumberOfActiveCalls: 3
** end
```

### xStatus Capabilities Conference MaxAudioCalls

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the maximum number of simultaneous audio calls that is supported.

Value space of the result returned:

*Integer*

Example:

```
xStatus Capabilities Conference MaxAudioCalls
*s Capabilities Conference MaxAudioCalls: 3
** end
```

### xStatus Capabilities Conference MaxCalls

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the maximum number of simultaneous calls.

Value space of the result returned:

*0..5*

Example:

```
xStatus Capabilities Conference MaxCalls
*s Capabilities Conference MaxCalls: 3
** end
```

### xStatus Capabilities Conference MaxVideoCalls

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the maximum number of simultaneous video calls that is supported.

Value space of the result returned:

*Integer*

Example:

```
xStatus Capabilities Conference MaxVideoCalls
*s Capabilities Conference MaxVideoCalls: 3
** end
```

## Conference status

### xStatus Conference ActiveSpeaker CallId

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the CallId of the current active speaker.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference ActiveSpeaker CallId
*s Conference ActiveSpeaker CallId: 3
** end
```

### xStatus Conference Call [n] AuthenticationRequest

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

This status is only relevant for Webex registered devices. When this status has another value than "None" the device is waiting for an authentication response from the user. Use the Conference Call AuthenticationResponse command to give the response.

Value space of the result returned:

*AnyHostPinOrGuestPin/GuestPin/None/HostPinOrGuest/HostPinOrGuestPin/PanelistPin/PanelistPinOrAttendee/PanelistPinOrAttendeePin*

**AnyHostPinOrGuestPin:** Participants are not asked if they are a host or guest; the role is not required. They must provide either a host PIN or guest PIN.

**GuestPin:** Participants must provide a guest PIN.

**None:** The device is not waiting for an authentication response (no authentication request).

**HostPinOrGuest:** Participants are asked whether they want to join as a host or guest. They must provide the corresponding host PIN, or join as a guest without PIN.

**HostPinOrGuestPin:** Participants are asked whether they want to join as a host or guest. They must provide the corresponding host PIN or guest PIN.

**PanelistPin:** Participants must provide a panelist PIN for joining a Webex Webinar as panelist. Joining as attendee is not supported for this webinar.

**PanelistPinOrAttendee:** Participants are asked whether they want to join a Webex Webinar as panelist or attendee. They must provide the corresponding panelist PIN or join as attendee without PIN.

**PanelistPinOrAttendeePin:** Participants are asked whether they want to join a Webex Webinar as panelist or attendee. They must provide the corresponding panelist PIN or attendee PIN.

Example:

```
xStatus Conference Call 2 AuthenticationRequest
*s Conference Call 2 AuthenticationRequest: None
** end
```

## xStatus Conference Call [n] BookingId

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the booking ID of a conference (if assigned). The booking ID can be used for easy identification of a call or conference.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 BookingId
*s Conference Call 2 BookingId: "MyConference"
** end
```

## xStatus Conference Call [n] Capabilities AdmitFromLobby

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you can admit participants who are currently waiting in the meeting lobby.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can admit participants who are currently waiting in the meeting lobby.

**Unavailable:** You cannot admit participants who are currently waiting in the meeting lobby.

Example:

```
xStatus Conference Call 1 Capabilities AdmitFromLobby
** end
```

## xStatus Conference Call [n] Capabilities Caption

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable on this release

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus Conference Call 1 Capabilities Caption
*s Conference Call 1 Capabilities Caption: Unavailable
** end
```

## xStatus Conference Call [n] Capabilities DisableReactions

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you can disable reactions within the meeting.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can disable reactions within the meeting.

**Unavailable:** You cannot disable reactions within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities DisableReactions
** end
```

## xStatus Conference Call [n] Capabilities DTMF

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only. Shows if you can send DTMF tones within the meeting.

Value space of the result returned:

*False/True*

**Available:** You can send DTMF tones within the meeting.

**Unavailable:** You cannot send DTMF tones within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities DTMF
*s Conference Call 1 Capabilities DTMF: Unavailable
** end>
```

## xStatus Conference Call [n] Capabilities EnableReactions

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can enable reactions within the meeting.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can enable reactions within the meeting.

**Unavailable:** You cannot enable reactions within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities EnableReactions
** end
```

## xStatus Conference Call [n] Capabilities EndMeeting

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can end the whole meeting.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can end the whole meeting.

**Unavailable:** You cannot end the whole meeting.

Example:

```
xStatus Conference Call 1 Capabilities EndMeeting
** end
```

## xStatus Conference Call [n] Capabilities EmergencyCallCapability

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board*

Requires user role: ADMIN, USER

Shows whether or not the EmergencyCallCapability is enabled. If it is enabled, during an emergency call, the buttons for adding participants or ending a call will be hidden.

Value space of the result returned:

*False/True*

Example:

```
xStatus Conference Call 1 Capabilities EmergencyCallCapability
*s Conference Call 1 Capabilities EmergencyCallCapability: False
** end
```

## xStatus Conference Call [n] Capabilities HardMute

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can enable 'hard mute' within the meeting.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

**Available:** You can enable 'hard mute' within the meeting.

**Unavailable:** You cannot enable 'hard mute' within the meeting.

**Not Applicable:** Does not apply to this meeting (such as on-premises SIP call).

Example:

```
xStatus Conference Call 1 Capabilities HardMute
** end
```

## xStatus Conference Call [n] Capabilities FarendMessage Mode

*Applies to: All products*

Not applicable in this release.



### xStatus Conference Call [n] Capabilities FECC Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether or not you have permission to control the input sources at a far end site.

Value space of the result returned:

*On/Off*

**On:** Far end input source control is permitted.

**Off:** Far end input source control is not permitted.

Example:

```
xStatus Conference Call 2 Capabilities FECC Mode
*s Conference Call 2 Capabilities FECC Mode: On
** end
```

### xStatus Conference Call [n] Capabilities FECC NumberOfPresets

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the number of presets available for the input sources at a far end site.

Value space of the result returned:

*1..15*

Example:

```
xStatus Conference Call 2 Capabilities FECC NumberOfPresets
*s Conference Call 2 Capabilities FECC NumberOfPresets: 15
** end
```

### xStatus Conference Call [n] Capabilities FECC NumberOfSources

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the number of input sources that can be connected at a far end site.

Value space of the result returned:

*1..5*

Example:

```
xStatus Conference Call 2 Capabilities FECC NumberOfSources
*s Conference Call 2 Capabilities FECC NumberOfSources: 5
** end
```

### xStatus Conference Call [n] Capabilities FECC Source [n] Name

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the name of an input source that can be connected at a far end site.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 Capabilities FECC Source 1 Name
*s Conference Call 2 Capabilities FECC Source 1 Name: "Main camera"
** end
```

### xStatus Conference Call [n] Capabilities FECC Source [n] Options

*Applies to: All products*

Requires user role: ADMIN, USER

Shows available options for an input source that can be connected at a far end site (for a camera: p=pan; t=tilt; z=zoom; f=focus).

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 Capabilities FECC Source 1 Options
*s Conference Call 2 Capabilities FECC Source 1 Options: "ptzf"
** end
```

### xStatus Conference Call [n] Capabilities FECC Source [n] SourceId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the ID of an input source that can be connected at a far end site.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Call 2 Capabilities FECC Source 1 SourceId
*s Conference Call 2 Capabilities FECC Source 1 SourceId: 6
** end
```

### xStatus Conference Call [n] Capabilities Hold

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates whether the far-end site can be placed on hold or not.

Value space of the result returned:

*True/False*

Example:

```
xStatus Conference Call 2 Capabilities Hold
*s Conference Call 2 Capabilities Hold: True
** end
```

### xStatus Conference Call [n] Capabilities IsModerator

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you have the moderator role within the meeting.

Value space of the result returned:

*False/True*

**True:** You have the moderator role within the meeting.

**False:** You do not have the moderator role within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities IsModerator
** end
```

### xStatus Conference Call [n] Capabilities IxChannel Status

*Applies to: All products*

Not applicable in this release.

### xStatus Conference Call [n] Capabilities LockControl

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you can lock the meeting.

Value space of the result returned:

*Lock/Unavailable/Unlock*

**Lock:** You can lock the meeting.

**Unlock:** You cannot lock the meeting.

**Unavailable:** This capability does not apply to this meeting.

Example:

```
xStatus Conference Call 1 Capabilities LockControl
** end
```

### xStatus Conference Call [n] Capabilities LowerAllHands

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you can lower all participants hands within the meeting.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

**Enabled:** You can lower all participants hands within the meeting.

**Disabled:** You cannot lower all participants hands within the meeting.

**NotApplicable:** This capability does not apply to this meeting.

Example:

```
xStatus Conference Call 1 Capabilities LowerAllHands
** end
```

### xStatus Conference Call [n] Capabilities LowerParticipantsHand

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can lower any participant hand within the meeting.

Value space of the result returned:

*Available/Unavailable*

**Enabled:** You can lower any participant hand within the meeting.

**Disabled:** You cannot lower any participant hand within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities LowerParticipantsHand
** end
```

### xStatus Conference Call [n] Capabilities MeetingAssistant Start

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this version.

Value space of the result returned:

*Available/Unavailable*

### xStatus Conference Call [n] Capabilities MeetingAssistant Stop

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this version.

Value space of the result returned:

*Available/Unavailable*

### xStatus Conference Call [n] Capabilities MoveToLobby

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can move a meeting participant to the lobby. For more information, refer to the Conference Participant MoveToLobby command.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can move a meeting participant to the lobby.

**Unavailable:** You cannot move a meeting participant to the lobby.

Example:

```
xStatus Conference Call 2 Capabilities MoveToLobby
*s Conference Call 2 Capabilities MoveToLobby: Unavailable
** end
```

### xStatus Conference Call [n] Capabilities MuteAll

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can mute all participants within the meeting.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

**Enabled:** You can mute all participants within the meeting.

**Disabled:** You cannot mute all participants within the meeting.

**NotApplicable:** This capability does not apply to this meeting (such as on-premises SIP call).

Example:

```
xStatus Conference Call 1 Capabilities MuteAll
** end
```

### xStatus Conference Call [n] Capabilities MuteOnEntry

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can mute all participants upon joining the meeting.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

**Enabled:** You can mute all participants upon joining the meeting.

**Disabled:** You cannot mute all participants upon joining the meeting.

**NotApplicable:** This capability does not apply to this meeting (such as on-premises SIP call).

Example:

```
xStatus Conference Call 1 Capabilities MuteOnEntry
** end
```

### xStatus Conference Call [n] Capabilities ParticipantAdd

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows if you can add a participant to this call. For more information, refer to the Conference Participant Add command.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can add a participant to this call.

**Unavailable:** You cannot add a participant to this call.

Example:

```
xStatus Conference Call 2 Capabilities ParticipantAdd
*s Conference Call 2 Capabilities ParticipantAdd: Available
** end
```

### xStatus Conference Call [n] Capabilities ParticipantDisconnect

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can disconnect participants on this call.

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus Conference Call 2 Capabilities ParticipantDisconnect
*s Conference Call 2 Capabilities ParticipantDisconnect: Available
** end
```

### xStatus Conference Call [n] Capabilities ParticipantList

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can see the participant list on this call or if the list is in the process of syncing.

Value space of the result returned:

*Available/Syncing/Unavailable*

Example:

```
xStatus Conference Call 2 Capabilities ParticipantList
*s Conference Call 2 Capabilities ParticipantList: Available
** end
```

### xStatus Conference Call [n] Capabilities ParticipantMute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can change the mute state on the server for another device (meeting participant). If a device gets muted on the server, it will automatically mute itself. If a device gets unmuted on the server, it will receive a notification that "You are requested to unmute your audio". For privacy reasons, a device will always stay muted until locally unmuted.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can change another device's mute state on the server.

**Unavailable:** You cannot change another device's mute state on the server.

Example:

```
xStatus Conference Call 2 Capabilities ParticipantMute
*s Conference Call 2 Capabilities ParticipantMute: Available
** end
```

## xStatus Conference Call [n] Capabilities ParticipantRequestUnmute

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if an individual participant can request to unmute themselves.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

- Enabled: Individual participants in the meeting can request to unmute themselves.
- Disabled:** Individual participants in the meeting cannot request to unmute themselves.
- NotApplicable:** This capability does not apply to this meeting.

Example:

```
xStatus Conference Call 1 Capabilities ParticipantRequestUnmute
** end
```

## xStatus Conference Call [n] Capabilities Presentation

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the presentation capabilities for other participants in the conference.

Value space of the result returned:

*True/False*

Example:

```
xStatus Conference Call 2 Capabilities Presentation
*s Conference Call 2 Capabilities Presentation: True
** end
```

## xStatus Conference Call [n] Capabilities RaiseHand

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can raise your hand during the meeting.

Value space of the result returned:

*Available/Unavailable*

- Available: You can raise your hand during the meeting.
- Unavailable:** You cannot raise your hand during the meeting.

Example:

```
xStatus Conference Call 1 Capabilities RaiseHand
** end
```

## xStatus Conference Call [n] Capabilities Reactions

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you can send reactions within the meeting.

Value space of the result returned:

*Available/Unavailable*

- Available: You can send reactions within the meeting.
- Unavailable:** You cannot send reactions within the meeting.

Example:

```
xStatus Conference Call 1 Capabilities Reactions
** end
```

## xStatus Conference Call [n] Capabilities Recording Pause

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Available/Unavailable*

### xStatus Conference Call [n] Capabilities Recording Resume

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Available/Unavailable*

### xStatus Conference Call [n] Capabilities Recording Start

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can start a recording on this call.

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus Conference Call 2 Capabilities Recording Start
*s Conference Call 2 Capabilities Recording Start: Unavailable
** end
```

### xStatus Conference Call [n] Capabilities Recording Stop

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Available/Unavailable*

### xStatus Conference Call [n] Capabilities SelfMute

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if you can change your own mute state on the server. This status is only relevant for meetings hosted by CMS.

Value space of the result returned:

*Available/Unavailable*

**Available:** You can change your mute state on the server.

**Unavailable:** You cannot change your mute state on the server.

Example:

```
xStatus Conference Call 2 Capabilities SelfMute
*s Conference Call 2 Capabilities SelfMute: Unavailable
** end
```

### xStatus Conference Call [n] Capabilities TransferHostAndLeave

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus Conference Call 1 Capabilities TransferHostAndLeave
** end
```

### xStatus Conference Call [n] Capabilities UnmuteAll

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you can unmute all participants within the meeting.

Value space of the result returned:

*Disabled/Enabled/NotApplicable*

**Available:** You can unmute all participants within the meeting. ou remove any previously applied hard mute. It will not actually unmute.

**Unavailable:** You cannot unmute all participants within the meeting.

**NotApplicable:** This capability does not apply to this meeting (such as on-premises SIP call).

Example:

```
xStatus Conference Call 1 Capabilities UnmuteAll
** end
```

### xStatus Conference Call [n] EventCenter Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the Practice Session mode is currently in use on this call. This status is only available for cloud registered devices.

Value space of the result returned:

*Normal/PracticeSession*

Example:

```
xStatus Conference Call 2 EventCenter Mode
*s Conference Call 2 EventCenter Mode: Normal
** end
```

### xStatus Conference Call [n] HardMuted

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.  
Shows if you are hard-muted within the meeting.

Value space of the result returned:

*False/True*

**True:** You you are hard-muted within the meeting.

**False:** You you are not hard-muted within the meeting.

Example:

```
xStatus Conference Call 1 HardMuted
** end
```

### xStatus Conference Call [n] Locked

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*Off/On*

### xStatus Conference Call [n] Manufacturer

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the manufacturer of the device at a far end site.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 Manufacturer
*s Conference Call 2 Manufacturer: "Cisco"
** end
```

### xStatus Conference Call [n] MeetingAssistantEnabled

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this version.

Value space of the result returned:

*False/True*

### xStatus Conference Call [n] MeetingPlatform

*Applies to: All products*

Requires user role: ADMIN, USER

This status returns the MeetingPlatform that is given in the Bookings Put command, that is, the service that hosts the meeting.

Value space of the result returned:

*GoogleMeet/MSTeams/Unknown/Webex/Zoom*

Example:

```
xStatus Conference Call 2 MeetingPlatform
*s Conference Call 2 MeetingPlatform: Webex
** end
```

### xStatus Conference Call [n] Meeting

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the device is in a Webex meeting.

Value space of the result returned:

*False/True*

**False:** The device is not in a Webex meeting.

**True:** The device is in a Webex meeting.

Example:

```
xStatus Conference Call Meeting
*s Conference Call 8 Meeting: True
** end
```

## xStatus Conference Call [n] MicrophonesMuted

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the audio mute status for other participants in the conference.

Value space of the result returned:

*True/False*

Example:

```
xStatus Conference Call 2 MicrophonesMuted
*s Conference Call 2 MicrophonesMuted: True
** end
```

## xStatus Conference Call [n] ProximityCall

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether or not the device is being used in a paired call, for example from the Proximity app or a Webex app.

Value space of the result returned:

*False/True*

**False:** The device is not in a paired call using one of the apps.

**True:** The device is in a paired call using one of the apps.

Example:

```
xStatus Conference Call 8 ProximityCall
*s Conference Call 8 ProximityCall: True
** end
```

## xStatus Conference Call [n] RaiseHand

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to Webex meetings and Webex Optimized calls only.

Shows if you have currently raised your hand.

Value space of the result returned:

*Inactive/Lowered/Raised*

**Raised:** You have currently raised your hand.

**Lowered:** You you have currently lowered your hand.

**Inactive:** This status does not apply to this meeting.

Example:

```
xStatus Conference Call 1 RaiseHand
** end
```

## xStatus Conference Call [n] Recording

*Applies to: All products*

Requires user role: ADMIN, USER

Show if the call is being recorded.

Value space of the result returned:

*None/Recording/Paused*

**None:** Recording is not available.

**Recording:** The recording is ongoing.

**Paused:** The recording is paused.

Example:

```
xStatus Conference Call 2 Recording
*s Conference Call 2 Recording: None
** end
```



## xStatus Conference Call [n] SimultaneousInterpretation Languages [n] LanguageCode

*Applies to: All products*

Requires user role: ADMIN, USER

Simultaneous interpretation allows Webex meeting participants to listen to the meeting in their preferred language.

This status reports the language codes of the available languages.

Refer to the Conference SimultaneousInterpretation Select Language command for more information.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Call 1 SimultaneousInterpretation Languages LanguageCode
*s Conference Call 1 SimultaneousInterpretation Languages 1 LanguageCode: 24
*s Conference Call 1 SimultaneousInterpretation Languages 2 LanguageCode: 20
*s Conference Call 1 SimultaneousInterpretation Languages 3 LanguageCode: 28
*s Conference Call 1 SimultaneousInterpretation Languages 4 LanguageCode: 89
** end
```

## xStatus Conference Call [n] SimultaneousInterpretation Languages [n] LanguageName

*Applies to: All products*

Requires user role: ADMIN, USER

Simultaneous interpretation allows Webex meeting participants to listen to the meeting in their preferred language.

This status reports the name of the available languages.

Refer to the Conference SimultaneousInterpretation Select Language command for more information.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 1 SimultaneousInterpretation Languages 1
LanguageName
*s Conference Call 1 SimultaneousInterpretation Languages 1 LanguageName:
"fr"
*s Conference Call 1 SimultaneousInterpretation Languages 2 LanguageName:
"en"
*s Conference Call 1 SimultaneousInterpretation Languages 3 LanguageName:
"de"
*s Conference Call 1 SimultaneousInterpretation Languages 4 LanguageName:
"es"
** end
```

## xStatus Conference Call [n] SimultaneousInterpretation MixerLevel

*Applies to: All products*

Requires user role: ADMIN, USER

If the host has enabled simultaneous interpretation for a Webex meeting, audio from the interpreter is mixed with the audio from the original presenter. The users can adjust the balance between the two audio feeds as they see fit.

This status returns a number between 0 and 100. Some examples: 100 means that you only hear the interpreter, 0 means that you only hear the original presenter. 80 means that the mix is 80% interpreter and 20% original presenter, that is, you will hear the original presenter in the background.

Simultaneous interpretation is not supported by devices that are registered to an on-premises service without being linked to Webex Edge for Devices.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Call 8 SimultaneousInterpretation MixerLevel
*s Cameras Call 8 SimultaneousInterpretation MixerLevel: 80
** end
```

## xStatus Conference Call [n] SimultaneousInterpretation SelectedLanguage

*Applies to: All products*

Requires user role: ADMIN, USER

If the host has enabled simultaneous interpretation for a Webex meeting, the users can select their preferred language from the device's user interface. This status returns the selected language, identified by a unique language id.

Simultaneous interpretation is not supported by devices that are registered to an on-premises service without being linked to Webex Edge for Devices.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Call 8 SimultaneousInterpretation SelectedLanguage
*s Cameras Call 8 SimultaneousInterpretation SelectedLanguage: 24
** end
```

## xStatus Conference Call [n] SessionType

*Applies to: All products*

Requires user role: ADMIN, USER

Provides information about the current session.

Value space of the result returned:

*Call/InstantMeeting/Share*

**Call:** The device is in a standard call.

**InstantMeeting:** The device is in an instant meeting.

**Share:** Someone is sharing content wirelessly to the device from a Webex app when the device is not in a call.

Example:

```
xStatus Conference Call SessionType
*s Conference Call 10 SessionType: Call
** end
```

## xStatus Conference Call [n] Sip SessionId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the SIP session identifier, which is a CUCM identifier used to identify a specific call leg in a meeting.

Value space of the result returned:

*String*

The SIP session identifier.

Example:

```
xStatus Conference Call 2 Sip SessionId
*s Conference Call 2 Sip SessionId: "8833d0863ac15b0083ce5aa417eb6609;remote=b3a9603e7aef6f2e6a818c815307c4f1"
** end
```

## xStatus Conference Call [n] SoftwareID

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the ID of the software running on the device at a far end site.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 SoftwareID
*s Conference Call 2 SoftwareID: "CE8"
** end
```

## xStatus Conference Call [n] Streamed

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the conference is being live streamed.

Value space of the result returned:

*False/True*

Example:

```
xStatus Conference Call 2 Streamed
*s Conference Call 2 Streamed: False
** end
```

## xStatus Conference Call [n] Transcoded

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the call is being transcoded. If the call is transcoded for you, this will report True.

Value space of the result returned:

*False/True*

Example:

```
xStatus Conference Call 2 Transcoded
*s Conference Call 2 Transcoded: False
** end
```

## xStatus Conference Call [n] Webex MeetingInviteLink

*Applies to: All products*

Requires user role: ADMIN, USER

If supported by the current Webex meeting, this status returns the invite link.

Value space of the result returned:

*String*

Example:

```
xStatus Conference Call 2 Webex MeetingInviteLink
*s Conference Call 2 Webex MeetingInviteLink: "https://cisco.webex.com/..."
** end
```

## xStatus Conference DoNotDisturb

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether DoNotDisturb mode is switched on or not.

Value space of the result returned:

*Active/Inactive*

Example:

```
xStatus Conference DoNotDisturb
*s Conference DoNotDisturb: Inactive
** end
```

## xStatus Conference EndToEndEncryption Availability

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates if the device can join an End-to-End Encrypted (E2EE) meeting.

The cloud API calls it so that a paired app knows whether it can use the device to join.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*Available/Unavailable*

**Available:** The device is able to join an E2EE meeting.

**Unavailable:** The device is not able to join an E2EE meeting.

Example:

```
xStatus Conference EndToEndEncryption Availability
*s Conference EndToEndEncryption Availability: Available
** end
```

## xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Fingerprint

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the fingerprint for the certificate. This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Fingerprint
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Fingerprint: "562c3c33d96eafd8ab2d08d278ad45783e3234ea"
** end
```

## xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] NotAfter

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the date after which the certificate is no longer valid.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 NotAfter
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 NotAfter: "2021-06-13T05:53:08.000000000+0000"
** end
```

## xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] NotBefore

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the date when the certificate becomes valid.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 NotBefore
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 NotBefore: "2021-03-15T05:53:08.000000000+0000"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] PrimaryName

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the name used to display and identify the certificate. This may come from different places, depending on the type of certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 PrimaryName
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 PrimaryName: "example.com"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] PublicKeyAlgorithm

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the public key algorithm for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 PublicKeyAlgorithm
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 PublicKeyAlgorithm: "ECDSA P256 SHA-256"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] SerialNumber

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the serial number for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 SerialNumber
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 SerialNumber: "033CAF1B5B63CE4A72DD653949CF089FF589"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] SignatureAlgorithm

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the signature algorithm for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 SignatureAlgorithm
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 SignatureAlgorithm: "RSA SHA-256"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Subject [n] Name

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a list of subjects for the certificate (for example, email address and domain name). This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Subject 1 Name
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Subject 1 Name: "example.com"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain Certificate [n] Validity

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a validity status for the certificate (for example, valid, parse error, unknown issuer, invalid signature, expired, or unknown error). This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Validity
*s Conference EndToEndEncryption ExternalIdentity CertificateChain
Certificate 1 Validity: "Valid"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity Identity

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the identity of the device as read from the externally-issued certificate's Common Name.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity Identity
*s Conference EndToEndEncryption ExternalIdentity Identity: "example.com"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the device's identity (for example, valid, error, or unknown error).

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity Status
*s Conference EndToEndEncryption ExternalIdentity Status: "Valid"
** end
```

### xStatus Conference EndToEndEncryption ExternalIdentity Verification

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates if the device has a valid externally-issued certificate (for example, external or none).

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption ExternalIdentity Verification
*s Conference EndToEndEncryption ExternalIdentity Verification: "External"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Fingerprint

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the fingerprint for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Fingerprint
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Fingerprint: "cdc421244e596a929812db6ddab3a139eb148ac7"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotAfter

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the date after which the certificate is no longer valid.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 NotAfter
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 NotAfter: "2021-10-21T06:24:17.000000000+0000"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotBefore

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the date when the certificate becomes valid.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 NotBefore
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 NotBefore: "2021-10-14T06:23:17.000000000+0000"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PrimaryName

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the name used to display and identify the certificate. This may come from different places, depending on the type of certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 PrimaryName
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 PrimaryName: "cisco.com"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PublicKeyAlgorithm

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the public key algorithm for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 PublicKeyAlgorithm
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 PublicKeyAlgorithm: "ECDSA P256 SHA-256"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SerialNumber

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the serial number for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 SerialNumber
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 SerialNumber: "018EC98BFBD03162E3"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SignatureAlgorithm

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the public key algorithm for the certificate.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 SignatureAlgorithm
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 SignatureAlgorithm: "ECDSA P256 SHA-256"
** end
```



### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Subject [n] Name

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a list of subjects for the certificate (for example, email address and domain name). This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Subject 1 Name
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Subject 1 Name: "machine: 3a616c16-bb51-4b25-9113-c521b821d566"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Validity

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a validity status for the certificate (for example, valid, parse error, unknown issuer, invalid signature, expired, or unknown error).

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Validity
*s Conference EndToEndEncryption InternalIdentity CertificateChain
Certificate 1 Validity: "Valid"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity Identity

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the identity of the device as read from the Webex-issued certificate's Common Name.

Contains a domain name if the organization has a domain; otherwise is empty.

If the device is in an organization that has multiple domains, this is the value from the PreferredDomain.

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity Identity
*s Conference EndToEndEncryption InternalIdentity Identity: "cisco.com"
** end
```

### xStatus Conference EndToEndEncryption InternalIdentity Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the device's identity (for example, valid, error, or unknown error).

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity Status
*s Conference EndToEndEncryption InternalIdentity Status: "Valid"
** end
```

## xStatus Conference EndToEndEncryption InternalIdentity Verification

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates if the device has a valid certificate issued by the Webex CA (for example, Webex verified or Webex unverified).

This is only available on devices registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus Conference EndToEndEncryption InternalIdentity Verification
*s Conference EndToEndEncryption InternalIdentity Verification:
"WebexVerified"
** end
```

## xStatus Conference HideNonVideo Active

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Show whether or not hide participants whose video is off during meetings, is enabled.

Value space of the result returned:

*False/True*

**False:** The hide non-video participants feature is currently not enabled.

**True:** The hide non-video participants feature is currently enabled.

Example:

```
xStatus Conference HideNonVideo Active
*s Conference HideNonVideo Active: False
** end
```

## xStatus Conference HideNonVideo Available

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Show whether hide participants whose video is off during meetings is available or not.

Value space of the result returned:

*False/True*

**False:** The hide non-video participants feature is not available.

**True:** The hide non-video participants feature is available.

Example:

```
xStatus Conference HideNonVideo Available
*s Conference HideNonVideo Available: True
** end
```

## xStatus Conference Line [n] Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates whether the device is configured as private or shared line on CUCM.

Value space of the result returned:

*Shared/Private*

Example:

```
xStatus Conference Line Mode
*s Conference Line 1 Mode: Private
** end
```

## xStatus Conference Multipoint Mode

*Applies to: All products*

Requires user role: ADMIN, USER

The multipoint status defines how new participants should be added to the call or conference. Among several things it depends on the Provisioning Mode and Conference Multipoint Mode settings, the protocol used for the current call (SIP or Webex), and the MultiSite option key.

Value space of the result returned:

*CUCMMediaResourceGroupList/MultiSite/Off/Spark*

**Off:** Multiparty conferences may be set up via an MCU if you call an MCU that allows devices to add participants to a conference (Direct Remote Add). When calling another video device, some devices can add one extra participant on audio-only.

**MultiSite:** If Conference Multipoint Mode is set to MultiSite, multiparty conferences are always set up using the built-in MultiSite feature. If Conference Multipoint Mode is set to Auto, the built-in MultiSite feature is used for multiparty conferences only when calling other video devices. Multiparty conferences are set up via an MCU if you call an MCU that allows devices to add participants to a conference (Direct Remote Add).

**CUCMMediaResourceGroupList:** Multiparty conferences are hosted by a CUCM configured conference bridge (ad hoc conferencing).

**Spark:** Multiparty conferences are set up through the Webex cloud service.

Example:

```
xStatus Conference Multipoint Mode
*s Conference Multipoint Mode: "CUCMMediaResourceGroupList"
** end
```

## xStatus Conference PeopleFocus Active

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows whether people focus is currently active on the device.

Value space of the result returned:

*False/True*

**False:** People focus is currently active.

**True:** People focus is currently inactive.

Example:

```
xStatus Conference PeopleFocus Active
*s Conference PeopleFocus Active: True
** end
```

## xStatus Conference PeopleFocus Available

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows if people focus is available on the device. That is, whether it is possible to activate or deactivate people focus from the UI or using the Conference PeopleFocus Activate and Conference PeopleFocus Deactivate commands.

Value space of the result returned:

*False/True*

**False:** People focus is not available on this device.

**True:** People focus is available on this device.

Example:

```
xStatus Conference PeopleFocus Available
*s Conference PeopleFocus Available: True
** end
```

## xStatus Conference Presentation CallId

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER, ROOMCONTROL

Shows the identifier of the device that sends the presentation.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Presentation CallId
*s Conference Presentation CallId: 0
** end
```

## xStatus Conference Presentation LocalInstance [n] DirectShare

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

DirectShare is when a software client sends a presentation to the video device across local Wi-Fi.

This status shows the identifier, directshareid, for the direct share. The number of active direct shares is currently limited to 1, so this will return 1 any time there is a direct share in progress.

If LocalInstance Directshare is set, you can look for more information (for example, Peer Address, Peer PeripheralID, and Type) under xStatus Video Input DirectShare [directshareid].

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Presentation LocalInstance 1 DirectShare
*s Conference Presentation LocalInstance 1 DirectShare: 1
** end
```

## xStatus Conference Presentation LocalInstance [n] SendingMode

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether a presentation source is shared locally or with a remote participant. There can be multiple local presentations which all have their own instance.

Value space of the result returned:

*LocalOnly/LocalRemote/Off*

Example:

```
xStatus Conference Presentation LocalInstance 1 SendingMode
*s Conference Presentation LocalInstance 1 SendingMode: LocalOnly
** end
```

## xStatus Conference Presentation LocalInstance [n] Source

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the source identifier, sourceid, for a current presentation. There can be multiple local presentations which all have their own instance.

With the sourceid, you can look for more information (for example, ConnectorId, FormatType, etc.) under xStatus Video Input Source [sourceid].

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference Presentation LocalInstance 1 Source
*s Conference Presentation LocalInstance 1 Source: 1
** end
```

## xStatus Conference Presentation Mode

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the status of the secondary video stream.

Value space of the result returned:

*Off/Sending/Receiving*

Example:

```
xStatus Conference Presentation Mode
*s Conference Presentation Mode: Off
** end
```

### xStatus Conference Presentation Whiteboard BoardUrl

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Returns the url of a whiteboard that is being shared in call.

Value space of the result returned:

*String*

A valid url.

Example:

```
xStatus Conference Presentation Whiteboard BoardUrl
*s Conference Presentation Whiteboard BoardUrl: "https://xxxxxx"
** end
```

### xStatus Conference Presentation Whiteboard Mode

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows whether a whiteboard is currently being shared in call.

Value space of the result returned:

*Off/On*

**Off:** A whiteboard is not being shared.

**On:** A whiteboard is being shared.

Example:

```
xStatus Conference Presentation Whiteboard Mode
*s Conference Presentation Whiteboard Mode: On
** end
```

### xStatus Conference SelectedCallProtocol

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates which call protocol is used as default.

Value space of the result returned:

*H323/SIP/Spark*

Example:

```
xStatus Conference SelectedCallProtocol
*s Conference SelectedCallProtocol: SIP
** end
```

### xStatus Conference SpeakerLock CallId

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the CallId for the participant locked as the prominent speaker in the conference.

Value space of the result returned:

*Integer*

Example:

```
xStatus Conference SpeakerLock CallId
*s Conference SpeakerLock CallId: 0
** end
```

### xStatus Conference SpeakerLock Mode

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows whether the speaker lock is enabled or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Conference SpeakerLock Mode
*s Conference SpeakerLock Mode: Off
** end
```

## Diagnostics status

### xStatus Diagnostics Message [n] Description

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a description of the current diagnostics alerts.

Value space of the result returned:

*String*

Example:

```
xStatus Diagnostics Message Description
*s DiagnosticsResult Message 1 Description: "IP configuration incomplete"
** end
```

### xStatus Diagnostics Message [n] Level

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the level of importance of the diagnostics message.

Value space of the result returned:

*Error/Warning/Critical*

**Error:** There is an error in the device. The device can still be used, but there can be some restrictions.

**Warning:** A problem is detected and a more specific report follows indicating the exact problem.

**Critical:** The warning level is critical. The device cannot be used.

Example:

```
xStatus Diagnostics Message 4 Level
*s Diagnostics Message 4 Level: Warning
** end
```

### xStatus Diagnostics Message [n] References

*Applies to: All products*

Requires user role: ADMIN, USER

Additional information on the diagnostics alert, if available.

Value space of the result returned:

*String*

Example:

```
xStatus Diagnostics Message 10 References
*s Diagnostics Message 10 References: "delay=190"
** end
```

**xStatus Diagnostics Message [n] Type***Applies to: All products*

Requires user role: ADMIN, USER

Shows information on the results of the latest diagnostics on the device.

Value space of the result returned:

*ANATonVCS/AirPlayBeacon/AirPlayProvisioning/AirPlayProvisioningCertificates/  
 AmplifierDetection/AmplifierFanStatus/AudioInternalSpeakerDisabled/  
 AudioPairingInterference/AudioPairingNoise/AudioPairingRate/AudioPairingSNR/  
 AudioPairingTokenDecode/BluetoothHardware/CAPFOperationState/CTLInstallation/  
 CUCMAndCloudConfigurability/CUCMVendorConfigurationFile/CallHistoryConfiguration/  
 CallProtocolDualStackConfig/CallProtocolIPStackPlatformCompatibility/  
 CallProtocolInvalidCloudProv/CallProtocolVcsProvisioningCompatibility/  
 CameraDetected/Camerald/CameraPairing/CameraSerial/CameraSoftwareVersion/  
 CameraStatus/CapsetFilterConfiguration/CaptivePortalDetected/CertificateExpiry/  
 CheckInConfigurationPersonalProvisioning/CheckInHotdeskExclusivity/  
 CloudAwareConfigInvalid/CloudConfigurationBulkWriteback/  
 CloudConfigurationWriteback/CompanionModelIncompatibilityLocal/  
 CompanionModelIncompatibilityRemote/ConfigurationFile/ContactInfoMismatch/  
 ControlSystemConnection/CurrentNetworkQuality/DefaultCallProtocolRegistered/  
 DeveloperPreview/DigitalMicrophoneStatus/ECReferenceDelay/  
 EmbeddedWebViewFailedToLoad/EmbeddedWebViewTerminatedByOutOfMemory/  
 EmbeddedWebViewTerminatedUnexpectedly/EthernetDuplexMatches/  
 FanStatus/FirstTimeWizardNotCompleted/H323EncrAes256AndDHSize/  
 H323GatekeeperStatus/HTTPFeedbackFailed/HTTSPModeSecurity/  
 HasActiveCallProtocol/HasValidReleaseKey/HdmiCecModeNoSound/  
 HologramCameras/HotdeskConfiguration/HotdeskKioskExclusivity/HttpProxyStatus/  
 IPv4Assignment/IPv6Assignment/IPv6Mtu/ITLInstallation/InstantMeetingConfiguration/  
 InternalXapiAccessDenied/InternalXapiUsage/InvalidSIPTransportConfig/  
 IpCameraStatus/KioskSettingsMenuLockConfiguration/KioskURLConfiguration/  
 KioskWebEngineModeConfiguration/KioskWebViewPageLoadStatus/  
 KioskWebViewStatus/KioskWebViewTerminatedByOutOfMemory/  
 LockDown/LockedDeviceCompanionMode/LowBattery/  
 MacrosErrorLogged/MacrosProvisioningStatus/MacrosRuntimeActive/  
 MacrosRuntimeHasHadCrash/MacrosRuntimeResponsiveness/  
 MacrosRuntimeStopped/MediaBlockingDetected/MediaPortRangeNegative/  
 MediaPortRangeOdd/MediaPortRangeOverlap/MediaPortRangeTooSmall/  
 MediaPortRangeValueSpace/MicrophoneMuteOverride/MicrophoneOverloaded/  
 MicrophonePower/MicrophonesConnected/MiracastWiFiCoexistenceStatus/  
 MiracastWpsPinLocked/MissingDisplay/MissingThirdDisplay/MonitorDelay/  
 MonitorFirmwareVersion/NTPStatus/NavigatorDeviceLocationConfiguration/  
 NetLinkStatus/NetSpeedAutoNegotiated/NetworkConnectivity/NetworkQuality/  
 NetworkSwitch/OSDVideoOutput/OutputConnectorLocations/PIILoggingMode/  
 PanoramaCameraHdmi/PanoramaView/PeripheralSoftwareUpgrade/  
 PeripheralSoftwareVersion/PersistentWebAppAllowedHostConfiguration/  
 PersistentWebAppFailedToLoad/PersistentWebAppTerminatedByOutOfMemory/  
 PersistentWebAppTerminatedUnexpectedly/PersistentWebAppURLConfiguration/  
 PersistentWebAppWebEngineModeConfiguration/PlatformSanity/PoEStatus/*

*PresentationSourceSelection/PresenterTrack/ProvModeWebexAndWebexEdgeEnabled/  
 ProvisioningDeveloperOptions/ProvisioningModeAndStatus/  
 ProvisioningStatus/RoomControl/RoomSchedulingConfiguration/  
 SIPEncryption/SIPListenPortAndRegistration/SIPProfileRegistration/  
 SIPProfileType/SelectedVideoInputSourceConnected/SignageFailedToLoad/  
 SignageTerminatedByOutOfMemory/SignageTerminatedUnexpectedly/  
 SipPceAndAnatConflict/SipOrH323ButNotBothEnabled/SmtServiceConfiguration/  
 SoftwareUpgrade/SoftwareUpgradeAvailability/SoftwareUpgradeCompatibility/  
 SoftwareUpgradeKeepsFailing/SoftwareUpgradeProvider/  
 SpeakerTrackEthernetConnection/SpeakerTrackFrontPanelMountedCorrectly/  
 SpeakerTrackMicrophoneConnection/SpeakerTrackVideoInputs/  
 StandbyCtrlOfficeHoursConfiguration/StylusBattery/TCPMediaFallback/  
 TLSVerifyRequiredCerts/TemperatureCheck/ThousandEyesStatus/  
 TouchDeviceRunningMTRMemoryStatus/TouchPanelConnection/USBAudioDeviceError/  
 USBCameraMode/USBInterfaceType/USBMicType/UltrasoundConfigSettings/  
 UltrasoundSpeakerAvailability/ValidPasswords/VideoFromInternalCamera/  
 VideoInputSignalQuality/VideoInputStability/VideoPortRangeNegative/  
 VideoPortRangeOdd/VideoPortRangeTooSmall/VideoPortRangeValueSpace/  
 WebRTCCalling/WebRTCWebViewTerminatedByOutOfMemory/  
 WebRTCWebViewTerminatedUnexpectedly/WebWidgetFailedToLoad/  
 WebWidgetTerminatedByOutOfMemory/WebWidgetTerminatedUnexpectedly/  
 WebexAccountLinking/WebexAccountPlusWebexEdgeEnabled/  
 WebexActivationRequired/WebexAudioProximityConnectivity/  
 WebexConnectivity/WebexEdgeAccountPendingCloudRegistration/  
 WebexEdgeAccountPlusProvModeWebex/WebexLyraConnectivity/  
 WebexMustUpgradeCeSoftware/WebexNotificationConnectivity/WebexOffline/  
 WebexProvisionalAccountStatus/WebexQRCodeProximityConnectivity/  
 WebexShouldUpgradeCeSoftware/WebexUsbcProximityConnectivity/  
 WifiCARRequired/WifiRadioQuality/WirelessCharging/WirelessConnectionStatus/  
 XapiApiKeyWebsocketHttpsDisabled*

Example:

```

xStatus Diagnostics Message Type
*s Diagnostics Message 1 Type: CamerasDetected
** end

```

## GPIO status

### xStatus GPIO Pin [n] State

*Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the current state of each of the four GPIO pins.

Value space of the result returned:

*High/Low*

*High:* +12V, the default state.

*Low:* 0V, when activated.

Example:

```
xStatus GPIO Pin 1 State
*s GPIO Pin 1 State: High
** end
```

## H323 status

### xStatus H323 Gatekeeper Address

*Applies to: All products*

Requires user role: ADMIN, USER

Displays the IP address of the gatekeeper where the device is registered.

Value space of the result returned:

*String*

Example:

```
xStatus H323 Gatekeeper Address
*s H323 Gatekeeper Address: "192.0.1.20"
** end
```

### xStatus H323 Gatekeeper Port

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the port which is used when connecting to on the gatekeeper.

Value space of the result returned:

*Integer*

Example:

```
xStatus H323 Gatekeeper Port
*s H323 Gatekeeper Port: 1719
** end
```

### xStatus H323 Gatekeeper Reason

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the reason for rejected registration.

Value space of the result returned:

*String*

Example:

```
xStatus H323 Gatekeeper Reason
*s H323 Gatekeeper Reason: ""
** end
```



## xStatus H323 Gatekeeper Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the gatekeeper registration status.

Value space of the result returned:

*Required/Discovering/Discovered/Authenticating/Authenticated/Registering/Registered/  
Inactive/Rejected*

Example:

```
xStatus H323 Gatekeeper Status
*s H323 Gatekeeper Status: Registered
** end
```

## xStatus H323 Mode Reason

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether there is a conflict between H.323 settings and xStatus H323 Mode Status.

Value space of the result returned:

*String*

"": When H.323 is set to On and there is no conflict between H.323 Mode configuration and the rest of the device settings.

"SIP is enabled": When H.323 Mode is set to On and SIP is enabled on a device that does not support the two simultaneously.

"Not available": When a device does not support H.323.

Example:

```
xStatus H323 Mode Reason
*s H323 Mode Reason: ""
** end
```

## xStatus H323 Mode Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status for H.323 registration.

Value space of the result returned:

*Enabled/Disabled*

**Enabled:** Registration is enabled.

**Disabled:** Registration is disable, because SIP is enabled.

Example:

```
xStatus H323 Mode Status
*s H323 Mode Status: "Disabled"
** end
```

## HttpFeedback status

### xStatus HttpFeedback [n] Expression [n]

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the feedback from the HTTP server. There can be up to 4 slots of servers requesting HTTP feedback and up to 15 expressions for each URL. See the xCommand HttpFeedback commands for more information.

Value space of the result returned:

*String*

### xStatus HttpFeedback [n] Format

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the format of the HTTP Feedback feedback from the HTTP server.

Value space of the result returned:

*XML/JSON*

Example:

```
xStatus HttpFeedback 1 Format
*s HttpFeedback 1 Format: XML
** end
```

### xStatus HttpFeedback [n] Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the feedback sent to the HTTP server.

Value space of the result returned:

*OK/Failed*

**OK:** Shows that the feedback has been successfully sent.

**Failed:** Shows that the feedback has not been successfully sent.

Example:

```
xStatus HttpFeedback 1 Status
*s HttpFeedback 1 Status: OK
** end
```

### xStatus HttpFeedback [n] URL

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the URL (Uniform Resource Locator) of the HTTP server. There can be up to three HTTP servers, specified by the URL.

Value space of the result returned:

*String*

Example:

```
xStatus HttpFeedback 1 URL
*s HttpFeedback 1 URL: "http://tms.company.com/tms/public/feedback/code.aspx"
** end
```

## Logging status

### xStatus Logging ExtendedLogging Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates whether extended logging of diagnostics is turned on or off.

Value space of the result returned:

*Off/On*

Example:

```
xStatus Logging ExtendedLogging Mode
*s Logging ExtendedLogging Mode: Off
** end
```

### xStatus Logging ExtendedLogging PacketDump

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether packet data is included when running extended logging. Refer to the Logging ExtendedLogging Start and Stop commands for more information and packet dump.

Value space of the result returned:

*Off/On*

*Off:* Packet data is not captured during extended logging.

*On:* Packet data is being captured and stored in separate .pcap files during extended logging.

Example:

```
xStatus Logging ExtendedLogging PacketDump
*s Logging ExtendedLogging PacketDump: Off
** end
```

### xStatus Logging ExtendedLogging RenderingDump

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether a limited rendering dump is included when running extended logging. Refer to the Logging ExtendedLogging Start and Stop commands for more information about rendering dumps.

Value space of the result returned:

*Off/On*

*Off:* A limited rendering dump is not being captured during extended logging.

*On:* A limited rendering dump is written to the osd.log file during extended logging.

Example:

```
xStatus Logging ExtendedLogging RenderingDump
*s Logging ExtendedLogging RenderingDump: Off
** end
```

## MediaChannels status

### xStatus MediaChannels Call [n] Channel [n] Audio ChannelRole

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the role of the incoming or outgoing audio channel.

Value space of the result returned:

*Main/Presentation*

**Main:** The audio from the main video is on the incoming or outgoing audio channel.

**Presentation:** The audio from the presentation is on the incoming or outgoing audio channel.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Audio ChannelRole
*s MediaChannels Call 27 Channel 327 Audio ChannelRole: Main
** end
```

### xStatus MediaChannels Call [n] Channel [n] Audio Channels

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of incoming or outgoing audio channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Audio Channels
*s MediaChannels Call 27 Channel 327 Audio Channels: 1
** end
```

### xStatus MediaChannels Call [n] Channel [n] Audio Mute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Audio mute status of the incoming audio.

Value space of the result returned:

*True/False*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Audio Mute
*s MediaChannels Call 27 Channel 327 Audio Mute: False
** end
```

### xStatus MediaChannels Call [n] Channel [n] Audio Protocol

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the audio algorithm of the incoming or outgoing audio.

Value space of the result returned:

*AACLD/G711A/G711Mu/G722/G7221/G7221C/G723\_1/G728/G729/G729A/G729AB/Off/Opus*

**AACLD:** The AAC-LD is an MPEG-4 Low Delay Audio Coder audio compression format.

**G711A:** The G.711 A-law algorithm is an ITU-T standard for audio compression.

**G711Mu:** The G.711 Mu-law algorithm is an ITU-T standard for audio compression.

**G722:** The G.722 algorithm is an ITU-T standard for audio compression.

**G7221:** The G.722.1 algorithm is an ITU-T standard for audio compression.

**G7221C:** The G.722.1 annex C algorithm is an ITU-T standard for audio compression.

**G723\_1:** The G.723.1 algorithm is an ITU-T standard for audio compression.

**G728:** The G.728 algorithm is an ITU-T standard for audio compression.

**G729:** The G.729 algorithm is an ITU-T standard for audio compression.

**G729A:** The G.729 annex A algorithm is an ITU-T standard for audio compression.

**G729AB:** The G.729 annex A and B algorithm is an ITU-T standard for audio compression.

**Off:** No audio.

**Opus:** Opus is a royalty-free IETF standard for audio compression.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Audio Protocol
*s MediaChannels Call 27 Channel 327 Audio Protocol: AACLD
** end
```

### xStatus MediaChannels Call [n] Channel [n] Direction

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the direction of the call.

Value space of the result returned:

*Incoming/Outgoing*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Direction
*s MediaChannels Call 27 Channel 327 Direction: Incoming
** end
```

### xStatus MediaChannels Call [n] Channel [n] Encryption

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the encryption status for audio or video on the incoming or outgoing call.

Value space of the result returned:

*On/Off*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Encryption
*s MediaChannels Call 27 Channel 327 Encryption: On
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat Bytes

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of bytes for audio, video or data on the incoming or outgoing channel.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat Bytes
*s MediaChannels Call 27 Channel 327 NetStat Bytes: 496640
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat ChannelRate

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the bandwidth for audio, video or data on the incoming or outgoing channel.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat ChannelRate
*s MediaChannels Call 27 Channel 327 NetStat ChannelRate: 128000
** end
```

### xStatus MediaChannels Call [n] Channel [n] Netstat EndToEndDelay

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Returns the end-to-end delay (in milliseconds) for audio, video, or data during the last interval on the incoming channels. The end-to-end delay is the time it takes from the far-end sends the media until it is received and displayed locally on the device.

Value space of the result returned:

*Integer*

The end-to-end delay in milliseconds.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Netstat EndToEndDelay
*s MediaChannels Call 27 Channel 327 Netstat EndToEndDelay: 0
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat Jitter

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the jitter for audio, video or data at the present moment on the incoming or outgoing channel, as specified by RFC 3550.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat Jitter
*s MediaChannels Call 27 Channel 327 NetStat Jitter: 2
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat LastIntervalLost

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of packets lost for audio, video or data during the last interval on the incoming or outgoing channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat LastIntervalLost
*s MediaChannels Call 27 Channel 327 NetStat LastIntervalLost: 0
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat LastIntervalReceived

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of packets received for audio, video or data during the last interval on the incoming or outgoing channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat LastIntervalReceived
*s MediaChannels Call 27 Channel 327 NetStat LastIntervalReceived: 289
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat Loss

*Applies to: All products*

Requires user role: ADMIN, USER

Shows True number of packets lost for audio, video or data on the incoming or outgoing channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat Loss
*s MediaChannels Call 27 Channel 327 NetStat Loss: 0
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat MaxJitter

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the maximum jitter for audio, video or data that has been measured during last interval (about 5 seconds).

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat MaxJitter
*s MediaChannels Call 27 Channel 327 NetStat MaxJitter: 2
** end
```

### xStatus MediaChannels Call [n] Channel [n] NetStat Packets

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of packets that was received or sent for audio, video or data on the incoming or outgoing channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 NetStat Packets
*s MediaChannels Call 27 Channel 327 NetStat Packets: 1551
** end
```

### xStatus MediaChannels Call [n] Channel [n] Netstat RoundTripTime

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Returns the round-trip time (in milliseconds) during the last interval on the outgoing (and sometimes incoming) channels. The round-trip time is the two-way network delay on the first media hop. For example, from the local device to the far-end device and back, or from the local device to the Webex cloud and back. It depends on the network set-up.

Value space of the result returned:

*Integer*

The round-trip time in milliseconds.

Example:

```
xStatus MediaChannels Call 27 Channel 328 Netstat RoundTripTime
*s MediaChannels Call 27 Channel 328 Netstat RoundTripTime: 31
** end
```

### xStatus MediaChannels Call [n] Channel [n] ParticipantId

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the ID of the Active Control participant on the incoming audio or video channel.

Value space of the result returned:

*String*

Example:

```
xStatus MediaChannels Call 27 Channel 327 ParticipantId
*s MediaChannels Call 27 Channel 327 ParticipantId: ""
** end
```

### xStatus MediaChannels Call [n] Channel [n] Type

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the media type on the incoming or outgoing channel.

Value space of the result returned:

*Audio/Video/Data*

**Audio:** The media type on the incoming or outgoing channel is audio.

**Video:** The media type on the incoming or outgoing channel is video.

**Data:** The media type on the incoming or outgoing channel is data.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Type
*s MediaChannels Call 27 Channel 327 Type: Audio
** end
```

### xStatus MediaChannels Call [n] Channel [n] Video ChannelRole

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the role of the incoming or outgoing video channel.

Value space of the result returned:

*Main/Presentation*

**Main:** The main video is on the incoming or outgoing video channel.

**Presentation:** The presentation is on the incoming or outgoing video channel.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Video ChannelRole
*s MediaChannels Call 27 Channel 327 Video ChannelRole: Main
** end
```

## xStatus MediaChannels Call [n] Channel [n] Video ConcealmentType

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Describes the technique employed to hide visual errors in the video stream.

Value space of the result returned:

*Freeze/Motion/Sharpness/Unknown*

**Freeze:** Indicates that the concealment technique used in the video stream is to freeze the frame at the last valid image.

**Motion:** The concealment technique relies on introducing motion to hide visual errors in the video stream.

**Sharpness:** The concealment technique focuses on enhancing the sharpness of the video stream to compensate for visual errors.

**Unknown:** The concealment technique used in the video stream is unknown or not specified.

Example:

```
xStatus MediaChannels Call 10 Channel 531 Video ConcealmentType
*s MediaChannels Call 10 Channel 531 Video ConcealmentType: Motion
** end
```

## xStatus MediaChannels Call [n] Channel [n] Video FrameRate

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the frame rate of the incoming or outgoing video channel.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Video FrameRate
*s MediaChannels Call 27 Channel 327 Video FrameRate: 30
** end
```

## xStatus MediaChannels Call [n] Channel [n] Video intraFrames

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

This status returns an integer value representing the number of intraframes in the specified video channel. This information can be useful for understanding the composition and characteristics of the video stream.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 10 Channel 531 Video intraFrames
*s MediaChannels Call 10 Channel 531 Video intraFrames: 4
** end
```

## xStatus MediaChannels Call [n] Channel [n] Video Protocol

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the video algorithm of the incoming or outgoing video channel.

Value space of the result returned:

*H261/H263/H263p/H263pp/H264/HEVC/JPEG/MP4V/Off*

**H261:** The H.261 algorithm is an ITU-T standard for video compression.

**H263:** The H.263 algorithm is an ITU-T standard for video compression.

**H263p:** The H.263p (H.263+) algorithm is an ITU-T standard for video compression.

**H263pp:** The H.263pp (H.263++) algorithm is an ITU-T standard for video compression.

**H264:** The H.264 algorithm (MPEG-4 AVC) is an ITU-T and ISE/IEC standard for video compression.

**HEVC:** The HEVC (H.265) algorithm (MPEG-H part 2) is an ITU-T and ISE/IEC standard for video compression.

**JPEG:** The JPEG algorithm is an ISO/IEC standard for video compression.

**MP4V:** The MP4V format is an ISO/IEC file format for video compression.

**Off:** No video.

Example:

```
xStatus MediaChannels Call 27 Channel 327 Video Protocol
*s MediaChannels Call 27 Channel 327 Video Protocol: H264
** end
```



### xStatus MediaChannels Call [n] Channel [n] Video ResolutionX

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the width (resolution in direction X) of the incoming or outgoing video.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Video ResolutionX
*s MediaChannels Call 27 Channel 327 Video ResolutionX: 1920
** end
```

### xStatus MediaChannels Call [n] Channel [n] Video ResolutionY

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the height (resolution in direction Y) of the incoming or outgoing video.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels Call 27 Channel 327 Video ResolutionY
*s MediaChannels Call 27 Channel 327 Video ResolutionY: 1080
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Audio Channels

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of audio channels (none, mono, stereo) received over the channel in question.

Value space of the result returned:

*Integer*

**0:** None

**1:** Mono

**2:** Stereo

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Audio Channels
*s MediaChannels DirectShare 27 Channel 327 Audio Channels: 1
** end
```

## xStatus MediaChannels DirectShare [n] Channel [n] Audio Protocol

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the audio codec used for the active incoming share session.

Value space of the result returned:

```
AACLC/AACLD/AMR/CiscoPCM16/L16-768/ComfortNoise/G711A/G711Mu/G722/G7221/
G7221C/G723_1/G728/G729/G729A/G729AB/Off/Opus/Raw
```

The audio standards supported are essentially the same as supported in call, but the client will typically only ever use Opus (or AAC).

**AACLD:** The AAC-LD is an MPEG-4 Low Delay Audio Coder audio compression format.

**G711A:** The G.711 A-law algorithm is an ITU-T standard for audio compression.

**G711Mu:** The G.711 Mu-law algorithm is an ITU-T standard for audio compression.

**G722:** The G.722 algorithm is an ITU-T standard for audio compression.

**G7221:** The G.722.1 algorithm is an ITU-T standard for audio compression.

**G7221C:** The G.722.1 annex C algorithm is an ITU-T standard for audio compression.

**G723\_1:** The G.723.1 algorithm is an ITU-T standard for audio compression.

**G728:** The G.728 algorithm is an ITU-T standard for audio compression.

**G729:** The G.729 algorithm is an ITU-T standard for audio compression.

**G729A:** The G.729 annex A algorithm is an ITU-T standard for audio compression.

**G729AB:** The G.729 annex A and B algorithm is an ITU-T standard for audio compression.

**Off:** No audio.

**Opus:** Opus is a royalty-free IETF standard for audio compression.

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Audio Protocol
*s MediaChannels DirectShare 27 Channel 327 Audio Protocol: AACLD
** end
```

## xStatus MediaChannels DirectShare [n] Channel [n] Encryption

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the encryption status for the incoming audio/video channel in question.

Value space of the result returned:

*On/Off*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Encryption
*s MediaChannels DirectShare 27 Channel 327 Encryption: On
** end
```

## xStatus MediaChannels DirectShare [n] Channel [n] Netstat Bytes

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the cumulative number of bytes received for the channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat Bytes
*s MediaChannels DirectShare 27 Channel 327 NetStat Bytes: 496640
** end
```

## xStatus MediaChannels DirectShare [n] Channel [n] Netstat ChannelRate

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the current incoming audio/video bandwidth for the channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat ChannelRate
*s MediaChannels DirectShare 27 Channel 327 NetStat ChannelRate: 128000
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat Jitter

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the jitter currently measured for received audio/video on the incoming channel, as specified by RFC 3550.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat Jitter
*s MediaChannels DirectShare 27 Channel 327 NetStat Jitter: 2
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalLost

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of lost audio/video packets during the last interval on the incoming channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat LastIntervalLost
*s MediaChannels DirectShare 27 Channel 327 NetStat LastIntervalLost: 0
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalReceived

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of received audio/video packets during the last interval over the channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat LastIntervalReceived
*s MediaChannels DirectShare 27 Channel 327 NetStat LastIntervalReceived: 289
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat Loss

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of audio/video packets lost for the channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat Loss
*s MediaChannels DirectShare 27 Channel 327 NetStat Loss: 0
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat MaxJitter

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the maximum jitter measured on the channel in question during the last interval (about 5 seconds).

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat MaxJitter
*s MediaChannels DirectShare 27 Channel 327 NetStat MaxJitter: 2
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Netstat Packets

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the total number of packets received for the channel in question.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 NetStat Packets
*s MediaChannels DirectShare 27 Channel 327 NetStat Packets: 1551
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Video FrameRate

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the received frame rate for the channel in question. Note: Only applicable to video channels.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Video FrameRate
*s MediaChannels DirectShare 27 Channel 327 Video FrameRate: 30
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Video Protocol

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the video codec used for the channel in question.

Value space of the result returned:

*H261/H263/H263p/H263pp/H264/HEVC/AV1/JPEG/MP4V/Off/Raw/RDP*

The video standards supported are essentially the same as supported in call, but the client will typically only ever use H264.

**H261:** The H.261 algorithm is an ITU-T standard for video compression.

**H263:** The H.263 algorithm is an ITU-T standard for video compression.

**H263p:** The H.263p (H.263+) algorithm is an ITU-T standard for video compression.

**H263pp:** The H.263pp (H.263++) algorithm is an ITU-T standard for video compression.

**H264:** The H.264 algorithm (MPEG-4 AVC) is an ITU-T and ISE/IEC standard for video compression.

**HEVC:** The HEVC (H.265) algorithm (MPEG-H part 2) is an ITU-T and ISE/IEC standard for video compression.

**JPEG:** The JPEG algorithm is an ISO/IEC standard for video compression.

**MP4V:** The MP4V format is an ISO/IEC file format for video compression.

**Off:** No video.

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Video Protocol
*s MediaChannels DirectShare 27 Channel 327 Video Protocol: H264
** end
```

### xStatus MediaChannels DirectShare [n] Channel [n] Video ResolutionX

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the width (resolution in the x-direction) of the video stream received.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Video ResolutionX
*s MediaChannels DirectShare 27 Channel 327 Video ResolutionX: 1920
** end
```

## xStatus MediaChannels DirectShare [n] Channel [n] Video ResolutionY

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the height (resolution in y-direction) of the video stream received.

Value space of the result returned:

*Integer*

Example:

```
xStatus MediaChannels DirectShare 27 Channel 327 Video ResolutionY
*s MediaChannels DirectShare 27 Channel 327 Video ResolutionY: 1080
** end
```

## MicrosoftTeams status

### xStatus MicrosoftTeams Calling InCall

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Show if the Microsoft Teams App is in a call or not.

Value space of the result returned:

*False/True*

**False:** Not in a call.

**True:** In a call.

Example:

```
xStatus MicrosoftTeams Calling InCall
*s MicrosoftTeams Calling InCall: False
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] CroppedHeight

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The cropped height of the frame produced by the decoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 1 CroppedHeight
*s MicrosoftTeams HardwareAccelerator Decoder 5 CroppedHeight: 1080
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] CroppedWidth

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The cropped width of the frame produced by the decoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 1 CroppedWidth
*s MicrosoftTeams HardwareAccelerator Decoder 5 CroppedWidth: 1920
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Fps

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Number of frames pr second from the decoder that Microsoft Teams uses. Measured over the sample period that is returned in the MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs status.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 Fps
*s MicrosoftTeams HardwareAccelerator Decoder 4 Fps: "30.06"
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] FrameCount

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The number of frames produced by the decoder that Microsoft Teams uses. Measured over the sample period that is returned in the MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs status.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 FrameCount
*s MicrosoftTeams HardwareAccelerator Decoder 4 FrameCount: 60
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Height

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The height of the frame data from the decoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 Height
*s MicrosoftTeams HardwareAccelerator Decoder 4 Height: 1088
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] OutputMode

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The mode of the decoder that Microsoft Teams uses: ByteBuffered or Surface mode.

Value space of the result returned:

*ByteBuffer/Surface/Unknown*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 OutputMode
*s MicrosoftTeams HardwareAccelerator Decoder 4 OutputMode: ByteBuffer
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Sample period for the data returned by the MicrosoftTeams HardwareAccelerator Decoder [n] Bitrate, InputBytesProcessed, FrameCount, and Fps statuses.

Value space of the result returned:

*Integer*

Period duration in micro-seconds.

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 SamplePeriodUs
*s MicrosoftTeams HardwareAccelerator Decoder 4 SamplePeriodUs: 1995871
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Decoder [n] Width

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The width of the frame data from the decoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Decoder 4 Width
*s MicrosoftTeams HardwareAccelerator Decoder 4 Width: 1920
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Fps

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Number of frames pr second to the encoder that Microsoft Teams uses. Measured over the sample period that is returned in the MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs status.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 Fps
*s MicrosoftTeams HardwareAccelerator Encoder 9 Fps: "29.56"
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] FrameCount

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Number of frames handled by the encoder that Microsoft Teams uses. Measured over the sample period that is returned in the MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs status.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 FrameCount
*s MicrosoftTeams HardwareAccelerator Encoder 9 FrameCount: 59
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Height

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The height of the frame data to the encoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 Height
*s MicrosoftTeams HardwareAccelerator Encoder 9 Height: 1080
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] InputMode

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The mode of the encoder that Microsoft Teams uses: ByteBuffered or Surface mode.

Value space of the result returned:

*ByteBuffer/Surface/Unknown*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 InputMode
*s MicrosoftTeams HardwareAccelerator Encoder 9 InputMode: Surface
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Sample period for the data returned by the MicrosoftTeams HardwareAccelerator Encoder [n] Bitrate, BytesProduced, FrameCount, and Fps statuses.

Value space of the result returned:

*Integer*

Period duration in micro-seconds.

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 SamplePeriodUs
*s MicrosoftTeams HardwareAccelerator Encoder 9 SamplePeriodUs: 1995897
** end
```

### xStatus MicrosoftTeams HardwareAccelerator Encoder [n] Width

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

The width of the frame data to the encoder that Microsoft Teams uses.

Value space of the result returned:

*Integer*

Example:

```
xStatus MicrosoftTeams HardwareAccelerator Encoder 9 Width
*s MicrosoftTeams HardwareAccelerator Encoder 9 Width: 1920
** end
```



## xStatus MicrosoftTeams Pairing Active

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Reports whether a Room Navigator has Microsoft Teams pairing with the video device.

In Microsoft Teams, the Room Navigator is referred to as "Console" and the video device as "FrontOfRoom device".

Pairing will only work when the user is signed in with the same username both on the Console and the FrontOfRoom device. Then the Console will look for FrontOfRoom devices to pair with. Also refer to the MicrosoftTeams User SignedIn status.

Value space of the result returned:

*False/True*

**False:** A Room Navigator is paired with the device.

**True:** A Room Navigator is not paired with the device.

Example:

```
xStatus MicrosoftTeams Pairing Active
*s MicrosoftTeams Pairing Active: True
** end
```

## xStatus MicrosoftTeams Software Version Android

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of Android that's running on the device.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version Android
*s MicrosoftTeams Software Version Android: "11-2021-10-01"
** end
```

## xStatus MicrosoftTeams Software Version Authenticator

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of the Microsoft Authenticator application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version Authenticator
*s MicrosoftTeams Software Version Authenticator: "6.2404.2229"
** end
```

## xStatus MicrosoftTeams Software Version CompanyPortalApp

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of the Microsoft Company Portal application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version CompanyPortalApp
*s MicrosoftTeams Software Version CompanyPortalApp: "5.0.5882.0"
** end
```

## xStatus MicrosoftTeams Software Version MicrosoftIntune

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of the Microsoft Intune application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version MicrosoftIntune
*s MicrosoftTeams Software Version MicrosoftIntune: "24.03.6"
** end
```

### xStatus MicrosoftTeams Software Version OEMAgent

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of OEM Agent (Oracle Enterprise Manager).

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version OEMAgent
*s MicrosoftTeams Software Version OEMAgent: "2411.07.00"
** end
```

### xStatus MicrosoftTeams Software Version TeamsAdminAgent

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of the Microsoft Teams Admin Agent.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version TeamsAdminAgent
*s MicrosoftTeams Software Version TeamsAdminAgent: "1.0.0.202305022347.
product"
** end
```

### xStatus MicrosoftTeams Software Version TeamsApp

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version of the Microsoft Teams application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software Version TeamsApp
*s MicrosoftTeams Software Version TeamsApp: "1449/1.0.96.2023062301"
** end
```

### xStatus MicrosoftTeams Software VersionCode Authenticator

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version code of the Microsoft Authenticator application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software VersionCode Authenticator
*s MicrosoftTeams Software VersionCode Authenticator: "202422293"
** end
```

### xStatus MicrosoftTeams Software VersionCode CompanyPortalApp

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version code of the Microsoft Company Portal application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software VersionCode CompanyPortalApp
*s MicrosoftTeams Software VersionCode CompanyPortalApp: "5972740"
** end
```

### xStatus MicrosoftTeams Software VersionCode MicrosoftIntune

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version code of the Microsoft Intune application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software VersionCode MicrosoftIntune
*s MicrosoftTeams Software VersionCode MicrosoftIntune: "240306260"
** end
```

### xStatus MicrosoftTeams Software VersionCode OEMAgent

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Value space of the result returned:

*String*

Display the version code of the OEM (Oracle Enterprise Manager) Agent.

Example:

```
xStatus MicrosoftTeams Software VersionCode OEMAgent
*s MicrosoftTeams Software VersionCode OEMAgent: "24110700"
** end
```

### xStatus MicrosoftTeams Software VersionCode TeamsAdminAgent

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Value space of the result returned:

*String*

Display the version code of the Microsoft Teams Admin Agent.

Example:

```
xStatus MicrosoftTeams Software VersionCode TeamsAdminAgent
*s MicrosoftTeams Software VersionCode TeamsAdminAgent: "463"
** end
```

### xStatus MicrosoftTeams Software VersionCode TeamsApp

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Display the version code of the Microsoft Teams application.

Value space of the result returned:

*String*

Example:

```
xStatus MicrosoftTeams Software VersionCode TeamsApp
*s MicrosoftTeams Software VersionCode TeamsApp: "2023174010"
** end
```

### xStatus MicrosoftTeams User SignedIn

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Reports whether the user is signed in to the Microsoft Teams application on the device.

Value space of the result returned:

*False/True*

**False:** No one is signed in to the application.

**True:** A user is signed in to the application.

Example:

```
xStatus MicrosoftTeams User SignedIn
*s MicrosoftTeams User SignedIn: True
** end
```

## Network status

### xStatus Network [n] ActiveInterface

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the type of network interface the device is currently connected to.

Value space of the result returned:

*LAN/WLAN*

*LAN:* The device is connected to a wired Ethernet network.

*WLAN:* The device is connected to a Wi-Fi network.

Example:

```
xStatus Network 1 ActiveInterface
*s Network 1 ActiveInterface: LAN
** end
```

### xStatus Network [n] CDP Address

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the first network address of both receiving and sending devices.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP Address
*s Network 1 CDP Address: "192.0.1.20"
** end
```

### xStatus Network [n] CDP Capabilities

*Applies to: All products*

Requires user role: ADMIN, USER

Describes the functional capability for the switch in form of a device type. See documentation for CDP protocol for more information.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP Capabilities
*s Network 1 CDP Capabilities: "0x0029"
** end
```

### xStatus Network [n] CDP DeviceId

*Applies to: All products*

Requires user role: ADMIN, USER

Identifies the name of the switch in form of a character string.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP DeviceId
*s Network 1 CDP DeviceId: "123456.company.com"
** end
```

### xStatus Network [n] CDP Duplex

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates the status (duplex configuration) of the CDP broadcast interface. Used by network operators to diagnose connectivity problems between adjacent network elements.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP Duplex
*s Network 1 CDP Duplex: "Full"
** end
```

### xStatus Network [n] CDP Platform

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the hardware platform name of the switch connected to the device.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP Platform
*s Network 1 CDP Platform: "cisco WS-C3750X-48P"
** end
```

### xStatus Network [n] CDP PortID

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the identification the switch uses of the port the device is connected to.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP PortID
*s Network 1 CDP PortID: "GigabitEthernet1/0/23"
** end
```

### xStatus Network [n] CDP PrimaryMgmtAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the management address used to configure and monitor the switch the device is connected to.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP PrimaryMgmtAddress
*s Network 1 CDP PrimaryMgmtAddress: "10.1.1.2"
** end
```

### xStatus Network [n] CDP SysName

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the SysName as configured in the switch the device is connected to.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP SysName
*s Network 1 CDP SysName: ""
** end
```

### xStatus Network [n] CDP SysObjectID

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the SysObjectID as configured in the switch the device is connected to.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP SysObjectID
*s Network 1 CDP SysObjectID: ""
** end
```

### xStatus Network [n] CDP Version

*Applies to: All products*

Requires user role: ADMIN, USER

Returns information about the software release version the switch is running.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 CDP Version
*s Network 1 CDP Version: "Cisco IOS Software, C3560CX Software (C3560CX-
UNIVERSALK9-M), Version 15.2(3)E, RELEASE SOFTWARE (fc4)*Technical Support:
http://www.cisco.com/techsupport*Copyright (c) 1986-2014 by Cisco Systems,
Inc.*Compiled Sun 07-Dec-14 13:15 by prod_rel_team"
** end
```

### xStatus Network [n] CDP VoIPApplianceVlanID

*Applies to: All products*

Requires user role: ADMIN, USER

Identifies the VLAN used for VoIP traffic from the device to the switch. For more information see documentation of the IEEE 802.1Q protocol.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP VoIPApplianceVlanID
*s Network 1 CDP VoIPApplianceVlanID: "300"
** end
```

### xStatus Network [n] CDP VTPMgmtDomain

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the switch's configured VTP management domain name-string.

Value space of the result returned:

*String*

Example:

```
xStatus Network CDP VTPMgmtDomain
*s Network 1 CDP VTPMgmtDomain: "anyplace"
** end
```

### xStatus Network [n] DNS Domain Name

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the domain name.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 DNS Domain Name
*s Network 1 DNS Domain Name: "www.example.com www.example.int"
** end
```

### xStatus Network [n] DNS Server [n] Address

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the IP address of the DNS server.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 DNS Server 1. Address
*s Network 1 DNS Server 1 Address: "192.0.2.60"
** end
```

### xStatus Network [n] Ethernet MacAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the MAC (Media Access Control) address for the Ethernet interface.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Ethernet MacAddress
*s Network 1 Ethernet MacAddress: "00:50:60:02:FD:C7"
** end
```

### xStatus Network [n] Ethernet Speed

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Ethernet speed in Mbps. The speed can be in full-duplex or half-duplex.

Value space of the result returned:

*10half/10full/100half/100full/1000full*

Example:

```
xStatus Network 1 Ethernet Speed
*s Network 1 Ethernet Speed: "100full"
** end
```

### xStatus Network [n] IEEE8021X Reason

*Applies to: All products*

Requires user role: ADMIN, USER

Provides the status reason for IEEE 802.1X authentication on network interface [n].

Value space of the result returned:

*String*

Indicates the reason for the current authentication status.

Example:

```
xStatus Network 1 IEEE8021X Reason
** end
```

### xStatus Network [n] IEEE8021X Status

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates the current authentication status for IEEE 802.1X on network interface [n].

Value space of the result returned:

*Associating/AuthFailed/Connected/Failed/Off/Other*

Describes the authentication state.

Example:

```
xStatus Network 1 IEEE8021X Status
** end
```

### xStatus Network [n] IPv4 Address

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the IPv4 address that uniquely identifies this device.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv4 Address
*s Network 1 IPv4 Address: "192.0.2.149"
** end
```

### xStatus Network [n] IPv4 Gateway

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the address of the IPv4 gateway.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv4 Gateway
*s Network 1 IPv4 Gateway: "192.0.2.10"
** end
```

### xStatus Network [n] IPv4 SubnetMask

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the subnet mask which determines which subnet an IPv4 address belongs to.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv4 SubnetMask
*s Network 1 IPv4 SubnetMask: "255.255.255.0"
** end
```

### xStatus Network [n] IPv6 Address

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the IPv6 address that uniquely identifies this device.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv6 Address
*s Network 1 IPv6 Address: ""
** end
```

## xStatus Network [n] IPv6 Gateway

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the address of the IPv6 gateway.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv6 Gateway
*s Network 1 IPv6 Gateway: ""
** end
```

## xStatus Network [n] IPv6 LinkLocalAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the IPv6 link local address that is displayed on the primary user interface.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 IPv6 LinkLocalAddress
*s Network 1 IPv6 LinkLocalAddress: "2001:DB8:0000:0000:0000:0000:0001"
** end
```

## xStatus Network [n] VLAN Voice VlanId

*Applies to: All products*

Requires user role: ADMIN, USER

The feedback shows the VLAN Voice ID.

Value space of the result returned:

*Off/1..4094*

**Off:** The VLAN Voice Mode is not enabled.

**1..4094:** VLAN Voice ID

Example:

```
xStatus Network 1 VLAN Voice VlanId
*s Network 1 VLAN Voice VlanId: "Off"
** end
```

## xStatus Network [n] Wifi BSSID

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Basic Service Set Identifiers (BSSID) used for the Wi-Fi connection.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi BSSID
*s Network 1 Wifi BSSID: "xx:xx:xx:xx:xx:xx"
** end
```

## xStatus Network [n] Wifi Channel

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the channel used for the Wi-Fi connection.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi Channel
*s Network 1 Wifi Channel: 13
** end
```

## xStatus Network [n] Wifi CLMVersion

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the version of the CLM blob that is on the device. The CLM blob is the file that holds information about maximum radio power output levels across channels for different countries. Different countries may have different regulatory constraints.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi CLMVersion
*s Network 1 Wifi CLMVersion: "XXXXXXXX"
** end
```



### xStatus Network [n] Wifi Connectivity

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*False/True*

Shows whether or not the device currently has connectivity to the Wi-Fi.

Example:

```
xStatus Network 1 Wifi Connectivity
*s Network 1 Wifi Connectivity: False
** end
```

### xStatus Network [n] Wifi Frequency

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the frequency corresponding to the Wi-Fi channel.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi frequency
*s Network 1 Wifi Frequency: nnnn
** end
```

### xStatus Network [n] Wifi FWVersion

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the firmware version of the device's Wi-Fi chip.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi FWVersion
*s Network 1 Wifi FWVersion: "XXXXXXXX"
** end
```

### xStatus Network [n] Wifi InterfaceEnabled

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates whether the Wi-Fi is enabled (on) or not (off).

Value space of the result returned:

*On/Off*

Example:

```
xStatus Network Wifi InterfaceEnabled
*s Network 1 Wifi InterfaceEnabled: Off
** end
```

### xStatus Network [n] Wifi InterfaceReason

*Applies to: All products*

Requires user role: ADMIN, USER

Provides a description of why the Wi-Fi interface is enabled or not.

Value space of the result returned:

*String*

Example:

```
xStatus Network Wifi InterfaceReason
*s Network 1 Wifi InterfaceReason: "wlan=Down, config=true"
** end
```

### xStatus Network [n] Wifi KeyMgmt

*Applies to: All products*

Requires user role: ADMIN, USER

The status returns an abbreviated string that represents the Wi-Fi network's connected security algorithms.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi KeyMgmt
*s Network 1 Wifi KeyMgmt: " WPA2/IEEE 802.1X/EAP"
** end
```

### xStatus Network [n] Wifi MacAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the MacAddress used for the Wi-Fi connection.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi MacAddress
*s Network 1 Wifi MacAddress: "xx:xx:xx:xx:xx:xx"
** end
```

### xStatus Network [n] Wifi Noise

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the noise level (dBm) on the Wi-Fi connection.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi Noise
*s Network 1 Wifi Noise: -92
** end
```

### xStatus Network [n] Wifi Phase2Method

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Phase2Method used for the Wi-Fi connection, if applicable.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi Phase2Method
*s Network 1 Wifi Phase2Method: ""
** end
```

### xStatus Network [n] Wifi RawSSID

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Raw SSID of the Wi-Fi connection.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi RawSSID
*s Network 1 Wifi RawSSID: "Aurora"
** end
```

### xStatus Network [n] Wifi Reason

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the reason defined for the Wi-Fi connection, if applicable.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi Reason
*s Network 1 Wifi Reason: ""
** end
```

### xStatus Network [n] Wifi Region

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the region of the Wi-Fi connection.

Value space of the result returned:

*String*

The region code. If the device doesn't receive a region code from the access point, the value will be "00".

Example:

```
xStatus Network 1 Wifi Region
*s Network 1 Wifi Region: "US"
** end
```

## xStatus Network [n] Wifi RSSI

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Received Signal Strength Indicator (RSSI) used by the Wi-Fi connection.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi RSSI
*s Network 1 Wifi RSSI: -62
** end
```

## xStatus Network [n] Wifi ScanResult [n] AuthType

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the authentication type for all the Wi-Fi networks found in a network scan.

You must run a scan (Network Wifi Scan Start) before this will yield results.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi ScanResult 2 AuthType
*s Network 1 Wifi ScanResult 2 AuthType: "Personal"
** end
```

## xStatus Network [n] Wifi ScanResult [n] RawSSID

*Applies to: All products*

Requires user role: ADMIN, USER

Returns all the RawSSID values found in a scan result.

You must run a scan (Network Wifi Scan Start) before this will yield results.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi ScanResult 1 RawSSID
*s Network 1 Wifi ScanResult 1 RawSSID: "Aurora"
** end
```

## xStatus Network [n] Wifi ScanResult [n] SignalLevel

*Applies to: All products*

Requires user role: ADMIN, USER

Returns all the SignalLevel values found in a scan result.

You must run a scan (Network Wifi Scan Start) before this will yield results.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi ScanResult 1 SignalLevel
*s Network 1 Wifi ScanResult 1 SignalLevel: -61
** end
```

## xStatus Network [n] Wifi ScanResult [n] SSID

*Applies to: All products*

Requires user role: ADMIN, USER

Returns all the SSID values found in a scan result.

You must run a scan (Network Wifi Scan Start) before this will yield results.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi ScanResult 1 SSID
*s Network 1 Wifi ScanResult 1 SSID: "Aurora"
** end
```

## xStatus Network [n] Wifi SNR

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the signal-to-noise ratio (dB) for the Wi-Fi connection.

Value space of the result returned:

*Integer*

Example:

```
xStatus Network 1 Wifi SNR
*s Network 1 Wifi SNR: 32
** end
```

## xStatus Network [n] Wifi Speed

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the transmit speed (uplink) of the Wi-Fi connection.

Value space of the result returned:

*Integer*

The speed in Mbps.

Example:

```
xStatus Network 1 Wifi Speed
*s Network 1 Wifi Speed: 39
** end
```

## xStatus Network [n] Wifi SSID

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the Server Set Identifier (SSID) of the Wi-Fi connection.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi SSID
*s Network 1 Wifi SSID: "Aurora"
** end
```

## xStatus Network [n] Wifi Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the Wi-Fi network connection.

Value space of the result returned:

*Associated/Associating/AuthFailed/Connected/Connecting/Disconnected/Failed/NetworkNotFound/Other*

Shows the status of the Wi-Fi network connection.

**Associated:** The device is associated to a Wi-Fi network.

**Associating:** The device is trying to associate with a Wi-Fi network.

**AuthFailed:** Authentication failed when trying to connect to a Wi-Fi network.

**Connected:** The device is connected to a Wi-Fi network.

**Connecting:** The device is trying to connect to a Wi-Fi network.

**Disconnected:** The device is not connected to a Wi-Fi network.

**Failed:** The device could not connect to the Wi-Fi network for reasons other than authentication failure.

**NetworkNotFound:** The specified network name (SSID) is not found in any scan. Or, the network name is found, but it is not the chosen security scheme (open, personal, enterprise, etc.)

**Other:** Any other scenario.

Example:

```
xStatus Network 1 Wifi Status
*s Network 1 Wifi Status: Connected
** end
```

## xStatus Network [n] Wifi SWVersion

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the software version of the Wi-Fi driver.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi SWVersion
*s Network 1 Wifi SWVersion: "XXXXXXXX"
** end
```

### xStatus Network [n] Wifi ToolsVersion

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the version of the command line interface tool for the Wi-Fi chip.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi ToolsVersion
*s Network 1 Wifi ToolsVersion: "XXXXXXXX"
** end
```

### xStatus Network [n] Wifi Type

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the encryption type of the Wi-Fi network connection.

Value space of the result returned:

*String*

Example:

```
xStatus Network 1 Wifi Type
*s Network 1 Wifi Type: "Wpa2-psk"
** end
```

## NetworkServices status

### xStatus NetworkServices NTP CurrentAddress

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the address of the NTP server that is currently in use.

Value space of the result returned:

*String*

Example:

```
xStatus NetworkServices NTP CurrentAddress
*s NetworkServices NTP CurrentAddress: "123.254.15.121"
** end
```

### xStatus NetworkServices NTP Server [n] Address

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the address of the NTP server(s) the device is using.

Value space of the result returned:

*String*

Example:

```
xStatus NetworkServices NTP Address
*s NetworkServices NTP Address: "12.104.193.12 64.104.222.16 144.254.15.121"
** end
```

## xStatus NetworkServices NTP Status

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the status of the devices synchronizing with the NTP server.

Value space of the result returned:

*Discarded/Synced/NotSynced/Unknown/Off*

**Discarded:** The NTP result has been discarded.

**Synced:** The device is in sync with the NTP server.

**NotSynced:** The device is not in sync with the NTP server.

**Unknown:** The state of the synchronization is unknown.

**Off:** No synchronization with the NTP server.

Example:

```
xStatus NetworkServices NTP Status
*s NetworkServices NTP Status: Synced
** end
```

## xStatus NetworkServices UPnP Status

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether or not the UPnP service advertises the device's presence on the network. The advertisement permits a touch controller to discover the device automatically, and you do not need to manually enter the device's IP address in order to pair the touch controller.

Value space of the result returned:

*Running/Stopped*

**Running:** The device's presence is advertised on the network.

**Stopped:** The device's presence is not advertised on the network.

Example:

```
xStatus NetworkServices UPnP Status
*s NetworkServices UPnP Status: Running
** end
```

## Peripherals status

### xStatus Peripherals ConnectedDevice [n] DRAM

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the peripheral device's memory size. Doesn't apply to Touch 10 and cameras.

Value space of the result returned:

*Integer*

The memory size in GByte.

Example:

```
xStatus Peripherals ConnectedDevice 1003 DRAM
*s Peripherals ConnectedDevice 1003 DRAM: 2
** end
```

### xStatus Peripherals ConnectedDevice [n] HardwareInfo

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows hardware information about connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 HardwareInfo
*s Peripherals ConnectedDevice 1007 HardwareInfo: "1122330-0"
** end
```

### xStatus Peripherals ConnectedDevice [n] ID

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the MAC-address of the connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 ID
*s Peripherals ConnectedDevice 1007 ID: "00:10:20:20:be:21"
** end
```

## xStatus Peripherals ConnectedDevice [n] Location

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

For devices that support having a Room Navigator attached, this shows its location. A Room Navigator is often located within the room but can also be placed outside the room to facilitate room booking.

Value space of the result returned:

*InsideRoom/OutsideRoom/NotSet*

**InsideRoom:** The Room Navigator is in the same room as the video device.

**OutsideRoom:** The Room Navigator is outside the room.

**NotSet:** Information about the location of the Room Navigator is not provided.

Example:

```
xStatus Peripherals ConnectedDevice 1007 Location
*s Peripherals ConnectedDevice 1007 Location: InsideRoom
** end
```

## xStatus Peripherals ConnectedDevice [n] Model

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

This status shows whether the connected Room Navigator is the table stand version or the wall mount version.

Value space of the result returned:

*TableStand/WallMount*

Example:

```
xStatus Peripherals ConnectedDevice 1007 Model
*s Peripherals ConnectedDevice 1007 Model: WallMount
** end
```

## xStatus Peripherals ConnectedDevice [n] Name

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the product name of connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 Name"
*s Peripherals ConnectedDevice 1007 Name: "Cisco Room Navigator"
** end
```

## xStatus Peripherals ConnectedDevice [n] NetworkAddress

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the network address of connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 NetworkAddress
*s Peripherals ConnectedDevice 1004 NetworkAddress: "192.0.1.20"
** end
```

## xStatus Peripherals ConnectedDevice [n] Role

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

This status shows whether the connected Room Navigator is set up as a controller (standard user interface), a scheduler (room booking device), or if it's running a persistent web app.

Value space of the result returned:

*Controller/NotSet/PersistentWebApp/Scheduler*

Example:

```
xStatus Peripherals ConnectedDevice 1007 Role
*s Peripherals ConnectedDevice 1007 Role: Controller
** end
```

## xStatus Peripherals ConnectedDevice [n] RoomAnalytics AirQuality Index

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the air quality index as reported by the Room Navigator with the specified device id. The values are as defined by the German Federal Environmental Agency (UBA).

Value space of the result returned:

*String*

0-1.9: Clean Hygienic Air.

2.0-2.9: Good Air Quality. Ventilation recommended.

3.0-3.9: Noticeable Comfort Concerns. Not recommended for exposure longer than 12 months. Ventilation Required.

4.0-4.9: Significant Comfort Issues. Not recommended for exposure longer than 1 month. Refresh air when possible. Increase ventilation.

5.0 and above: Unacceptable Conditions.

Example:

```
xStatus Peripherals ConnectedDevice 1007 RoomAnalytics AirQuality Index
*s Peripherals ConnectedDevice 1007 RoomAnalytics AirQuality Index: "1.3"
** end
```

## xStatus Peripherals ConnectedDevice [n] RoomAnalytics AmbientTemperature

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the ambient temperature as reported by the Room Navigator with the specified device id.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 RoomAnalytics AmbientTemperature
*s Peripherals ConnectedDevice 1007 RoomAnalytics AmbientTemperature: "20.7"
** end
```

## xStatus Peripherals ConnectedDevice [n] RoomAnalytics RelativeHumidity

*Applies to: All products*

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the relative humidity as reported by the Room Navigator with the specified device id.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 RoomAnalytics RelativeHumidity
*s Peripherals ConnectedDevice 1007 RoomAnalytics RelativeHumidity: 26
** end
```

## xStatus Peripherals ConnectedDevice [n] Security Certificates LastSynced

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Returns the last time that certificates were synchronized between the device and a connected Room Navigator. Refer to the Peripherals Security Certificates SyncToPeripherals Enabled configuration.

The format of the returned string is: YYYY-MM-DDThh:mm:ss

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1 Security Certificates LastSynced
*s Peripherals ConnectedDevice 1003 Security Certificates LastSynced:
"2023-11-08T01:00:04"
** end
```



### xStatus Peripherals ConnectedDevice [n] SerialNumber

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the serial number of a connected peripheral device, for example a touch controller.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1001 SerialNumber
*s Peripherals ConnectedDevice 1001 SerialNumber: "ABC123..."
** end
```

### xStatus Peripherals ConnectedDevice [n] SoftwareInfo

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows information of the software version running on the connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Peripherals ConnectedDevice 1007 SoftwareInfo
*s Peripherals ConnectedDevice 1007 SoftwareInfo: "TI7.2.0"
** end
```

### xStatus Peripherals ConnectedDevice [n] Status

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows peripheral devices that are currently connected to the video device.

Value space of the result returned:

*Connected/ResponseTimedOut*

Example:

```
xStatus Peripherals ConnectedDevice 1001 Status
*s Peripherals ConnectedDevice 1001 Status: Connected
** end
```

### xStatus Peripherals ConnectedDevice [n] Type

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the type of a peripheral that is connected to the video device.

Note: The Precision 60 and Quad cameras returns the value Camera. A SpeakerTrack 60 camera returns the value SpeakerTracker. Only recognized Cisco headsets returns the value Headset.

Value space of the result returned:

*AudioAmplifier/AudioMicrophone/Byod/Camera/ControlSystem/Headset/InputDevice/Other/PersistentWebApp/RoomScheduler/SpeakerTrack/TouchPanel*

The type of peripheral. The Precision 60 and Quad cameras returns the value Camera. A SpeakerTrack 60 camera returns the value SpeakerTracker. Only recognized Cisco headsets return the value Headset.

Example:

```
xStatus Peripherals ConnectedDevice 1001 Type
*s Peripherals ConnectedDevice 1001 Type: TouchPanel
** end
```

### xStatus Peripherals ConnectedDevice [n] UpgradeFailureReason

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows that a connected device has failed during an upgrade and provides a reason.

Value space of the result returned:

*String*

Describes the reason for the upgrade failure.

Example:

```
xStatus Peripherals ConnectedDevice 1001 UpgradeFailureReason
*s Peripherals ConnectedDevice 1001 UpgradeFailureReason: "[c:404] 'HTTP 404'"
** end
```

## xStatus Peripherals ConnectedDevice [n] UpgradeStatus

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the status of the previous software upgrade on the currently connected peripherals.

Value space of the result returned:

*Downloading/Failed/Installing/InstallationReady/None/Succeeded/Rebooting/Retrying/Aborted/Paused*

Example:

```
xStatus Peripherals ConnectedDevice 1001 UpgradeStatus
*s Peripherals ConnectedDevice 1001 UpgradeStatus: Retrying
** end
```

## xStatus Peripherals ConnectedDevice [n] UpgradeURL

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the upgrade URL for the connected device.

Value space of the result returned:

*String*

Specifies the full URL.

Example:

```
xStatus Peripherals ConnectedDevice 1001 UpgradeURL
*s Peripherals ConnectedDevice 1001 UpgradeURL: ""
** end
```

## xStatus Peripherals PinPairing PinVisibleOnScreen

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether the PIN is visible on the screen, if pairing is in progress.

Value space of the result returned:

*False/True*

**True:** The PIN is visible on the screen. **False:** The PIN is not being displayed on the screen.

Example:

```
xStatus Peripherals PinPairing PinVisibleOnScreen
*s Peripherals PinPairing PinVisibleOnScreen: True
** end
```

## xStatus Peripherals PinPairing RetriesRemaining

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

As specified in Peripherals Pairing PinPairing Start, the user may be allowed to retry after an invalid PIN is entered. This status shows how many retries are remaining.

Value space of the result returned:

*Integer*

Example:

```
xStatus Peripherals PinPairing RetriesRemaining
*s Peripherals PinPairing RetriesRemaining: 2
** end
```

## xStatus Peripherals PinPairing TimeRemaining

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

As specified in Peripherals Pairing PinPairing Start, the PIN pairing process will be active for a specific duration. This shows how much longer the pairing process will be active, in minutes.

Value space of the result returned:

*Integer*

Example:

```
xStatus Peripherals PinPairing TimeRemaining
*s Peripherals PinPairing TimeRemaining: 278
** end
```

## xStatus Peripherals Stylus [n] Presence

*Applies to: BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether a stylus is present or not.

Value space of the result returned:

*NotPresent/Present*

**Present:** The stylus is present.

**NotPresent:** The stylus is not present

Example:

```
xStatus Peripherals Stylus 1 Presence
*s Peripherals Stylus 1 Presence: NotPresent
** end
```

## Provisioning status

### xStatus Provisioning CUCM Customization Checksum

*Applies to: All products*

Requires user role: ADMIN, USER

You can provision custom elements to multiple devices by using a customization template (a backup file). This status reports the checksum of the last customization template that has been uploaded to the device. Also see the xCommand Provisioning Service Fetch command.

Value space of the result returned:

*String*

The checksum of the customization template.

Example:

```
xStatus Provisioning CUCM Customization Checksum
*s Provisioning CUCM Customization Checksum: "633e163e2694b89ce37103b244
8c36a..."
** end
```

### xStatus Provisioning CUCM ExtensionMobility Enabled

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if Extension Mobility is enabled for a CUCM registered device.

Value space of the result returned:

*True/False*

Example:

```
xStatus Provisioning CUCM ExtensionMobility Enabled
*s Provisioning CUCM ExtensionMobility Enabled: False
** end
```

### xStatus Provisioning CUCM ExtensionMobility LastLoggedInUserId

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the user id that was last signed in to the device. Only in use if CUCM Extension Mobility is enabled, and CUCM is configured to remember the last signed in user on a device.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning CUCM ExtensionMobility LastLoggedInUserId
*s Provisioning CUCM ExtensionMobility LastLoggedInUserId: "User 1"
** end
```

### xStatus Provisioning CUCM ExtensionMobility LoggedIn

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if someone is signed in to Extension Mobility or not.

Value space of the result returned:

*True/False*

Example:

```
xStatus Provisioning CUCM ExtensionMobility LoggedIn
*s Provisioning CUCM ExtensionMobility LoggedIn: False
** end
```

### xStatus Provisioning Reason

*Applies to: All products*

Requires user role: ADMIN, USER

This status provides information about the reason or cause behind the provisioning status of a device. The string value provides insights into the specific conditions, errors, or events that led to the provisioning status being set to its current state.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Reason
*s Provisioning Reason: ""
** end
```

## xStatus Provisioning RoomType

*Applies to:* RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Specifies the room type setup configured for this device.

Value space of the result returned:

*Briefing/Classroom/PresenterAndAudience/Standard*

**Briefing:** This device is using the briefing room setup.

**Classroom:** This device is using the classroom setup.

**PresenterAndAudience:** This device is using the presenter and audience setup.

**Standard:** This device is using the default room setup.

Example:

```
xStatus Provisioning RoomType
*s Provisioning RoomType: PresenterAndAudience
** end
```

## xStatus Provisioning Server

*Applies to:* All products

Requires user role: ADMIN, USER

This status provides information about the server responsible for handling the provisioning process. The string value identifies the provisioning server associated with the device.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Server
*s Provisioning Server: "192.0.2.0"
** end
```

## xStatus Provisioning Software Current CompletedAt

*Applies to:* All products

Requires user role: ADMIN, USER

Shows date and time for when the current software upgrade was completed.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software Current CompletedAt
*s Provisioning Software Current CompletedAt: "2011-06-07T07:20:03Z"
** end
```

## xStatus Provisioning Software Current URL

*Applies to:* All products

Requires user role: ADMIN, USER

Shows the URL that the current software was uploaded from.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software Current URL
*s Provisioning Software Current URL: "http://.../s52020ce8_0_0.pkg"
** end
```

## xStatus Provisioning Software Current VersionId

*Applies to:* All products

Requires user role: ADMIN, USER

Shows the version ID of the current software.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software Current VersionId
*s Provisioning Software Current VersionId: "s52020ce8_0_0.pkg"
** end
```

## xStatus Provisioning Software UpgradeStatus LastChange

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the date and time for the latest software upgrade.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software UpgradeStatus LastChange
*s Provisioning Software UpgradeStatus LastChange: "2011-06-07T07:20:03Z"
** end
```

## xStatus Provisioning Software UpgradeStatus Message

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the system message for the software upgrade.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software UpgradeStatus Message
*s Provisioning Software UpgradeStatus Message: ""
** end
```

## xStatus Provisioning Software UpgradeStatus Phase

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the phase of the software upgrade.

Value space of the result returned:

*None/AboutToInstallUpgrade/DownloadDone/DownloadPaused/DownloadPending/  
Downloading/Installing/InstallingPeripherals/Postponed/UpgradingPeripherals*

Example:

```
xStatus Provisioning Software UpgradeStatus Phase
*s Provisioning Software UpgradeStatus Phase: None
** end
```

## xStatus Provisioning Software UpgradeStatus SessionId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the ID of the session for the software upgrade.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software UpgradeStatus SessionId
*s Provisioning Software UpgradeStatus SessionId: ""
** end
```

## xStatus Provisioning Software UpgradeStatus Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the software upgrade.

Value space of the result returned:

*None/InProgress/Failed/InstallationFailed/Succeeded*

Example:

```
xStatus Provisioning Software UpgradeStatus Status
*s Provisioning Software UpgradeStatus Status: None
** end
```

## xStatus Provisioning Software UpgradeStatus Urgency

*Applies to: All products*

Requires user role: ADMIN, USER

Shows how urgently the software needs to be upgraded.

Value space of the result returned:

*Low/Medium/Critical*

Specifies the urgency of the software upgrade.

Example:

```
xStatus Provisioning Software UpgradeStatus Urgency
*s Provisioning Software UpgradeStatus Urgency: Low
** end
```

## xStatus Provisioning Software UpgradeStatus URL

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the URL that the new software currently is being uploaded and installed from.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software UpgradeStatus URL
*s Provisioning Software UpgradeStatus URL: "http://.../s52020ce8_0_0.pkg"
** end
```

## xStatus Provisioning Software UpgradeStatus VersionId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the version ID of the software currently being uploaded and installed.

Value space of the result returned:

*String*

Example:

```
xStatus Provisioning Software UpgradeStatus VersionId
*s Provisioning Software UpgradeStatus VersionId: "s52010ce8_0_0.pkg"
** end
```

## xStatus Provisioning Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the provisioning.

Value space of the result returned:

*Failed/AuthenticationFailed/Provisioned/Idle/NeedConfig/ConfigError*

**Failed:** The provisioning failed.

**AuthenticationFailed:** The authentication failed.

**Provisioned:** The device is provisioned.

**Idle:** The provisioning is not active.

**NeedConfig:** The device needs to be configured.

**ConfigError:** An error occurred during configuration.

Example:

```
xStatus Provisioning Status
*s Provisioning Status: Provisioned
** end
```

## xStatus Provisioning WebexCalling Status

*Applies to: All products*

Requires user role: ADMIN, USER

Not applicable in this software release.

Value space of the result returned:

*AuthenticationFailed/ConfigError/Failed/Idle/NeedConfig/Provisioned/Provis*

## Proximity status

### xStatus Proximity Services Availability

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether proximity services are available on the device.

Value space of the result returned:

*Available, Deactivated, Disabled*

**Available:** Proximity mode has been enabled with the command xConfiguration Proximity Mode and one or more of the proximity services have been enabled with xConfiguration Proximity Services commands.

**Deactivated:** Proximity services have been deactivated with the command xCommand Proximity Services Deactivate.

**Disabled:** Proximity mode has been disabled with xConfiguration Proximity Mode, or none of the services have been enabled with the xConfiguration Proximity Services commands.

Example:

```
xStatus Proximity Services Availability
*s Proximity Services Availability: Disabled
** end
```

## RoomAnalytics status

### xStatus RoomAnalytics AmbientNoise Level A

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

The device can be set up to estimate the stationary ambient noise level in the room (refer to the RoomAnalytics AmbientNoiseEstimation Mode setting). The result is reported in this status.

The value is an A-weighted decibel value (dBA). The value is only a relative value and should not be treated as an absolute SPL (Sound Pressure Level) value. Especially not for third-party microphones that the device doesn't know the sensitivity of.

Value space of the result returned:

*Integer*

The stationary ambient noise level in dBA.

Example:

```
xStatus RoomAnalytics AmbientNoise Level A
*s RoomAnalytics AmbientNoise Level A: 30
** end
```

### xStatus RoomAnalytics AmbientTemperature

*Applies to: DeskPro DeskMini Desk BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the ambient temperature for the device.

Value space of the result returned:

*String*

Example:

```
xStatus RoomAnalytics AmbientTemperature
*s RoomAnalytics AmbientTemperature: "20.7"
** end
```

## xStatus RoomAnalytics Engagement CloseProximity

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

The device can detect the presence of people at close proximity.

This status depends on the camera running. To use, we recommend turning on the configuration "RoomAnalytics PeopleCountOutOfCall".

This will cause the camera to turn on periodically and CloseProximity will be updated.

If not, the status will only be updated in conversation or when self-view is on.

Value space of the result returned:

*False/True*

**False:** The status will be False when the camera is not running or when the conditions for True are not met.

**True:** The status becomes True if at least one person meets these criteria:

- Less than 1 meter from the camera
- Has face facing camera
- Standing relatively still

The status goes from True to False again if the person goes further than 1.5 meters from the camera or leaves the camera view.

Example:

```
xStatus RoomAnalytics Engagement
*s RoomAnalytics Engagement CloseProximity: False
** end
```

## xStatus RoomAnalytics PeopleCount Capacity

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the expected maximum number of people using the device.

Value space of the result returned:

*Integer*

Example:

```
xStatus RoomAnalytics PeopleCount Capacity
*s RoomAnalytics PeopleCount Capacity: 1
** end
```

## xStatus RoomAnalytics PeopleCount Current

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the number of people in the room. The device uses head detection to find the correct number. If there are objects or pictures in the room that can be detected as heads, these might be counted. The call must have a duration of minimum two minutes in order to get a reliable average. The device will not keep record of who was in the room, only the average number of people that were detected.

When the device is in standby, or if the feature is turned off, the number returned is -1.

For Codec Plus, this status applies if you have a Quad Camera. For Codec Pro, this status applies if you have a Quad Camera or a SpeakerTrack 60 camera.

Value space of the result returned:

*Integer*

Example:

```
xStatus RoomAnalytics PeopleCount Current
*s RoomAnalytics PeopleCount Current: 2
** end
```



## xStatus RoomAnalytics PeoplePresence

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

This status reports if the device is detecting people in the room. Depending on the RoomAnalytics PeoplePresence Input Ultrasound and RoomAnalytics PeoplePresence Input HeadDetector settings, the result is based on either ultrasound, head detection, or both.

To get the most accurate presence status, make sure that RoomAnalytics PeopleCountOutOfCall is set to On. The device will not keep record of who was in the room, only whether there are people present. When someone enters the room, the status is updated immediately. After the room becomes empty, it may take up to two minutes for the status to change.

Value space of the result returned:

*Yes/No/Unknown*

**No:** The device hasn't detected people in the room.

**Yes:** The device has detected people in the room.

**Unknown:** The device is not able to determine the people presence status. Typically, this will be the case if the RoomAnalytics PeoplePresenceDetector setting is Off.

Example:

```
xStatus RoomAnalytics PeoplePresence
*s RoomAnalytics PeoplePresence: Yes
** end
```

## xStatus RoomAnalytics RelativeHumidity

*Applies to: DeskPro DeskMini Desk BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the relative humidity for the device.

Value space of the result returned:

*Integer*

Example:

```
xStatus RoomAnalytics RelativeHumidity
*s RoomAnalytics RelativeHumidity: 26
** end
```

## xStatus RoomAnalytics ReverberationTime LastRun

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the time and date that the most recent reverberation analytics were measured. To enable ReverberationTime analytics, set the RoomAnalytics ReverberationTime Mode setting to On.

Value space of the result returned:

*String*

Example:

```
xStatus RoomAnalytics ReverberationTime LastRun
*s RoomAnalytics ReverberationTime LastRun: "2021-04-27T14:26:19Z"
** end
```

## xStatus RoomAnalytics ReverberationTime Middle RT60

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the middle RT60, which is the average of the 500 Hz and 1000 Hz value. This is reported in milliseconds. To enable ReverberationTime analytics, set the RoomAnalytics ReverberationTime Mode setting to On.

Value space of the result returned:

*Integer*

Example:

```
xStatus RoomAnalytics ReverberationTime Middle RT60
*s RoomAnalytics ReverberationTime Middle RT60: 200
** end
```

## xStatus RoomAnalytics ReverberationTime Octaves [n] CenterFrequency

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the center frequency for each octave band from 125 Hz up to 4000 Hz.

To enable reverberation time analytics, set the RoomAnalytics ReverberationTime Mode setting to On.

Value space of the result returned:

*Integer*

The center frequency in Hz.

Example:

```
xStatus RoomAnalytics ReverberationTime Octaves CenterFrequency
*s RoomAnalytics ReverberationTime Octaves 1 CenterFrequency: 125
*s RoomAnalytics ReverberationTime Octaves 2 CenterFrequency: 250
*s RoomAnalytics ReverberationTime Octaves 3 CenterFrequency: 500
*s RoomAnalytics ReverberationTime Octaves 4 CenterFrequency: 1000
*s RoomAnalytics ReverberationTime Octaves 5 CenterFrequency: 2000
*s RoomAnalytics ReverberationTime Octaves 6 CenterFrequency: 4000
** end
```

## xStatus RoomAnalytics ReverberationTime Octaves [n] RT60

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the RT60 values for each octave band from 125 Hz up to 4000 Hz.

To enable reverberation time analytics, set the RoomAnalytics ReverberationTime Mode setting to On.

Value space of the result returned:

*Integer*

The RT60 values in milliseconds.

Example:

```
xStatus RoomAnalytics ReverberationTime Octaves RT60
*s RoomAnalytics ReverberationTime Octaves 1 RT60: 310
*s RoomAnalytics ReverberationTime Octaves 2 RT60: 270
*s RoomAnalytics ReverberationTime Octaves 3 RT60: 180
*s RoomAnalytics ReverberationTime Octaves 4 RT60: 210
*s RoomAnalytics ReverberationTime Octaves 5 RT60: 200
*s RoomAnalytics ReverberationTime Octaves 6 RT60: 190
** end
```

## xStatus RoomAnalytics RoomInUse

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether the room is in use. The device bases its report on people presence information (based on people count or ultrasound, dependent on how the device is set up), the call state (any type of call), and the sharing state (any sharing method, for example via cable, Airplay, Miracast, or remote sharing).

Value space of the result returned:

*False/True*

*False:* The room is not in use.

*True:* The room is in use.

Example:

```
xStatus RoomAnalytics RoomInUse
*s RoomAnalytics RoomInUse: True
** end
```

## xStatus RoomAnalytics Sound Level A

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

If the RoomAnalytics AmbientNoiseEstimation Mode setting is On, the device will in addition to the ambient noise also measure the sound level in the room. The result is reported in this status every 10th second.

The value is an A-weighted averaged sound level in decibel (dBA). The value is only a relative value and should not be treated as an absolute SPL (Sound Pressure Level) value. Especially not for third-party microphones that the device doesn't know the sensitivity of.

Value space of the result returned:

*Integer*

The average sound level in dBA.

Example:

```
xStatus RoomAnalytics Sound Level A
*s RoomAnalytics Sound Level A: 33
** end
```

## xStatus RoomAnalytics T3Alarm Detected

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

When T3 alarm detection is enabled (RoomAnalytics T3AlarmDetection Mode is set to On), if the system detects an alarm this status will switch from False to True. The status switches back to False when no alarm has been detected for the number of seconds defined in the RoomAnalytics T3AlarmDetection Timeout setting.

Value space of the result returned:

*False/True*

**False:** No T3 alarm is detected.

**True:** A T3 alarm is detected.

Example:

```
xStatus RoomAnalytics T3Alarm
*s RoomAnalytics T3Alarm Detected: True
** end
```

## xStatus RoomAnalytics UltrasoundPresence

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

This status reports if the device detects people in the room based on ultrasound. The result is independent of the RoomAnalytics PeoplePresence Input Ultrasound setting being On or Off.

Value space of the result returned:

*No/Yes/Unknown*

**No:** The device hasn't detected people in the room.

**Yes:** The device has detected people in the room.

**Unknown:** The device is not able to determine the people presence status. Typically, this happens during boot up, before the device is ready to determine the actual presence.

Example:

```
xStatus RoomAnalytics UltrasoundPresence
*s RoomAnalytics UltrasoundPresence: Yes
** end
```

## RoomPreset status

### xStatus RoomPreset [n] Defined

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if a camera preset is stored at this position.

Value space of the result returned:

*True/False*

Example:

```
xStatus RoomPreset 1 Defined
*s RoomPreset 1 Defined: True
** end
```

### xStatus RoomPreset [n] Description

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the configured name for the specific preset.

Value space of the result returned:

*String*

Example:

```
xStatus RoomPreset 1 Description
*s RoomPreset 1 Description: "Zoom in"
** end
```

### xStatus RoomPreset [n] Type

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the camera preset type.

Value space of the result returned:

*All/Camera*

Example:

```
xStatus RoomPreset 1 Type
*s RoomPreset 1 Type: All
** end
```

## Security status

### xStatus Security Persistency CallHistory

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether call history logging is set to persistent or non-persistent mode. Persistent is the default mode.

Value space of the result returned:

*NonPersistent/Persistent*

Example:

```
xStatus Security Persistency CallHistory
*s Security Persistency CallHistory: Persistent
** end
```

### xStatus Security Persistency Configurations

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether all the device's configurations are set to persistent or non-persistent mode. Persistent is the default mode.

Value space of the result returned:

*NonPersistent/Persistent*

Example:

```
xStatus Security Persistency Configurations
*s Security Persistency Configurations: Persistent
** end
```

### xStatus Security Persistency DHCP

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether DHCP logging is set to persistent or non-persistent mode. Persistent is the default mode.

Value space of the result returned:

*NonPersistent/Persistent*

Example:

```
xStatus Security Persistency DHCP
*s Security Persistency DHCP: Persistent
** end
```

### xStatus Security Persistency InternalLogging

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether internal logging is set to persistent or non-persistent mode. Persistent is the default mode.

Value space of the result returned:

*NonPersistent/Persistent*

Example:

```
xStatus Security Persistency InternalLogging
*s Security Persistency InternalLogging: Persistent
** end
```

### xStatus Security Persistency LocalPhonebook

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether local phone book is set to persistent or non-persistent mode. Persistent is the default mode.

Value space of the result returned:

*NonPersistent/Persistent*

Example:

```
xStatus Security Persistency LocalPhonebook
*s Security Persistency LocalPhonebook: Persistent
** end
```

## Sensors status

### xStatus Sensors Radar Mode

*Applies to: BoardPro*

Requires user role: ADMIN, USER

Reports whether the device is transmitting radar signals. Refer to the Sensors Radar Mode setting for more information.

Value space of the result returned:

*Off/Motion*

**Off:** The device doesn't transmit radar signals.

**Motion:** The device transmits radar signals for detecting motion close to the device.

Example:

```
xStatus Sensors Radar Mode
*s Sensors Radar Mode: Motion
** end
```

## SIP status

### xStatus SIP AlternateURI Alias [n] URI

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*String*

Example:

```
xStatus SIP AlternateURI Alias
*s SIP AlternateURI Alias URI: ""
** end
```

### xStatus SIP AlternateURI Primary URI

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*String*

Example:

```
xStatus SIP AlternateURI Primary
*s SIP AlternateURI Primary URI: ""
** end
```

### xStatus SIP Authentication

*Applies to: All products*

Requires user role: ADMIN, USER

Shows which authentication mechanism is used when registering to the SIP Proxy Server.

Value space of the result returned:

*Digest/Off*

**Digest:** Uses the Digest access authentication method, as specified by RFC 2069.

**Off:** No authentication mechanism is used.

Example:

```
xStatus SIP Authentication
*s SIP Authentication: Off
** end
```

## xStatus SIP CallForward DisplayName

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the URI that is displayed on the user interface for the forwarded call.

Value space of the result returned:

*String*

Example:

```
xStatus SIP CallForward DisplayName
*s SIP CallForward DisplayName: ""
** end
```

## xStatus SIP CallForward Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates whether the call forward mode for SIP is set to on or off.

Value space of the result returned:

*On/Off*

Example:

```
xStatus SIP CallForward Mode
*s SIP CallForward Mode: Off
** end
```

## xStatus SIP CallForward URI

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates the address the incoming calls are directed to when call forward mode is set on.

Value space of the result returned:

*String*

Example:

```
xStatus SIP CallForward URI
*s SIP CallForward URI: ""
** end
```

## xStatus SIP Mailbox MessagesWaiting

*Applies to: All products*

Requires user role: ADMIN, USER

Indicates how many new messages are in the mailbox.

Value space of the result returned:

*Integer*

Example:

```
xStatus SIP Mailbox MessagesWaiting
*s SIP Mailbox MessagesWaiting: 0
** end
```

## xStatus SIP Mailbox URI

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the URI for your SIP mailbox.

Value space of the result returned:

*String*

Example:

```
xStatus SIP Mailbox URI
*s SIP Mailbox URI: "12345678"
** end
```

## xStatus SIP Proxy [n] Address

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the address of the SIP Proxy that the device communicates with.

Value space of the result returned:

*String*

Example:

```
xStatus SIP Proxy 1 Address
*s SIP Proxy 1 Address: "192.0.2.50"
** end
```

## xStatus SIP Proxy [n] Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the communication between the device and the SIP Proxy server.

Value space of the result returned:

*Active/AuthenticationFailed/DNSFailed/Off/Timeout/UnableTCP/UnableTLS/Unknown*

**Active:** The communication between the device and the SIP Proxy is active.

**DNSFailed:** The attempt to establish communication to the DNS server failed.

**Off:** There is no communication between the device and the SIP Proxy.

**Timeout:** The attempt to establish communication to the SIP Proxy timed out.

**UnableTCP:** The device is unable to use TCP as the transport method.

**UnableTLS:** The device is unable to use TLS as the transport method.

**Unknown:** The status of the communication is not known.

**AuthenticationFailed:** Wrong username or password.

Example:

```
xStatus SIP Proxy 1 Status
*s SIP Proxy 1 Status: Active
** end
```

## xStatus SIP Registration [n] Authentication

*Applies to: All products*

Requires user role: ADMIN, USER

Shows which authentication mechanism is used when registering to the SIP Proxy Server.

Value space of the result returned:

*Digest/Off*

**Digest:** Uses the Digest access authentication method, as specified by RFC 2069.

**Off:** No authentication mechanism is used.

Example:

```
xStatus SIP Registration 1 Authentication
*s SIP Registration 1 Authentication: Off
** end
```

## xStatus SIP Registration [n] Reason

*Applies to: All products*

Requires user role: ADMIN, USER

Shows a message to explain the reason why the SIP registration failed.

Value space of the result returned:

*String*

Example:

```
xStatus SIP Registration 1 Reason
*s SIP Registration 1 Reason: "404 Not Found"
** end
```

## xStatus SIP Registration [n] Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the status of the registration to the SIP Proxy Server.

Value space of the result returned:

*Deregister/Failed/Inactive/Registered/Registering*

**Deregister:** The device is in the process of de-registering to the SIP Proxy.

**Failed:** The device failed to register to the SIP Proxy.

**Inactive:** The device is not registered to any SIP Proxy.

**Registered:** The device is registered to the SIP Proxy.

**Registering:** The device is in the process of registering to the SIP Proxy.

Example:

```
xStatus SIP Registration 1 Status
*s SIP Registration 1 Status: Registered
** end
```

## xStatus SIP Registration [n] URI

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the URI used for registration to the SIP Proxy server.

Value space of the result returned:

*String*

Example:

```
xStatus SIP Registration 1 URI
*s SIP Registration 1 URI: "firstname.lastname@company.com"
** end
```

## xStatus SIP Secure

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the encryption status of the signaling with the SIP Proxy server.

Value space of the result returned:

*True/False*

Example:

```
xStatus SIP Secure
*s SIP Secure: True
** end
```

## xStatus SIP Verified

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether or not the SSL certificate of the server that the device tries to register to is included in the device's trusted CA-list. The server is typically a Cisco VCS or CUCM.

Value space of the result returned:

*True/False*

**True:** The server's SIP certificate is checked against the trusted CA-list on the device and found valid. Additionally, the fully qualified domain name of the server matches the valid certificate.

**False:** A TLS connection is not set up because the SIP certificate verification failed or the domain name did not match. Note that the status also returns False when TLS is not used (xConfiguration SIP DefaultTransport not set to TLS) or certificate verification is switched off (SIP TlsVerify: Off. This setting is accessible through your products web interface).

Example:

```
xStatus SIP Verified
*s SIP Verified: False
** end
```

## Standby status

### xStatus Standby Level

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskMini Desk BoardPro BoardProG2*  
*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

There are several levels of standby mode, each providing a different power consumption profile.

This status reports the current level of standby mode for the device.

Value space of the result returned:

*None/Standby/Networked/DisplayOff*

**None:** The device is not in standby mode.

**DisplayOff:** The device is in the first stage of standby, the display off mode.

**Networked:** The device is in the second stage of standby, networked standby. The device is still accessible through the network.

**Standby:** For future use

Example:

```
xStatus Standby Level
*s Standby Level: DisplayOff
** end
```

### xStatus Standby State

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows whether the device is in standby mode.

Value space of the result returned:

*Standby/EnteringStandby/Halfwake/Off*

**Standby:** The device is in standby state.

**EnteringStandby:** The device is entering the standby state.

**Halfwake:** The device is in the halfwake state.

Example:

```
xStatus Standby State
*s Standby State: Off
** end
```



## SystemUnit status

### xStatus SystemUnit BroadcastName

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the name of the video device as it will appear in a sender device's scan list for services such as Miracast and Bluetooth.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit BroadcastName
*s SystemUnit BroadcastName: "Board Room Codec Pro"
** end
```

### xStatus SystemUnit Extensions Microsoft Supported

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2*

Requires user role: ADMIN, USER

Show if the Microsoft extension is supported.

Value space of the result returned:

*False/True*

**False:** The Microsoft extension is not supported.

**True:** The Microsoft extension is supported.

Example:

```
xStatus SystemUnit Extensions Microsoft Supported
*s SystemUnit Extensions Microsoft Supported: True
** end
```

### xStatus SystemUnit DeveloperPreview Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether developer preview mode is On or Off. This is controlled by the SystemUnit DeveloperPreview Activate and SystemUnit DeveloperPreview Activate commands.

Value space of the result returned:

*On/Off*

Example:

```
xStatusSystemUnit DeveloperPreview Mode
*s SystemUnit DeveloperPreview Mode: Off
** end
```

### xStatus SystemUnit Hardware DRAM

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the device's memory size (in GByte).

Value space of the result returned:

*Integer*

Example:

```
xStatus SystemUnit Hardware DRAM
*s SystemUnit Hardware DRAM: 8
** end
```

### xStatus SystemUnit Hardware HasWifi

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether or not the device has wireless internet (Wi-Fi) capability.

Value space of the result returned:

*False/True*

Example:

```
xStatus SystemUnit Hardware HasWiFi
*s SystemUnit Hardware HasWiFi: True
** end
```

### xStatus SystemUnit Hardware MainBoard Revision

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the revision of the device's main board.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Hardware MainBoard Revision
*s SystemUnit Hardware MainBoard Revision: "D"
** end
```

### xStatus SystemUnit Hardware Module CompatibilityLevel

*Applies to: All products*

Requires user role: ADMIN, USER

The devices have different sets of compatibility levels. Please check the release note to find the compatibility levels and minimum software version required for your product.

Value space of the result returned:

*String*

Shows the compatibility level for the device.

Example:

```
xStatus SystemUnit Hardware Module CompatibilityLevel
*s SystemUnit Hardware Module CompatibilityLevel: 1
** end
```

### xStatus SystemUnit Hardware Module DeviceId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows an identifier that uniquely identifies the physical device. It doesn't change upon factory reset. It's mainly used by the Webex services.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Hardware Module DeviceId
*s SystemUnit Hardware Module DeviceId: "01234567-89ab-cdef-0123-456789abcdef"
** end
```

### xStatus SystemUnit Hardware Module SerialNumber

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the serial number of the hardware module in the device.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Hardware MainBoard SerialNumber
*s SystemUnit Hardware MainBoard SerialNumber: "FOC99999999"
** end
```

### xStatus SystemUnit Hardware Monitoring Fan [n] Status

*Applies to: All products*

Requires user role: ADMIN, USER

The feedback shows the speed (rpm) for the specified fan.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Hardware Monitoring Fan 1 Status
*s SystemUnit Hardware Monitoring Fan 1 Status: "locked on 1096 rpm"
** end
```

### xStatus SystemUnit Hardware Monitoring Temperature Status

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the current temperature alarm level. "High" is meant to raise attention to the temperature trend since the operating temperature is higher than normal. At "Critical" level the device will shut down processes and processors to prevent any damage to the device. To avoid high operating temperatures, make sure the device is operating in a ventilated environment.

Value space of the result returned:

*Unknown, Normal, High, Critical*

Example:

```
xStatus SystemUnit Hardware Monitoring Temperature Status
*s SystemUnit Hardware Monitoring Temperature Status: Normal
** end
```

## xStatus SystemUnit Hardware UDI

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the unique device identifier (UDI).

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Hardware UDI
*s SystemUnit Hardware UDI: "XXXXXXXXXXXX XXXXXXXXXXXXX"
** end
```

## xStatus SystemUnit Hardware USBC [n] Connected

*Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the connection status of the specified USB-C port.

Value space of the result returned:

*False/True*

Example:

```
xStatus SystemUnit Hardware USBC 1 Connected
*s SystemUnit Hardware USBC 1 Connected: False
** end
```

## xStatus SystemUnit LastShutdownReason

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the reason for the last shutdown of the device.

Value space of the result returned:

*ConvertToCloud/DisableHdmiOutput/EnableHdmiOutput/FactoryReset/FirstBoot/ModifySecurityPersistence/Restart/Shutdown/Standby/Unknown/Upgrade*

Example:

```
xStatus SystemUnit LastShutdownReason
*s SystemUnit LastShutdownReason: Upgrade
** end
```

## xStatus SystemUnit LastShutdownTime

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the date and time for the last shutdown of the device. The format of the returned string is: YYYY-MM-DDThh:mm:ssZ

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit LastShutdownTime
*s SystemUnit LastShutdownTime: "2023-11-09T23:36:01Z"
** end
```

## xStatus SystemUnit Notifications Notification [n] Text

*Applies to: All products*

Requires user role: ADMIN, USER

Lists text related to important system notifications. Notifications are issued, for example when a device was rebooted because of a software upgrade, or when a factory reset has been performed.

All the notifications can be removed from the list by issuing the SystemUnit Notifications RemoveAll command.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Notifications Notification 1 Text
*s SystemUnit Notifications Notification 1 Text: "OK"
** end
```

## xStatus SystemUnit Notifications Notification [n] Type

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the system notification types. Notifications are issued, for example when a device is rebooted because of a software upgrade, or when a factory reset is performed.

All the notifications can be removed from the list by issuing the SystemUnit Notifications RemoveAll command.

Value space of the result returned:

*SoftwareUpgradeOK/SoftwareUpgradeFailed/RebootRequired/Other*

**SoftwareUpgradeOK:** This value is returned after a successful software upgrade.

**SoftwareUpgradeFailed:** This value is returned after a failed software upgrade attempt.

**RebootRequired:** This value is returned when a reboot is required.

**Other:** This value is returned for any other notifications.

Example:

```
xStatus SystemUnit Notifications Notification 1 Type
*s SystemUnit Notifications Notification 1 Type: SoftwareUpgradeOK
** end
```

## xStatus SystemUnit ProductId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the product identity.

Value space of the result returned:

*String*

"Cisco Webex Board 55": Cisco Webex Board 55  
"Cisco Webex Board 55S": Cisco Board 55S (second generation / S series)  
"Cisco Webex Board 70": Cisco Board 70  
"Cisco Webex Board 70S": Cisco Board 70S (second generation / S series)  
"Cisco Webex Board 85S": Cisco Board 85S  
"Cisco Webex Board Pro 55": Cisco Board Pro 55  
"Cisco Webex Board Pro 75": Cisco Board Pro 75  
"Cisco Board Pro 55 G2": Cisco Board Pro 55 G2  
"Cisco Board Pro 75 G2": Cisco Board Pro 75 G2  
"Cisco Webex Codec Plus": Cisco Codec Plus  
"Cisco Webex Codec Pro": Cisco Codec Pro  
"Cisco Webex Desk": Cisco Desk  
"Cisco Webex Desk Mini": Cisco Desk Mini  
"Cisco Webex Desk Pro": Cisco Desk Pro  
"Cisco Webex Room Bar": Cisco Room Bar  
"Cisco Room Bar Pro": Cisco Room Bar Pro  
"Cisco Webex Room Kit": Cisco Room Kit  
"Cisco Room Kit EQ": Cisco Codec EQ  
"Cisco Room Kit EQX": Cisco Room Kit EQX  
"Cisco Webex Room Kit Mini": Cisco Room Kit Mini  
"Cisco Webex Room 55": Cisco Room 55  
"Cisco Webex Room 55 Dual": Cisco Room 55 Dual (based on Codec Plus)  
"Cisco Webex Room 70 Dual": Cisco Room 70 Dual (based on Codec Plus)  
"Cisco Webex Room 70 Dual G2": Cisco Room 70 Dual G2 (based on Codec Pro)  
"Cisco Webex Room 70 Single": Cisco Room 70 Single (based on Codec Plus)  
"Cisco Webex Room 70 Single G2": Cisco Room 70 Single G2 (based on Codec Pro)  
"Cisco Webex Room 70 Panorama": Cisco Room 70 Panorama  
"Cisco Webex Room Panorama": Cisco Room Panorama  
"Cisco Webex Room USB": Cisco Room USB

Example:

```
xStatus SystemUnit ProductId
*s SystemUnit ProductId: "Cisco Room Kit EQ"
** end
```

## xStatus SystemUnit ProductPlatform

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the product platform.

Value space of the result returned:

*String*

```

"Board 55": Cisco Webex Board 55
"Board 55S": Cisco Board 55S (second generation / S series)
"Board 70": Cisco Board 70
"Board 70S": Cisco Board 70S (second generation / S series)
"Board 85S": Cisco Board 85S
"Board Pro 55": Cisco Board Pro 55
"Board Pro 75": Cisco Board Pro 75
"Board Pro 55 G2": Cisco Board Pro 55 G2
"Board Pro 75 G2": Cisco Board Pro 75 G2
"Codec Plus": Cisco Codec Plus
"Codec Pro": Cisco Codec Pro
"Desk": Cisco Desk
"Desk Mini": Cisco Desk Mini
"Desk Pro": Cisco Desk Pro
"Room Bar": Cisco Room Bar
"Room Bar Pro": Cisco Room Bar Pro
"Room Kit": Cisco Room Kit
"Room Kit EQ": Cisco Codec EQ
"Room Kit EQX": Cisco Room Kit EQX
"Room Kit Mini": Cisco Room Kit Mini
"Room 55": Cisco Room 55
"Room 55D": Cisco Room 55 Dual (based on Codec Plus)
"Room 70D": Cisco Room 70 Dual (based on Codec Plus)
"Room 70D G2": Cisco Room 70 Dual G2 (based on Codec Pro)
"Room 70S": Cisco Room 70 Single (based on Codec Plus)
"Room 70S G2": Cisco Room 70 Single G2 (based on Codec Pro)
"Room 70 Panorama": Cisco Room 70 Panorama
"Room Panorama": Cisco Room Panorama
"Room USB": Cisco Room USB

```

Example:

```

xStatus SystemUnit ProductPlatform
*s SystemUnit ProductPlatform: "Room Kit EQ"
** end

```

## xStatus SystemUnit ProductType

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the product type.

Value space of the result returned:

*String*

Example:

```

xStatus SystemUnit ProductType
*s SystemUnit ProductType: "Cisco Codec"
** end

```

## xStatus SystemUnit Software DisplayName

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the name of the software that is installed on the device, as it is displayed in the UI.

Value space of the result returned:

*String*

Example:

```

xStatus SystemUnit Software DisplayName
*s SystemUnit Software DisplayName: "RoomOS 11.4.0.23 9a8e928889e"
** end

```

## xStatus SystemUnit Software Name

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the name of the software that is installed on the device.

Value space of the result returned:

*String*

Example:

```

xStatus SystemUnit Software Name
*s SystemUnit Software Name: "s53300"
** end

```

### xStatus SystemUnit Software OptionKeys AVIntegrator

*Applies to:* RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, USER

Shows if the AVIntegrator option key is installed on the device. Depending on the device, this option key may allow you to connect more Ethernet microphones to the device, and to use the Audio Console application and the full integrator audio API.

Value space of the result returned:

*False/True*

Example:

```
xStatus SystemUnit Software OptionKeys AVIntegrator
*s SystemUnit Software OptionKeys AVIntegrator: True
** end
```

### xStatus SystemUnit Software OptionKeys DeveloperPreview

*Applies to:* All products

Requires user role: ADMIN, INTEGRATOR, USER

Value space of the result returned:

*False/True*

Shows if the DeveloperPreview option key is installed on the device. This option key gives access to API commands that are not yet publicly available, allowing you to test features and functionality at an early stage. The syntax and semantics for such commands are likely to change before the command is made public and available for everyone.

Example:

```
xStatus SystemUnit Software OptionKeys DeveloperPreview
*s SystemUnit Software OptionKeys DeveloperPreview: True
** end
```

### xStatus SystemUnit Software OptionKeys Encryption

*Applies to:* RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 Board

Requires user role: ADMIN, USER

Shows if the Encryption option key is installed on the device. This option key enables the encryption functionality.

Value space of the result returned:

*False/True*

Example:

```
xStatus SystemUnit Software OptionKeys Encryption
*s SystemUnit Software OptionKeys Encryption: True
** end
```

### xStatus SystemUnit Software OptionKeys MultiSite

*Applies to:* All products

Requires user role: ADMIN, INTEGRATOR, USER

Shows if the MultiSite option key is installed on the device. This option key enables hosting conferences using the multipoint switch that is embedded in the device.

Value space of the result returned:

*False/True/NotApplicable*

Example:

```
xStatus SystemUnit Software OptionKeys MultiSite
*s SystemUnit Software OptionKeys MultiSite: True
** end
```

### xStatus SystemUnit Software OptionKeys RemoteMonitoring

*Applies to:* All products

Requires user role: ADMIN, USER

Shows if the RemoteMonitoring option key is installed on the device. With this option key installed, snapshots of local and remote input sources are shown in the device web interface (Call page), and video and content are included in user interface screenshots that are captured from the web interface (Issues and Diagnostics page).

Value space of the result returned:

*False/True*

Example:

```
xStatus SystemUnit Software OptionKeys RemoteMonitoring
*s SystemUnit Software OptionKeys RemoteMonitoring: True
** end
```

## xStatus SystemUnit Software ReleaseDate

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the release date of the software installed on the device.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Software ReleaseDate
*s SystemUnit Software ReleaseDate: "2023-02-04"
** end
```

## xStatus SystemUnit Software Version

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the software version installed on the device.

Value space of the result returned:

*String*

Example:

```
xStatus SystemUnit Software Version
*s SystemUnit Software Version: "cell.1.1.2.4.b7224552262"
** end
```

## xStatus SystemUnit State CameraLid

*Applies to: DeskPro DeskMini Desk*

Requires user role: ADMIN, USER

Shows the position of the camera lid (Closed or Open).

Value space of the result returned:

*Closed/Open*

**Closed:** The camera lid is closed.

**Open:** The camera lid is open.

Example:

```
xStatus SystemUnit State CameraLid
*s SystemUnit State CameraLid: Closed
** end
```

## xStatus SystemUnit State NumberOfActiveCalls

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the number of active calls.

Value space of the result returned:

*0..5*

Example:

```
xStatus SystemUnit State NumberOfActiveCalls
*s SystemUnit State NumberOfActiveCalls: 0
** end
```

## xStatus SystemUnit State NumberOfInProgressCalls

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Shows the number of calls in progress.

Value space of the result returned:

*0..5*

Example:

```
xStatus SystemUnit State NumberOfInProgressCalls
*s SystemUnit State NumberOfInProgressCalls: 0
** end
```

## xStatus SystemUnit State NumberOfSuspendedCalls

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the number of suspended calls.

Value space of the result returned:

*0..5*

Example:

```
xStatus SystemUnit State NumberOfSuspendedCalls
*s SystemUnit State NumberOfSuspendedCalls: 0
** end
```

## xStatus SystemUnit State Subsystem Application

*Applies to: All products*

Requires user role: ADMIN, USER

This status provides information about the state of a specific application within a subsystem of a system unit, facilitating effective monitoring and management of the system unit's functionality and performance. This status returns a value indicating the state of a particular application within a subsystem.

Value space of the result returned:

*Initialized/Initializing*

**Initialized:** The application within the subsystem has completed the initialization process and is in a ready state.

**Initializing:** The application within the subsystem is currently going through the initialization process.

Example:

```
xStatus SystemUnit State Subsystem Application
*s SystemUnit State Subsystem Application: Initialized
** end
```

## xStatus SystemUnit State System

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

This status provides information about the state of the system within a system unit. The status returns a value indicating the state of the system within the system unit.

Value space of the result returned:

*InCall/Initialized/Initializing/Multisite/Sleeping*

**InCall:** This value indicates that the system unit is currently in an active call.

**Initialized:** The system unit has completed the initialization process and is in a ready state.

**Initializing:** The system unit is currently going through the initialization process. The system unit is in the process of starting up before it can become fully operational.

**Multisite:** The system unit is operating in a MultiSite mode.

**Sleeping:** The system unit is in a sleep mode.

Example:

```
xStatus SystemUnit State System
*s SystemUnit State System: InCall
** end
```

## xStatus SystemUnit Uptime

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the number of seconds since the last restart of the device.

Value space of the result returned:

*Integer*

Example:

```
xStatus SystemUnit Uptime
*s SystemUnit Uptime: 597095
** end
```



## ThousandEyes status

### xStatus ThousandEyes Status

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the status of the ThousandEyes agent on the device. If it returns “Enabled”, the agent is running and registered with the ThousandEyes cloud service. The other states are error scenarios that require support from the ThousandEyes admin support.

This status only applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*Disabled/Enabled/Error/NotImplemented/Timeout/Unregistered*

Example:

```
xStatus ThousandEyes Status
*s ThousandEyes Status: Enabled
** end
```

### xStatus ThousandEyes Version

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the version of the ThousandEyes agent on the device.

This status only applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

Value space of the result returned:

*String*

Example:

```
xStatus ThousandEyes Version
*s ThousandEyes Version: "1.181.0"
** end
```

## Time status

### xStatus Time SystemTime

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the date and time set on the device.

Value space of the result returned:

*String*

Example:

```
xStatus Time SystemTime
*s Time SystemTime: "2023-03-23T10:52:04+0100"
** end
```

## UserInterface status

### xStatus UserInterface Branding CustomId Background

*Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the customid for the image used for the background, if applicable. The background image is displayed as a background on both the main screen and on the touch controller when the video system is in the awake state.

Value space of the result returned:

*String*

The identifier for the background image that is used in the awake state.

Example:

```
xStatus UserInterface Branding CustomId Background
*s UserInterface Branding CustomId Background: "building_front"
** end
```

### xStatus UserInterface Branding CustomId Branding

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the customid for the branding logo, if applicable. The branding logo will be displayed on a light background in the bottom right corner on both the main screen and the touch panel during awake state.

Value space of the result returned:

*String*

The identifier for the logo that is used in the awake state.

Example:

```
xStatus UserInterface Branding CustomId Branding
*s UserInterface Branding CustomId Branding: "dark_brand_logo"
** end
```

### xStatus UserInterface Branding CustomId HalfwakeBackground

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the customid for the image used for the halfwake background, if applicable. The halfwake background image is displayed as a background on both the main screen and on the touch controller when the video system is in the halfwake state.

Value space of the result returned:

*String*

The identifier for the halfwake background image.

Example:

```
xStatus UserInterface Branding CustomId HalfwakeBackground
*s UserInterface Branding CustomId HalfwakeBackground: "reception"
** end
```

### xStatus UserInterface Branding CustomId HalfwakeBranding

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the customid for the image used for the halfwake logo, if applicable. The halfwake logo will be displayed on a dark background in the bottom right corner on both the main screen and the touch controller during halfwake state.

Value space of the result returned:

*String*

The identifier for the halfwake logo.

Example:

```
xStatus UserInterface Branding CustomId HalfwakeBranding
*s UserInterface Branding CustomId HalfwakeBranding: "light_brand_logo"
** end
```

## xStatus UserInterface ContactInfo ContactMethod [n] Number

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the device's active contact information. This address is used to reach this device.

Value space of the result returned:

*String*

Example:

```
xStatus UserInterface ContactInfo ContactMethod Number
*s UserInterface ContactInfo ContactMethod 1 Number: "12345678"
** end
```

## xStatus UserInterface ContactInfo Name

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the device's active contact name. The result depends on which protocol, if any, the device is registered on. The automatically set contact name may have been overridden with the command xConfiguration UserInterface ContactInfo Type. This results in a diagnostics warning about contact mismatch.

Value space of the result returned:

*String*

Example:

```
xStatus UserInterface ContactInfo Name
*s UserInterface ContactInfo Name: "MySystem"
** end
```

## xStatus UserInterface Extensions Widget [n] Value

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Returns the value for a widget. Widgets are used in custom panels, for example in-room controls, that are added to the user interface. The value space depends on the widget type. The value is an empty string until a value is set with the UserInterface Extensions Widget SetValue command.

Value space of the result returned:

*String*

Example:

```
UserInterface Extensions Value
*s UserInterface Extensions Widget 1 Value: "on"
*s UserInterface Extensions Widget 2 Value: "255"
*s UserInterface Extensions Widget 3 Value: "Blinds"
*s UserInterface Extensions Widget 4 Value: "inactive"
*s UserInterface Extensions Widget 5 Value: "2"
*s UserInterface Extensions Widget 6 Value: "Projector is ready"
** end
```

## xStatus UserInterface Extensions Widget [n] WidgetId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Returns the unique identifier for a widget. Widgets are used in custom panels, for example in-room controls, that are added to the user interface.

Value space of the result returned:

*String*

Example:

```
UserInterface Extensions WidgetId
*s UserInterface Extensions Widget 1 WidgetId: "togglebutton"
*s UserInterface Extensions Widget 2 WidgetId: "slider"
*s UserInterface Extensions Widget 3 WidgetId: "spinner"
*s UserInterface Extensions Widget 4 WidgetId: "button"
*s UserInterface Extensions Widget 5 WidgetId: "groupbutton"
*s UserInterface Extensions Widget 6 WidgetId: "textfield"
** end
```

## xStatus UserInterface Features Calendar Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

Choose whether to the calendar widget is currently shown on the user interface.

Value space of the result returned:

*Hidden/Visible*

**Hidden:** The calendar widget is not shown on the user interface.

**Visible:** The calendar widget is shown on the user interface.

Example:

```
xStatus UserInterface Features Calendar Start
*s UserInterface Features Calendar Start: Hidden
** end
```

## xStatus UserInterface Features Call AudioMute

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether the "Mute/Unmute" button is visible on the user interface.

Value space of the result returned:

*Hidden/Visible*

**Visible:** The button is visible on the user interface.

**Hidden:** The button is not shown on the user interface.

Example:

```
xStatus UserInterface Features Call AudioMute
*s UserInterface Features Call AudioMute: Visible
** end
```

## xStatus UserInterface Features Call Breakouts

*Applies to: All products*

Requires user role: ADMIN, USER

Webex meetings may include breakout sessions, where participants of the meeting temporarily separate into smaller groups for discussions. This status reports if you are allowed to join such breakout sessions from the device.

This feature is only available for devices that are registered to the Webex cloud services or linked to Webex Edge for Devices.

Value space of the result returned:

*Disabled/Enabled*

**Disabled:** You can't join breakout sessions from the device.

**Enabled:** You can join breakout session from the device.

Example:

```
xStatus UserInterface Features Call Breakouts
*s UserInterface Features Call Breakouts: Enabled
** end
```

## xStatus UserInterface Features Call CameraControls

*Applies to: All products*

Requires user role: ADMIN, USER

This status reports if the camera controls are visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The camera controls are visible on the user interface.

**Hidden:** The camera controls are not shown on the user interface.

Example:

```
xStatus UserInterface Features Call CameraControls
*s UserInterface Features Call CameraControls: Visible
** end
```

## xStatus UserInterface Features Call End

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default End call button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Call End
*s UserInterface Features Call End: Visible
** end
```

## xStatus UserInterface Features Call HdmiPassthrough

*Applies to: RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2*

Requires user role: ADMIN, INTEGRATOR

This status reports whether the Call from laptop button is visible on the touch controller. Refer to the Video Output HDMI Passthrough Allowed setting for more information about HDMI passthrough and the Call from laptop feature. Call from laptop is not supported on Room 55 Dual and Room 70 Dual.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is visible on the touch controller.

**Hidden:** The button is not visible on the touch controller.

Example:

```
xStatus UserInterface Features Call HdmiPassthrough
*s UserInterface Features Call HdmiPassthrough: Visible
** end
```

## xStatus UserInterface Features Call JoinGoogleMeet

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the "Google Meet" button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is visible on the user interface.

**Hidden:** The button is not shown on the user interface.

Example:

```
xStatus UserInterface Features Call JoinGoogleMeet
*s UserInterface Features Call JoinGoogleMeet: Visible
** end
```

## xStatus UserInterface Features Call JoinWebex

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the "Webex" button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Call JoinWebex
*s UserInterface Features Call JoinWebex: Visible
** end
```

## xStatus UserInterface Features Call JoinZoom

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether the Zoom button (for joining Zoom meetings) is visible on the user interface.

Value space of the result returned:

*Hidden/Visible*

**Visible:** The button is visible on the user interface.

**Hidden:** The button is not shown on the user interface.

Example:

```
xStatus UserInterface Features Call JoinZoom
*s UserInterface Features Call JoinZoom: Visible
** end
```

## xStatus UserInterface Features Call Keypad

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default Keypad button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Call Keypad
*s UserInterface Features Call Keypad: Visible
** end
```

## xStatus UserInterface Features Call LayoutControls

*Applies to: All products*

Requires user role: ADMIN, USER

This status reports whether the Layout button is on the user interface when in call.

Value space of the result returned:

*Hidden/Visible*

**Hidden:** The button is not on the user interface.

**Visible:** The button is on the user interface.

Example:

```
xStatus UserInterface Features Call LayoutControls
*s UserInterface Features Call LayoutControls: Visible
** end
```

## xStatus UserInterface Features Call MidCallControls

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default Hold, Transfer, and Resume in-call buttons are visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The buttons are in the user interface.

**Hidden:** The buttons are removed from the user interface.

Example:

```
xStatus UserInterface Features MidCallControls
*s UserInterface Features MidCallControls: Visible
** end
```

## xStatus UserInterface Features Call MusicMode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the "Music Mode" button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is visible on the user interface.

**Hidden:** The default button is not shown on the user interface.

Example:

```
xStatus UserInterface Features Call MusicMode
*s UserInterface Features Call MusicMode: Visible
** end
```

## xStatus UserInterface Features Call ParticipantList

*Applies to: All products*

Requires user role: ADMIN, USER

This status reports whether the Participants button is on the user interface when in a call.

Value space of the result returned:

*Hidden/Visible*

**Hidden:** The button is not on the user interface.

**Visible:** The button is on the user interface.

Example:

```
xStatus UserInterface Features Call ParticipantList
*s UserInterface Features Call ParticipantList: Visible
** end
```

## xStatus UserInterface Features Call SelfviewControls

*Applies to: All products*

Requires user role: ADMIN, USER

This status reports whether the self-view controls are on the user interface.

Value space of the result returned:

*Hidden/Visible*

**Hidden:** The self-view controls are not on the user interface.

**Visible:** The self-view controls are on the user interface.

Example:

```
xStatus UserInterface Features Call SelfviewControls
*s UserInterface Features Call SelfviewControls: Visible
** end
```

## xStatus UserInterface Features Call Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default Call button and the Add participant button are visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Call Start
*s UserInterface Features Call Start: Visible
** end
```

## xStatus UserInterface Features Call VideoMute

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the "Video Mute" button is visible on the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is visible on the user interface.

**Hidden:** The button is not shown on the user interface.

Example:

```
xStatus UserInterface Features Call VideoMute
*s UserInterface Features Call VideoMute: Visible
** end
```

## xStatus UserInterface Features Call Webcam

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This status reports whether the Call from laptop button is visible on the touch controller.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is visible on the touch controller.

**Hidden:** The button is not visible on the touch controller.

Example:

```
xStatus UserInterface Features Call Webcam
*s UserInterface Features Call Webcam: Visible
** end
```

## xStatus UserInterface Features Files Start

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This status reports whether the default Files button is removed from the user interface.

Value space of the result returned:

*Hidden/Visible*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Files Start
*s UserInterface Features Files Start: Visible
** end
```

## xStatus UserInterface Features Share Start

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default buttons and other UI elements for sharing and previewing content, both in call and out of call, are removed from the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Share Start
*s UserInterface Features Share Start: Visible
** end
```



## xStatus UserInterface Features Whiteboard Start

*Applies to: RoomKitMini RoomBar RoomBarPro CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the default Whiteboard button is removed from the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The button is in the user interface.

**Hidden:** The button is removed from the user interface.

Example:

```
xStatus UserInterface Features Whiteboard Start
*s UserInterface Features Whiteboard Start: Visible
** end
```

## xStatus UserInterface LedControl Color

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The wall mount version of the Room Navigator has LED lights. This status returns the state of the LED lights.

Value space of the result returned:

*Aquamarine/Blue/Cyan/Fuchsia/Gold/Green/Lime/Magenta/Off/Orange/Orchid/Purple/Red/Scarlet/Turquoise/Violet/Yellow*

**Off:** The LED lights are off.

**Other:** The LED lights are on, and they have the specified color.

Example:

```
xStatus UserInterface LedControl Color
*s UserInterface LedControl Color: Green
** end
```

## xStatus UserInterface OSD Output

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Indicates which monitor on-screen information and indicators (OSD) are displayed on.

Value space of the result returned:

*Integer*

Example:

```
xStatus UserInterface OSD Output
*s UserInterface OSD Output: 1
** end
```

## xStatus UserInterface ScreenLock Status

*Applies to:*

Requires user role: ADMIN, USER

Reports whether a PIN lock is set for the device.

Value space of the result returned:

*Disabled/Locked/Unavailable/Unlocked*

**Disabled:** PIN lock is not set up for the device, but the feature is available if the user chooses to set it up.

**Locked:** PIN lock is set up for the device, and the device is currently locked

**Unlocked:** PIN lock is set up for the device, but the device is currently unlocked.

**Unavailable:** The PIN lock feature is not allowed on this device.

Example:

```
xStatus UserInterface ScreenLock Status
*s UserInterface ScreenLock Status: Locked
** end
```

## xStatus UserInterface SettingsMenu Visibility

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR

This status reports whether or not the control panel, including the device settings panel, is part of the user interface.

Value space of the result returned:

*Visible/Hidden*

**Visible:** The control panel is included in the user interface (swipe from right or tap the icon in the upper right corner of the user interface).

**Hidden:** The control panel is not shown.

Example:

```
xStatus UserInterface SettingsMenu Visibility
*s UserInterface SettingsMenu Visibility: Visible
** end
```

## xStatus UserInterface Translation Override Checksum

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the checksum of the translation you have set with xcommand Translation Override Set.

The checksum is blank if there is no override.

Value space of the result returned:

*String*

Example:

```
xStatus UserInterface Translation Override Checksum
*s UserInterface Translation Override Checksum:
"7be246418d4b675313eccdc267b28b7057d08f3e4fc1d172155c9f30b3b4da9b"
** end
```

## xStatus UserInterface WebView [n] ErrorDescription

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

The error string reported from Chromium, usually a string representation of an internal enum value, e.g. "net::ERR\_NAME\_NOT\_RESOLVED" and "net::ERR\_CERT\_AUTHORITY\_INVALID".

Value space of the result returned:

*String*

Example:

```
xstatus UserInterface WebView ErrorDescription
*s UserInterface WebView 1 ErrorDescription: ""
** end
```

## xStatus UserInterface WebView [n] ErrorType

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports the type of error, if an error occurs while loading the web page.

Value space of the result returned:

*CertificateError/ConnectionError/DnsError/HttpError/NoError/OtherError/OutOfMemory/RenderProcessCrashed*

**No Error:** Loaded OK

**OutOfMemory:** The web page used too much memory.

**RenderProcessCrashed:** The web page crashed.

**CertificateError:** The SSL certificate did not validate.

**ConnectionError:** Could not connect to the web server.

**HttpError:** HTTP error from web server.

**DnsError:** Error during hostname lookup.

Example:

```
xstatus UserInterface WebView ErrorType
*s UserInterface WebView 1 ErrorType: NoError
** end
```

## xStatus UserInterface WebView [n] HttpStatusCode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

This is the status code reported from the webserver, e.g. 200 when the web page is loaded correctly, 404 when document not found etc.

Value space of the result returned:

*Integer*

Example:

```
xstatus UserInterface WebView HttpStatusCode
*s UserInterface WebView 1 HttpStatusCode: 200
** end
```

## xStatus UserInterface WebView [n] Status

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether a web view is being displayed currently or not.

Value space of the result returned:

*Visible/Error/NotVisible*

**Visible:** A web view is being displayed.

**NonVisible:** No web view is being displayed.

**Error:** There is an error displaying a web view.

Example:

```
xstatus UserInterface WebView
*s UserInterface WebView 8 Status: Visible
** end
```

## xStatus UserInterface WebView [n] Type

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the type of web view currently being displayed.

Value space of the result returned:

*ECM/ECMSignIn/EmbeddedApp/Integration/Kiosk/None/PersistentWebApp/Signage/ WebApp/WebRTCMeeting/WebWidget*

**ECM:** The web view is launched from the file browser to view a file hosted on an Enterprise Content Management (ECM) service.

**ECMSignIn:** The web view is launched by the system to authenticate the user (OAuth2) with an ECM service.

**Integration:** The web view is launched by the UserInterface WebView Display API command.

**Kiosk:** The web view is used for the kiosk application.

**None:** No web view is showing.

**PersistentWebApp:** The web view is used for a persistent web app.

**Signage:** The web view is used for the digital signage application.

**WebApp:** The web view is used for a web app.

**WebRTCMeeting:** The web view is used for a WebRTC Meeting (for example, Google Meet and Microsoft Teams).

**WebWidget:** The web view is used for a web widget.

Example:

```
xstatus UserInterface WebView
*s UserInterface WebView 8 Type: Integration
** end
```

## xStatus UserInterface WebView [n] URL

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the URL of the web view that is currently being displayed.

Value space of the result returned:

*String*

Example:

```
xstatus UserInterface WebView
*s UserInterface WebView 8 URL: "http://www.yr.no/"
** end
```

## UserPresence status

### xStatus Webex Services UserPresence CustomStatus

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the current custom status set for this user. Refer to the UserPresence CustomStatus Set commands.

This status applies only to personal devices that are registered to the Webex cloud service or linked to Webex Edge for devices. User presence is tied to the user (that is, the person that the device is registered to), hence the same status will show on the device and on Webex apps belonging to this person.

Value space of the result returned:

*String*

Example:

```
xStatus Webex Services UserPresence CustomStatus
*s Webex Services UserPresence CustomStatus: "Out for lunch"
** end
```

### xStatus Webex Services UserPresence Status

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the current availability status of the user (for example, if the user is active, in a meeting, sharing a presentation, etc.).

This status applies only to personal devices that are registered to the Webex cloud service or linked to Webex Edge for devices. User presence is tied to the user (that is, the person that the device is registered to), hence the same status will show on the device and on Webex apps belonging to this person.

Value space of the result returned:

*Active/Away/Busy/Call/DoNotDisturb/Meeting/OutOfOffice/Presenting/QuietHours/Schedule/Unknown*

Example:

```
xStatus Webex Services UserPresence Status
*s Webex Services UserPresence Status: Meeting
** end
```

## Video status

### xStatus Video ActiveSpeaker PIPPosition

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the position of the active speaker's image on the screen.

Value space of the result returned:

*CenterLeft/CenterRight/DockCenterLeft/DockLowerLeft/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight*

Example:

```
xStatus Video ActiveSpeaker PIPPosition
*s Video ActiveSpeaker PIPPosition: UpperCenter
** end
```

### xStatus Video Input AirPlay Activity

*Applies to: All products*

Requires user role: ADMIN, USER

Reports the AirPlay activity, that is, what kind of AirPlay content is shown/played back on the video device.

This status isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

Value space of the result returned:

*Audio/Curtain/Idle/PinInPip/Screen/Settings/Video*

**Audio:** The device is playing back audio.

**Curtain:** The device is showing the AirPlay home page.

**Idle:** AirPlay is currently not in use.

**PinInPip:** The AirPlay code is shown in a small PiP (picture-in-picture).

**Screen:** An Apple device is sharing its screen on the video device (screen mirroring).

**Settings:** The device is showing one of the pages you can navigate to from the AirPlay home page (the Curtain sub menus).

**Video:** The device is playing back video.

Example:

```
xStatus Video Input AirPlay Activity
*s Video Input AirPlay Activity: Curtain
** end
```

## xStatus Video Input AirPlay Status

*Applies to: All products*

Requires user role: ADMIN, USER

Reports the status of the AirPlay service.

This status isn't on the first generation of Board (non S-series) because these devices don't support AirPlay.

Value space of the result returned:

*Active/Disabled/Error/Off/Starting/Stopped*

**Active:** AirPlay is in use (Video Input AirPlay Mode is On, and AirPlay is not switched off in the AirPlay menu on the UI).

**Disabled:** AirPlay is disabled from the AirPlay menu on the UI.

**Error:** There is an error starting AirPlay.

**Off:** AirPlay is turned off (Video Input AirPlay Mode is Off).

**Starting:** AirPlay is starting up.

**Stopped:** AirPlay has currently stopped. It's not disabled or turned off; just not being used.

Example:

```
xStatus Video Input AirPlay Status
*s Video Input AirPlay Status: Active
** end
```

## xStatus Video Input Connector [n] Connected

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether is something is connected to the specified connector. Not all connections can be detected.

Value space of the result returned:

*False/True/Unknown*

Example:

```
xStatus Video Input Connector 1 Connected
*s Video Input Connector 1 Connected: True
** end
```

## xStatus Video Input Connector [n] ConnectedDevice CEC [n] DeviceType

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows what type of input device is connected.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input Connector 2 ConnectedDevice CEC 5 DeviceType
*s Video Input Connector 2 ConnectedDevice CEC 5 DeviceType: "Playback"
** end
```

## xStatus Video Input Connector [n] ConnectedDevice CEC [n] LogicalAddress

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the CEC logical address of the connected input device. The address is fixed at 0.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Connector 1 ConnectedDevice CEC 1 LogicalAddress
*s Video Input Connector 1 ConnectedDevice CEC 1 LogicalAddress: 0
** end
```

## xStatus Video Input Connector [n] ConnectedDevice CEC [n] Name

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the name of the connected input device.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input Connector 2 ConnectedDevice CEC 5 Name
*s Video Input Connector 2 ConnectedDevice CEC 5 Name: "Device-2"
** end
```

## xStatus Video Input Connector [n] ConnectedDevice CEC [n] PowerStatus

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the state of the CEC enabled device connected to the HDMI input.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input Connector 2 ConnectedDevice CEC 5 PowerStatus
*s Video Input Connector 2 ConnectedDevice CEC 5 PowerStatus: "Standby"
** end
```

## xStatus Video Input Connector [n] ConnectedDevice CEC [n] VendorId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the vendor ID for the connected input device.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input Connector 2 ConnectedDevice CEC 5 VendorId
*s Video Input Connector 2 ConnectedDevice CEC 5 VendorId: "20576"
** end
```

## xStatus Video Input Connector [n] SignalState

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows if the device has detected an input signal on the specified input.

Value space of the result returned:

*NotFound/DetectingFormat/OK/Unknown/Unstable/Unsupported*

**NotFound:** The device doesn't detect any input signal. Typically, this is the case when no cable is connected, or the connected source doesn't output video.

**DetectingFormat:** The device has detected an input signal, and is in the process of detecting its format.

**OK:** The device detects a valid video input signal and the signal format support is reported in the Video Input Source [n] FormatStatus status.

**Unstable:** The device detects an unstable signal. Typically, this can be the case for a few seconds after you have connected the cable, that is, while the hardware tries to detect the video format. This value will also be returned when the device is not able to determine the signal format, or the signal format is inconsistent.

Example:

```
xStatus Video Input Connector 1 SignalState
*s Video Input Connector 1 SignalState: OK
** end
```

## xStatus Video Input Connector [n] SourceId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the identifier of the input source that the connector is associated with.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Connector 1 SourceId
*s Video Input Connector 1 SourceId: 1
** end
```

## xStatus Video Input Connector [n] Type

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows which connector type it is.

Value space of the result returned:

*Camera/3G-SDI/HD-SDI/HDMI/Unused/USB/USBC-DP/Unknown*

Example:

```
xStatus Video Input Connector 1 Type
*s Video Input Connector 1 Type: HDMI
** end
```

## xStatus Video Input DirectShare [n] Peer Address

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the IP address of the connected direct share peer.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input DirectShare 27 Peer Address
*s Video Input DirectShare 27 Peer Address: xxx.xxx.xx.xx
** end
```

## xStatus Video Input DirectShare [n] Peer PeripheralID

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows a unique identifier of the direct share peer in question.

Value space of the result returned:

*String*

Example:

```
xStatus Video Input DirectShare 27 Peer PeripheralID
*s Video Input DirectShare 27 Peer PeripheralID: byod-5
** end
```

## xStatus Video Input DirectShare [n] Type

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the type of direct share peer.

Value space of the result returned:

*Proximity*

**Proximity:** Sharing through a proximity connection.

Example:

```
xStatus Video Input DirectShare 27 Type
*s Video Input DirectShare 27 Type: Proximity
** end
```

## xStatus Video Input MainVideoMute

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, INTEGRATOR, USER

Indicates whether sending of main video has been stopped by using the Video Input MainVideo Mute command (or, if available, the "Turn video off" button on the user interface).

Value space of the result returned:

*On/Off*

**On:** Video has been stopped.

**Off:** Video has not been stopped.

Example:

```
xStatus Video Input MainVideoMute
*s Video Input MainVideoMute: Off
** end
```

## xStatus Video Input MainVideoSource

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the local video input currently used as the main source. The value Composed is returned if the main source is composed of more than one local input. The default main video source is set with the xConfiguration Video DefaultMainSource command. It can be changed using xCommand Video Input SetMainVideoSource.

Value space of the result returned:

*1/2/3/4/5/6/Composed*

Example:

```
xStatus Video Input MainVideoSource
*s Video Input MainVideoSource: 1
** end
```

## xStatus Video Input Miracast Channel

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports which Wi-Fi channel Miracast is using for the direct connection between a sending device (typically, a meeting participant's laptop) and the video device.

The status returns "-1" when Miracast is not enabled. See the Video Input Miracast Mode setting for more information.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Miracast Channel
*s Video Input Miracast Channel: 1
** end
```

## xStatus Video Input Miracast PinAttemptsLeft

*Applies to: All products*

Requires user role: ADMIN, USER

When starting a Miracast share, users must enter a PIN code on their laptop. This status shows how many attempts they have left before PIN authentication for Miracast will be blocked for a given period. The counter is reset when a valid PIN code is entered. The more consecutive failed attempts, the longer the blocking period will be.

When blocked, you can reactivate PIN authentication from a pop-up on the device screen or from the Settings menu.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Miracast PinAttemptsLeft
*s Video Input Miracast PinAttemptsLeft: 7
** end
```

## xStatus Video Input Miracast Status

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether a direct Wi-Fi connection for Miracast is, or can be, established between a sending device (typically a meeting participant's laptop) and the video device. See the Video Input Miracast Mode setting for more information.

Value space of the result returned:

*Started/Stopped*

**Started:** Miracast is enabled, and a direct Wi-Fi connection between the two devices is, or can be, established. The device emits a Miracast beacon.

**Stopped:** Miracast is disabled, and a direct Wi-Fi connection between the two devices is therefore not possible. The device doesn't emit a Miracast beacon

Example:

```
xStatus Video Input Miracast Status
*s Video Input Miracast Status: Started
** end
```



## xStatus Video Input Miracast Transport

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the current Miracast sharing transport method.

Value space of the result returned:

*Direct/Infrastructure/None*

**Direct:** Content is being shared using Wi-Fi Direct.

**Infrastructure:** Content is being shared using the company's network infrastructure (using the MS-MICE protocol).

**None:** Content is currently not being shared.

Example:

```
xStatus Video Input Miracast Transport
*s Video Input Miracast Transport: Direct
** end
```

## xStatus Video Input Source [n] ConnectorId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the identifier of the connector that is associated with the input source.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Source 1 ConnectorId
*s Video Input Source 1 ConnectorId: 1
** end
```

## xStatus Video Input Source [n] FormatStatus

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the video format status and support for a specified video input signal. Only Ok marks a valid and supported video input format; all other states indicates an error.

Value space of the result returned:

*Ok/OutOfRange/NotFound/Interlaced/Error/Unknown*

**Ok:** The video input format is supported. The resolution and framerate is reported in Video Input Source [n] Resolution status.

**OutOfRange:** The video input format has higher resolution and/or framerate than the device supports for the specified input. Not all video input connectors can report this type of error.

**Interlaced:** The video input format is interlaced, which isn't supported. The device support only progressive formats. Not all video input connectors can report this type of error.

**NotFound:** There is no video format present on the specified input. See the Video Input Connector [n] SignalState status for information why it might be missing.

**Error:** There is an error with the video input format. This can be the case when the video input signal is unstable (SignalState: Unstable) or the video input signal format cannot be determined (and none of the other error states can be used).

Example:

```
xStatus Video Input Source 1 FormatStatus
*s Video Input Source 1 FormatStatus: Ok
** end
```

## xStatus Video Input Source [n] MediaChannelId

*Applies to: All products*

Requires user role: ADMIN, USER

Only for Cisco internal use.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Input Source MediaChannelId
*s Video Input Source 1 MediaChannelId: 2
*s Video Input Source 2 MediaChannelId: 3
** end
```

### xStatus Video Input Source [n] Resolution Height

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the resolution height (in pixels) for the video input source.

Value space of the result returned:

*0..3000*

Example:

```
xStatus Video Input Source 1 Resolution Height
*s Video Input Source 1 Resolution Height: 1080
** end
```

### xStatus Video Input Source [n] Resolution RefreshRate

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the resolution refresh rate (Hz) for the video input source.

Value space of the result returned:

*0..300*

Example:

```
xStatus Video Input Source 1 Resolution RefreshRate
*s Video Input Source 1 Resolution RefreshRate: 50
** end
```

### xStatus Video Input Source [n] Resolution Width

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the resolution width (in pixels) for the video input source.

Value space of the result returned:

*0..4000*

Example:

```
xStatus Video Input Source 1 Resolution Width
*s Video Input Source 1 Resolution Width: 1920
** end
```

### xStatus Video Layout CurrentLayouts ActiveLayout

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the name of the layout family that is currently used on the local screen.

Value space of the result returned:

*String*

Example:

```
xStatus Video Layout CurrentLayouts ActiveLayout
*s Video Layout CurrentLayouts ActiveLayout: "Prominent"
** end
```

### xStatus Video Layout CurrentLayouts AvailableLayouts [n] LayoutName

*Applies to: All products*

Requires user role: ADMIN, USER

Lists the names of all the layout families that are currently available for the local screen. The status will be updated dynamically when the number of participants and the presence of shared content change. If a layout family is included in the list, it's possible to change to it using the Video Layout SetLayout command.

Value space of the result returned:

*String*

Example:

```
xStatus Video Layout CurrentLayouts AvailableLayouts LayoutName
*s Video Layout CurrentLayouts AvailableLayouts 1 LayoutName: "Prominent"
*s Video Layout CurrentLayouts AvailableLayouts 2 LayoutName: "Grid"
*s Video Layout CurrentLayouts AvailableLayouts 3 LayoutName: "Focus"
*s Video Layout CurrentLayouts AvailableLayouts 4 LayoutName: "Overlay"
** end
```

## xStatus Video Layout CurrentLayouts DefaultLayout

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the layout family that will be used on the local screen as default in non-transcoded meetings. The default layout family is set with the Video DefaultLayoutFamily Local configuration. If this configuration is set to Auto, the status will show the actual layout family that it resolves to. This is determined by the number of screens with different layouts in your room setup, and whether a screen is reserved for presentations (refer to the Video Monitors setting).

Value space of the result returned:

*String*

Example:

```
xStatus Video Layout CurrentLayouts DefaultLayout
*s Video Layout CurrentLayouts DefaultLayout: "Prominent"
** end
```

## xStatus Video Layout LayoutFamily Local

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the local screen layout family.

Value space of the result returned:

*String*

Example:

```
xStatus Video Layout LayoutFamily Local
*s Video Layout LayoutFamily Local: "equal"
** end
```

## xStatus Video Layout LayoutFamily Remote

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Shows the remote screen layout family.

Value space of the result returned:

*String*

Example:

```
xStatus Video Layout LayoutFamily Remote
*s Video Layout LayoutFamily Remote: "equal"
** end
```

## xStatus Video Monitors

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the monitor layout mode.

Value space of the result returned:

*Single/Dual/DualPresentationOnly/Triple/TriplePresentationOnly*

**Single:** The same layout is shown on all monitors.

**Dual:** The layout is distributed on two monitors.

**DualPresentationOnly:** All participants in the call will be shown on the first monitor, while the presentation (if any) will be shown on the second monitor.

**Triple:** The layout is distributed on three monitors.

**TriplePresentationOnly:** All participants in the call will be shown on the first and second monitors, while the presentation (if any) will be shown on the third monitor.

Example:

```
xStatus Video Monitors
*s Video Monitors: Single
** end
```

## xStatus Video Output Connector [n] Connected

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Describes whether a device (for example a display) is connected to the output connector or not. When a display enters standby mode, the video device may not be able to detect it. The connector status will then return False/Unknown even if the display is physically connected.

Value space of the result returned:

*True/False*

**True:** A device is connected to the video output connector.

**False:** Nothing is connected to the video output connector.

Example:

```
xStatus Video Output Connector 1 Connected
*s Video Output Connector 1 Connected: True
** end
```

## xStatus Video Output Connector [n] ConnectedDevice CEC [n] DeviceType

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the type of CEC enabled device connected to the HDMI output that the video device has detected.

This information is only available when the device connected to the HDMI output has the CEC feature configured on and the video device has the configuration xConfiguration Video Output Connector [n] CEC Mode set to on.

Value space of the result returned:

*Unknown/TV/Reserved/Recorder/Tuner/Playback/Audio*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice CEC DeviceType
*s Video Output Connector 1 ConnectedDevice CEC DeviceType: TV
** end
```

## xStatus Video Output Connector [n] ConnectedDevice CEC [n] LogicalAddress

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the CEC logical address of the device.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice CEC 1 LogicalAddress
*s Video Output Connector 1 ConnectedDevice CEC 1 LogicalAddress: 4
** end
```

## xStatus Video Output Connector [n] ConnectedDevice CEC [n] Name

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the name of the connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice CEC Name
*s Video Output Connector 1 ConnectedDevice CEC 1 Name: "LG SIGNAGE TV"
** end
```

## xStatus Video Output Connector [n] ConnectedDevice CEC [n] PowerStatus

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the state of the CEC enabled device connected to the HDMI output.

This information is only available when the device connected to the HDMI output has the CEC feature configured on and the video device has the configuration xConfiguration Video Output Connector CEC Mode set to on.

Value space of the result returned:

*Unknown/Ok/In progress/Failed to power on/Failed to standby*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice CEC PowerStatus
*s Video Output Connector 1 ConnectedDevice CEC PowerStatus: Ok
** end
```

## xStatus Video Output Connector [n] ConnectedDevice CEC [n] VendorId

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Returns the vendor ID for the connected device.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice CEC VendorId
*s Video Output Connector 1 ConnectedDevice CEC 1 VendorId: "57489"
** end
```

### xStatus Video Output Connector [n] ConnectedDevice Name

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the name of the monitor connected to the HDMI port as defined in the monitors EDID.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice Name
*s Video Output Connector 1 ConnectedDevice Name: "G2420HDBL"
** end
```

### xStatus Video Output Connector [n] ConnectedDevice PreferredFormat

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the preferred input format of the monitor connected to the HDMI port as defined in the monitors EDID. This is not necessarily the format the video device is sending out.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice PreferredFormat
*s Video Output Connector 1 ConnectedDevice PreferredFormat: "1920x1080@60Hz"
** end
```

### xStatus Video Output Connector [n] ConnectedDevice ScreenSize

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the screen size of the connected device in inches. If this information is not available, the default value is set to 0.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Output Connector 1 ConnectedDevice ScreenSize
*s Video Output Connector 1 ConnectedDevice ScreenSize: 55
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1080\_50

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 1920 x 1080 resolution at 50 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1080_50
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1080_50: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1080\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 1920 x 1080 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1080_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1080_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1200\_50

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 1920 x 1200 resolution at 50 frames per second on this connector.

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1200_50
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1200_50: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_1920\_1200\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 1920 x 1200 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1200_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_1920_1200_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2560\_1080\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 2560 x 1080 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2560_1080_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2560_1080_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2560\_1440\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 2560 x 1440 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2560_1440_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2560_1440_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_2880\_1200\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 2880 x 1200 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2880_1200_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_2880_1200_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3440\_1440\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 3440 x 1440 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3440_1440_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3440_1440_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_1600\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 3840 x 1600 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_1600_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_1600_60: True
** end
```

### xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_1620\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 3840 x 1620 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_1620_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_1620_60: True
** end
```

## xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_2160\_30

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 3840 x 2160 resolution at 30 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_2160_30
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_2160_30: True
** end
```

## xStatus Video Output Connector [n] ConnectedDevice SupportedFormat Res\_3840\_2160\_60

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Reports whether both the connected screen (read from its EDID metadata) and the video device supports video with 3840 x 2160 resolution at 60 frames per second on this connector.

Value space of the result returned:

*False/True*

**False:** The format is not supported.

**True:** The format is supported.

Example:

```
xStatus Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_2160_60
*s Video Output Connector 1 ConnectedDevice SupportedFormat
Res_3840_2160_60: True
** end
```

## xStatus Video Output Connector [n] Connected

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Describes whether a device (for example a display) is connected to the output connector or not. When a display enters standby mode, the video device may not be able to detect it. The connector status will then return False/Unknown even if the display is physically connected.

Value space of the result returned:

*True/False*

**True:** A device is connected to the video output connector.

**False:** Nothing is connected to the video output connector.

Example:

```
xStatus Video Output Connector 1 Connected
*s Video Output Connector 1 Connected: True
** end
```

## xStatus Video Output Connector [n] HDCP State

*Applies to: All products*

Requires user role: ADMIN, USER

The status reports if the output supports HDCP, and if so, the state of the HDCP link toward a connected screen.

Value space of the result returned:

*Authenticated/Inactive/Unauthenticated/Unsupported*

**Authenticated:** An HDCP link is established, and the link is stable. The connector can transmit HDCP protected content.

**Inactive:** The connector may support HDCP but is currently configured not to allow HDCP protected content (refer to the Video Output Connector [n] HDCPPolicy setting).

**Unauthenticated:** The connector is set up to allow HDCP protected content, but either there is no screen connected to it, or the device is in the process of establishing a link toward the screen. If the link is unstable, the device may remain in this state or revert to Inactive.

**Unsupported:** The connector doesn't support HDCP, and it can't be set up to support it.

Example:

```
xStatus Video Output Connector 2 HDCP State
*s Video Output Connector 2 HDCP State: Unauthenticated
** end
```



## xStatus Video Output Connector [n] MonitorRole

*Applies to: All products*

Requires user role: ADMIN, USER

Describes which video stream is shown on the device that is connected to the video output connector.

Value space of the result returned:

*First/Second/Third/PresentationOnly/Recorder*

**First/Second/Third:** The role of the monitor in a multimonitor setup. In a singlemonitor setup, there is no difference between First, Second and Third.

**PresentationOnly:** Shows presentation video stream if active.

**Recorder:** Shows all participants, including the local main video. If active, shows also the presentation.

Example:

```
xStatus Video Output Connector 1 MonitorRole
*s Video Output Connector 1 MonitorRole: First
** end
```

## xStatus Video Output Connector [n] Resolution Height

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the resolution height (in pixels) for the video output connector.

Value space of the result returned:

*120..3000*

Example:

```
xStatus Video Output Connector 1 Resolution Height
*s Video Output Connector 1 Resolution Height: 1080
** en
```

## xStatus Video Output Connector [n] Resolution RefreshRate

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the resolution refresh rate (Hz) for the video output connector.

Value space of the result returned:

*1..300*

Example:

```
xStatus Video Output Connector 1 Resolution RefreshRate
*s Video Output Connector 1 Resolution RefreshRate: 60
** end
```

## xStatus Video Output Connector [n] Resolution Width

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the resolution width (in pixels) for the video output connector.

Value space of the result returned:

*176..4000*

Example:

```
xStatus Video Output Connector 1 Resolution Width
*s Video Output Connector 1 Resolution Width: 1920
** end
```

## xStatus Video Output Connector [n] Type

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the type of connector.

Value space of the result returned:

*HDMI/LCD*

Example:

```
xStatus Video Output Connector 1 Type
*s Video Output Connector 1 Type: HDMI
** end
```

## xStatus Video Output HDMI Passthrough Status

*Applies to:* RoomKit CodecPlus CodecPro Room55 Room70/Room55D Room70G2

Requires user role: ADMIN, USER

Reports whether the device is set up for streaming audio and video from its microphones and camera on the HDMI output that the HDMI-to-USB converter is connected to (refer to the Video Output HDMI Passthrough OutputConnector setting). The status changes with the Video Output HDMI Passthrough Start/Stop commands.

This status is related to the Call from laptop feature. See the Video Output HDMI Passthrough Allowed configuration for more information.

This status doesn't apply to Room 55 Dual and Room 70 Dual.

Value space of the result returned:

*Active/Inactive*

**Active:** The device is set up for streaming audio or video on the relevant HDMI output.

**Inactive:** The device is not set up for streaming audio or video on the relevant HDMI output.

Example:

```
xStatus Video Output HDMI Passthrough Status
*s Video Output HDMI Passthrough Status: Active
** end
```

## xStatus Video Output Monitor [n] Backlight

*Applies to:* Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro Board

Requires user role: ADMIN, USER

Returns the backlight level of an integrated screen. The level has been set with xCommand Video Output Monitor Backlight Set.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Output Monitor 1 Backlight
*s Video Output Monitor 1 Backlight: 80
** end
```

## xStatus Video Output Monitor [n] Calibrated

*Applies to:* RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Shows the calibration status of the display.

Value space of the result returned:

*True/False*

**True:** The display is calibrated.

**False:** The display is not calibrated.

Example:

```
xStatus Video Output Monitor 1 Calibrated
*s Video Output Monitor 1 Calibrated: True
** end
```

## xStatus Video Output Monitor [n] ColorTemperature Selected

*Applies to:* Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Returns the monitors color temperature, that has been set with xCommand Video Output Monitor Color Select.

Value space of the result returned:

*4900/5500/6500/7200/9300/10500/12000/User*

Example:

```
xStatus Video Output Monitor 1 ColorTemperature Selected
*s Video Output Monitor 1 ColorTemperature Selected: 6500
** end
```

## xStatus Video Output Monitor [n] Configured

*Applies to:* RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Shows the configuration status of the display.

Value space of the result returned:

*True/False*

**True:** The display is configured.

**False:** The display is not configured.

Example:

```
xStatus Video Output Monitor 1 Configured
*s Video Output Monitor 1 Configured: True
** end
```

### xStatus Video Output Monitor [n] FirmwareVersion

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the firmware version of the monitor. This status field is only populated when connecting with a supported LG monitor.

Value space of the result returned:

*String*

The firmware version of the monitor.

Example:

```
xStatus Video Output Monitor 1 FirmwareVersion
*s Video Output Monitor 1 FirmwareVersion: ""
** end
```

### xStatus Video Output Monitor [n] IpAddress

*Applies to: RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

Shows the IP Address of the display.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Monitor 1 IpAddress
*s Video Output Monitor 1 IpAddress: "xxxxxxxx"
** end
```

### xStatus Video Output Monitor [n] Manufacturer

*Applies to: RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

Shows the manufacturer of the screen.

Value space of the result returned:

*String*

Example:

```
xStatus Video Output Monitor 1 Manufacturer
*s Video Output Monitor 1 Manufacturer: "ManufacturerName"
** end
```

### xStatus Video Output Monitor [n] ManufacturerId

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the three-character manufacturer PnP (plug-and-play) id code for the connected screen.

Value space of the result returned:

*String*

The manufacturer id code.

Example:

```
xStatus Video Output Monitor 1 ManufacturerId
*s Video Output Monitor 1 ManufacturerId: "ABC"
** end
```

### xStatus Video Output Monitor [n] MDC Id

*Applies to: RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

Shows the MDC Id of the display.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Output Monitor 1 MDC Id
*s Video Output Monitor 1 MDC Id: xxxxxxxx
** end
```

### xStatus Video Output Monitor [n] MDC Port

*Applies to: RoomPanorama/Room70Panorama*

Requires user role: ADMIN, USER

Shows the MDC Port of the display.

Value space of the result returned:

*Integer*

Example:

```
xStatus Video Output Monitor 1 MDC Port
*s Video Output Monitor 1 MDC Port: xxxxxxxx
** end
```

## xStatus Video Output Monitor [n] ModelName

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the model name of the monitor. This status field is only populated when connecting with a supported LG monitor.

Value space of the result returned:

*String*

The model name of the monitor.

Example:

```
xStatus Video Output Monitor 1 ModelName
*s Video Output Monitor 1 ModelName: ""
** end
```

## xStatus Video Output Monitor [n] Position

*Applies to: All products*

Requires user role: ADMIN, USER

Shows whether the monitor is positioned on the left or the right. Applicable for dual screen devices only.

Value space of the result returned:

*Left/Right*

Example:

```
xStatus Video Output Monitor 1 Position
*s Video Output Monitor 1 Position: Left
** end
```

## xStatus Video Output Monitor [n] SerialNumber

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the serial number of the monitor, as reported by CDDC (Client Device Data Collector). If that's not available, information from EDID (Extended Display Identification Data) is reported if present. And if neither are available, an empty string is returned.

Value space of the result returned:

*String*

The serial number of the monitor.

Example:

```
xStatus Video Output Monitor 1 SerialNumber
*s Video Output Monitor 1 SerialNumber: ""
** end
```

## xStatus Video Output Monitor [n] Temperature

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the temperature of the monitor. This status field is only populated when connecting with a supported LG monitor.

Value space of the result returned:

*Normal/High*

**Normal:** The temperature of the monitor is normal.

**High:** The temperature of the monitor is too high.

Example:

```
xStatus Video Output Monitor 1 Temperature
*s Video Output Monitor 1 Temperature: Normal
** end
```

## xStatus Video Output Webcam Mode

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

In order to use the system as a webcam, one must establish a USB connection. This status shows the current state of the USB connection and whether audio or video is being streamed across it. "Video streaming" means that the frames that are captured by the camera of the device are continuously being transmitted across the USB connection as a video stream.

Value space of the result returned:

*Connected/Disconnected/Streaming/StreamingAudioOnly*

**Connected:** A USB connection is established, but no content is being streamed.

**Disconnected:** There is no USB connection established.

**Streaming:** Video is being streamed.

**StreamingAudioOnly:** Video is not being streamed, but audio is being streamed.

Example:

```
xStatus Video Output Webcam Mode
*s Video Output Webcam Mode: StreamingAudioOnly
** end
```

## xStatus Video Output Webcam Status

*Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

This status indicates whether or not the device currently is operating as a webcam. When operating as a webcam, the device is set into do-not-disturb mode.

On Room Kit Mini, the Video Output Webcam USBMode setting can be used to control whether to enter USB mode (and thereby also do-not-disturb mode) when you connect video or when you start streaming video. On other devices, it will enter this state only when video is being streamed across the USB connection.

Value space of the result returned:

*Active/Inactive*

Example:

```
xStatus Video Output Webcam Status
*s Video Output Webcam Status: Inactive
** end
```

## xStatus Video Presentation PIPPosition

*Applies to: All products*

Requires user role: ADMIN, USER

Shows the position of the presentation image on the screen.

Value space of the result returned:

*CenterLeft/CenterRight/DockCenterLeft/DockLowerLeft/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight*

Example:

```
xStatus Video Presentation PIPPosition
*s Video PIP Presentation Position: CenterLeft
** end
```

## xStatus Video Selfview FullscreenMode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether self-view is set on full screen mode or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Video Selfview FullscreenMode
*s Video Selfview FullscreenMode: Off
** end
```

## xStatus Video Selfview Mode

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether self-view mode is set on or not.

Value space of the result returned:

*On/Off*

Example:

```
xStatus Video Selfview Mode
*s Video Selfview Mode: Off
** end
```

## xStatus Video Selfview OnMonitorRole

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Identifies which monitor(s) contains the self-view, if present.

Value space of the result returned:

*First/Second/Third*

Example:

```
xStatus Video Selfview OnMonitorRole
*s Video Selfview OnMonitorRole: First
** end
```

## xStatus Video Selfview PIPPosition

*Applies to: All products*

Requires user role: ADMIN, INTEGRATOR, USER

Shows the position of the self-view image on the screen.

Value space of the result returned:

*CenterLeft/CenterRight/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight*

Example:

```
xStatus Video Selfview PIPPosition
*s Video Selfview PIPPosition: LowerRight
** end
```

## WebEngine status

### xStatus WebEngine Features Signage

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether or not the digital signage feature is enabled. It is enabled (On) only when both the WebEngine Mode and Standby Signage Mode settings are On.

Value space of the result returned:

*On/Off*

Example:

```
xStatus WebEngine Features Signage
*s WebEngine Features Signage: On
** end
```

### xStatus WebEngine Features WebEngine

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether or not the web engine is enabled. It is enabled (On) when the WebEngine Mode setting is On.

Value space of the result returned:

*On/Off*

Example:

```
xStatus WebEngine Features WebEngine
*s WebEngine Features WebEngine: On
** end
```

## xStatus WebEngine Features WebRTC

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if WebRTC is enabled on the device.

Through WebRTC, Webex devices and participants with devices in Personal mode, when invited to a WebRTC meeting (for example, Microsoft Teams and Google Meet), can join the meeting directly from their devices with One Button to Push (OBTP).

Value space of the result returned:

*Off/On*

Example:

```
xStatus WebEngine Features WebRTC
*s WebEngine Features WebRTC: On
** end
```

## xStatus WebEngine LogLevel

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the log level that is set for the web engine. Refer to the WebEngine Logging Set command for more information.

Value space of the result returned:

*Verbose/Info/Warning/Error/Fatal*

Example:

```
xStatus WebEngine LogLevel
*s WebEngine LogLevel: Verbose
** end
```

## xStatus WebEngine LogLevelVerbosity

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the refined Verbose log level that is set for the web engine. Refer to the WebEngine Logging Set command for more information.

Value space of the result returned:

*Integer*

Example:

```
xStatus WebEngine LogLevelVerbosity
*s WebEngine LogLevelVerbosity: -1
** end
```

## xStatus WebEngine Tracing CustomCategories

*Applies to: All products*

Requires user role: ADMIN, USER

Value space of the result returned:

*String*

Returns the list of custom categories (see the CustomCategories and Mode parameters of the WebEngine Tracing Start command). If no custom categories are used, this status returns an empty string.

Example:

```
xStatus WebEngine Tracing CustomCategories
*s WebEngine Tracing CustomCategories: ""
** end
```

## xStatus WebEngine Tracing Duration

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the initial duration of the trace, in seconds (see the Duration parameter of the WebEngine Tracing Start command). Will be set to -1 when the trace ends.

Value space of the result returned:

*Integer*

Example:

```
xStatus WebEngine Tracing Duration
*s WebEngine Tracing Duration: 600
** end
```

## xStatus WebEngine Tracing Mode

*Applies to: All products*

Requires user role: ADMIN, USER

Returns the mode used for the current trace (see the Mode parameter of the WebEngine Tracing Start command). Will be set to the empty string when the trace ends.

Value space of the result returned:

*Custom/FrameViewer/InputLatency/JavascriptAndRendering/Off/Rendering/
WebDeveloper*

Example:

```
xStatus WebEngine Tracing Mode
*s WebEngine Tracing Mode: Rendering
** end
```

## xStatus WebEngine Tracing Systrace

*Applies to: All products*

Requires user role: ADMIN, USER

Returns whether or not the Android Systrace format is used (see the Systrace parameter of the WebEngine Tracing Start command).

Value space of the result returned:

*Off/On*

Example:

```
xStatus WebEngine Tracing Systrace
*s WebEngine Tracing Systrace: On
** end
```

## Webex status

### xStatus Webex DeveloperId

*Applies to: All products*

Requires user role: ADMIN, USER

This an id can be used to send cloud xAPI calls to devices through developer.webex.com.

The cloud xAPI allows you to send commands and status requests to devices that are registered to the Webex cloud service or to an on-premises service and linked to Webex Edge for Devices. Most xAPI requests require a deviceId which can be obtained using this status.

Value space of the result returned:

*String*

Example:

```
xStatus Webex DeveloperId
*s Webex DeveloperId: "*****"
** end
```

### xStatus Webex DevicePersonalization Hotdesking SessionStatus

*Applies to: All products*

Requires user role: ADMIN, USER

This status applies to devices that are set up with hot desking. It reports whether the device has been booked or not.

Value space of the result returned:

*Available/Reserved*

Example:

```
xStatus Webex DevicePersonalization Hotdesking SessionStatus
*s Webex DevicePersonalization Hotdesking SessionStatus: Reserved
** end
```



## xStatus Webex Meetings InstantMeeting Availability

*Applies to: All products*

Requires user role: ADMIN, USER

Reports whether it's possible to start an instant Webex meeting on the device.

Instant Webex meetings are only available on shared devices, and the device must be registered to the Webex cloud service or linked to Webex Edge for devices with the Webex optimized experience enabled.

Value space of the result returned:

*Available/Unavailable*

**Available:** It's possible to start an instant Webex meeting from the device.

**Unavailable:** It's not possible to start an instant Webex meeting from the device.

Example:

```
xStatus Webex Meetings InstantMeeting Availability
*s Webex Meetings InstantMeeting Availability: Available
** end
```

## xStatus Webex Meetings JoinProtocol

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the device can join Webex Meetings using the Webex cloud service for calling.

Value space of the result returned:

*SIP/Webex*

**SIP:** The device will always use the on-premises infrastructure for calling. The call protocol is SIP.

**Webex:** The device will use the Webex cloud service for calling if all requirements are met (refer to the Webex Meetings JoinProtocol setting). Otherwise, the call protocol is SIP.

Example:

```
xStatus Webex Meetings JoinProtocol
*s Webex Meetings JoinProtocol: SIP
** end
```

## xStatus Webex Services Proximity GuestToken

*Applies to: All products*

*Not available for the Webex Devices Cloud xAPI service on personal mode devices.*

Requires user role: ADMIN, USER

Provides the device-specific code that can be used with devices.webex.com. Note that the code will change periodically.

The status is only available for cloud-registered devices.

Value space of the result returned:

*String*

Example:

```
xStatus Webex Services Proximity GuestToken
*s Webex Services Proximity GuestToken: "6K2-WEC-7UZ"
** end
```

## xStatus Webex Status

*Applies to: All products*

Requires user role: ADMIN, USER

Reports the status of the connection between the device and the Webex cloud service. If the cloud service is up and running, the status reports Registered. If the device is registered to an on-premise service such as CUCM or VCS, the status reports Disabled.

Value space of the result returned:

*Disabled/Error/Registered/Registering/Stopped*

Example:

```
xStatus Webex Status
*s Webex Status: Disabled
** end
```

## WebRTC status

### xStatus WebRTC Provider GoogleMeet Availability

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the device can join a GoogleMeet meeting, either from the GoogleMeet button or from the meeting invitation.

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus WebRTC Provider GoogleMeet Availability
*s WebRTC Provider GoogleMeet Availability: Available
** end
```

### xStatus WebRTC Provider MicrosoftTeams Availability

*Applies to: All products*

Requires user role: ADMIN, USER

Shows if the device can join a Microsoft Teams meeting, either from the MSTEams button or from the meeting invitation.

Value space of the result returned:

*Available/Unavailable*

Example:

```
xStatus WebRTC Provider MicrosoftTeams Availability
*s WebRTC Provider MicrosoftTeams Availability: Available
** end
```

## Chapter 6

# Command overview

## Supported commands matrix

Here you can find tables that show the complete list of configurations, commands, and statuses that are supported for devices running RoomOS 11.17.

Configuration.....	589
Command.....	615
Status.....	633

### Information about the tables

**1. Which devices support a configuration, status, or command**

Some entries are supported by all types of devices, while others only exist for a smaller subset.

The following devices are covered:

- Desk series:  
Desk Pro, Desk, Desk Mini
- Room series:  
Codec EQ, Codec Pro, Codec Plus, Room Bar, Room Bar Pro, Room Kit, Room Kit Mini, Room Kit EQX, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama
- Board series:  
Board Pro (55/75), Board Pro G2 (55/75), Board (55/55S/70/70S/85S)

**2. Which call services support a configuration, status, or command**

Some of the configurations, commands, and statuses that are available in the API only apply to on-premises registered devices. They don't apply to Webex registered devices. These items are marked with "On-prem only".

Among the non-applicable configurations, commands, and statuses, are everything that is related to H.323, SIP, NTP, CUCM, LDAP, Proximity, and Far End Camera Control.

**3. How to access each configuration, status, or command**

*Configurations:* You can access all configurations from the device's web interface. A subset is also part of the device's API.

*Commands:* You can only issue commands from the device's API.

*Statuses:* You can request the listed statuses from the device's API. You can access more statuses from the device's web interface.

**4. Which user role is required to use a configuration, status, or command**

A user account may hold one, or a combination, of the following user roles:

- ADMIN (A)
- AUDIT (Au)
- INTEGRATOR (I)
- ROOMCONTROL (R)
- USER (U)

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Apps WallpaperBundles HalfwakelImage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Audio ConnectorSetup	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio DefaultVolume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Ethernet Encryption	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	-	-	-	-	Web, API	A
Audio Ethernet SAPDiscovery Address	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	-	-	-	-	Web, API	A
Audio Ethernet SAPDiscovery Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	-	-	-	-	Web, API	A
Audio Input ARC [n] Mode	-	-	-	-	-	-	-	-	-	X	X	-	X	X	-	-	-	-	-	-	Web, API	A I
Audio Input Ethernet [n] Channel [1..8] Gain	-	-	-	-	X	-	-	X	X	-	-	-	-	-	-	-	-	X	-	-	Web, API	A I
Audio Input Ethernet [n] Channel [1..8] Level	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	X	-	-	-	Web, API	A I
Audio Input Ethernet [n] Channel [1..8] Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] Channel [1..8] Pan	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] Channel [1..8] Zone	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] EchoControl Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] EchoControl NoiseReduction	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] Equalizer ID	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] Equalizer Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input Ethernet [n] Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	-	Web, API	A I
Audio Input HDMI [n] Level	X	-	X	X	-	X	X	-	-	X	X	X	X	X	X	X	X	X	-	-	Web, API	A I
Audio Input HDMI [n] Gain	-	-	-	-	X	-	-	X	X	-	-	-	-	-	-	-	-	X	-	-	Web, API	A I
Audio Input HDMI [n] Mode	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	Web, API	A I
Audio Input HDMI [n] VideoAssociation MuteOnInactiveVideo	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	Web, API	A I
Audio Input Microphone [n] Channel	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] EchoControl Mode	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	-	Web, API	A I
Audio Input Microphone [n] EchoControl Dereverberation	-	-	-	X	-	X	-	X	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Input Microphone [n] EchoControl NoiseReduction	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Audio Input Microphone [n] Equalizer ID	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] Equalizer Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] Level	-	-	-	X	-	X	-	-	-	X	X	X	X	X	X	-	X	-	-	Web, API	A I
Audio Input Microphone [n] Gain	-	-	-	-	X	-	-	X	X	-	-	-	-	-	-	-	-	X	-	Web, API	A I
Audio Input Microphone [n] Mode	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Audio Input Microphone [n] MuteOverride	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] Pan	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] PhantomPower	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] VideoAssociation MuteOnInactiveVideo	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] VideoAssociation VideoInputSource	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Input Microphone [n] Zone	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Audio Input MicrophoneMode	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Microphones BeamMix Inputs	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Audio Input USBC [n] Level	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	Web, API	A I
Audio Input USBC [n] Gain	-	-	-	-	X	-	-	X	X	-	-	-	-	-	-	-	-	X	-	Web, API	A I
Audio Input USBC [n] Mode	X	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Audio Input USBC [n] VideoAssociation MuteOnInactiveVideo	X	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A
Audio Input USBInterface [n] EchoControl Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Input USBInterface [n] Level	-	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Input USBInterface [n] Gain	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Input USBInterface [n] Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Input USBInterface [n] Zone	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Input USBMicrophone [n] EchoControl Mode	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Input USBMicrophone [n] Gain	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	Web, API	A I
Audio Input USBMicrophone [n] Level	X	X	X	X	-	X	X	-	-	-	-	-	-	-	X	-	X	-	-	Web, API	A I
Audio Input USBMicrophone [n] Zone	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I
Audio Input WebView [n] Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Microphones AGC	-	-	-	X	X	X	-	X	X	X	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Microphones HdmiPassthrough MuteButton	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I
Audio Microphones NoiseRemoval Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Audio Microphones Mute Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Audio Microphones NearTalkerSector Mode	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Audio Microphones PhantomPower	-	-	-	-	X	X	-	X	X	X	-	X	-	-	X	-	X	X	-	Web, API	A
Audio Microphones UsbPassthrough MuteButton	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Audio Microphones VoiceActivityDetector Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Audio Output ARC [n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output ARC [n] Delay Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output ARC [n] Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output ConnectorSetup	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Ethernet[n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Ethernet[n] Delay Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Ethernet [n] Mode	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I
Audio Output HDMI [n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output HDMI [n] Delay Mode	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output HDMI [n] Level	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output HDMI [n] Gain	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output HDMI [n] Mode	-	-	-	-	-	-	-	X	X	X	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output InternalSpeaker Mode	X	X	X	-	X	X	-	X	-	X	-	X	X	X	X	-	X	X	-	Web, API	A I
Audio Output Line [n] Channel	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Output Line [n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Delay Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Equalizer ID	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Equalizer Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Level	-	-	-	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Gain	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Mode	-	-	-	-	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Audio Output Line [n] OutputType	-	-	-	-	X	X	-	X	X	X	-	X	-	-	X	-	X	X	-	Web, API	A I
Audio Output USBC [n] Mode	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output USBInterface [n] Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Panning Mode	X	X	X	X	X	-	-	-	-	-	-	X	X	X	X	X	X	X	-	Web, API	A
Audio Panning HeadsetAnalog BinauralProcessing	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Audio Panning HeadsetAnalog Mode	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Audio Panning HeadsetUSB BinauralProcessing	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Audio Panning HeadsetUSB Mode	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Audio Placement	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A
Audio SoundsAndAlerts RingTone	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio SoundsAndAlerts RingVolume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Ultrasound MaxVolume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Audio USB Mode	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I
Audio USB VolumeControl Capture Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio USB VolumeControl Capture Value	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio USB VolumeControl Playback Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio USB VolumeControl Playback Value	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Bluetooth Allowed	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A
Bluetooth Enabled	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER



Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Bookings AdhocBooking BookingTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Bookings AdhocBooking Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Bookings AllowDecline	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Bookings CheckIn Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Bookings CheckIn WindowDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Bookings MaxDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Bookings ProtocolPriority	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
BYOD HidForwarding Enabled	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I
BYOD QRCodePairing	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	Web, API	A
BYOD TouchForwarding Enabled	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	Web, API	A I
BYOD USBXCapi	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
CallHistory Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
CallHistory Recents DisplayName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Cameras Background Enabled	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U
Cameras Background UserImagesAllowed	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Cameras Camera [n] AssignedSerialNumber	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Backlight DefaultMode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Brightness Algorithm	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Brightness DefaultLevel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Cameras Camera [n] Brightness Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Cameras Camera [n] Flip	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Focus Mode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Gamma Level	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] Gamma Mode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] IrCutFilter Mode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	
Cameras Camera [n] IrCutFilter Threshold	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I	

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Cameras Camera [n] Mirror	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Cameras Camera [n] VideoFormat	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Cameras Camera [n] Whitebalance Mode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Cameras Camera [n] Whitebalance Level	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Cameras Camera ColorSaturation Level	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Cameras Camera ExposureCompensation Level	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Cameras Camera Framerate	-	-	-	-	-	X	X	-	-	-	-	-	-	-	X	-	-	-	-	Web, API	A
Cameras PowerLine Frequency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Cameras PresenterTrack CameraPosition Pan	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack CameraPosition Tilt	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack CameraPosition Zoom	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack Connector	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack Enabled	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack PresenterDetectedStatus	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras PresenterTrack TriggerZone	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I
Cameras SpeakerTrack DefaultBehavior	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Cameras SpeakerTrack Frames Mode	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Cameras SpeakerTrack HeadDetectorRange	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A U
Cameras SpeakerTrack MeetingZone Area	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Cameras SpeakerTrack MeetingZone Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Cameras SpeakerTrack ZoomRange MaxZoomFactor	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A U
Cameras SpeakerTrack Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Cameras SpeakerTrack Closeup	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Cameras SpeakerTrack TrackingMode	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Web, API	A I
Cameras SpeakerTrack ConnectorDetection Mode	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Web, API	A I
Cameras SpeakerTrack ConnectorDetection CameraLeft	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Web, API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Cameras SpeakerTrack ConnectorDetection CameraRight	-	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-	-	-	Web, API	A I
Cameras SpeakerTrack Whiteboard Mode	-	-	-	-	X	X	-	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I U
Conference ActiveControl Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference AutoAnswer Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference AutoAnswer Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference AutoAnswer Delay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference CallProtocolIPStack	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference CapsetFilter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference DefaultCall Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference DefaultCall Rate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Conference DefaultCall Webex Rate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Conference DoNotDisturb DefaultTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Conference Diagnostics StreamStatusOverlay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference EmbeddedApp NotificationsOnly	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	Web, API	A I
Conference Encryption Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference EndToEndEncryption Identity PreferredDomain	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference EndToEndEncryption Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference FarEndControl Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference FarEndControl SignalCapability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference FarendMessage Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference HideNonVideo OnCall Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference JoinLeaveNotifications	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference MaxReceiveCallRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference MaxTransmitCallRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference MaxMultisiteReceiveRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference MaxMultisiteTransmitRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference MicUnmuteOnDisconnect Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference Multipoint Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Conference MultiStream Mode	-	-	-	X	-	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A
Conference IncomingMultisiteCall Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference PeopleFocus OnCall Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference Presentation OnPlacedOnHold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference Presentation RelayQuality	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Conference Webex CallProtocolIPStack	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
FacilityService Service [n] CallType	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I
FacilityService Service [n] Name	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I
FacilityService Service [n] Number	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I
FacilityService Service [n] Type	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I
Files Services OneDrive TemporaryPersonalSignIn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Files Services Webex Spaces	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
GPIO Pin [n] Mode	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	Web, API	A I
H323 Authentication Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 Authentication LoginName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 Authentication Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 CallSetup Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 Encryption AES256Support	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 Encryption KeySize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 Gatekeeper Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 H323Alias E164	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 H323Alias ID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 NAT Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
H323 NAT Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
H323 PortAllocation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web	A
HttpClient Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
HttpClient AllowHTTP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
HttpClient AllowInsecureHTTPS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
HttpClient UseHttpProxy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
HttpFeedback TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
HttpFeedback UseHttpProxy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging CloudUpload Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Logging Debug Bluetooth	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Logging Debug Wifi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Logging External Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging External Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging External Server Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging External Server Port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging External TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging Internal Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Macros EvaluateTranspiled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Macros Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Macros AutoStart	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Macros Diagnostics JavascriptErrors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Macros QuickJSEngine	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Macros UnresponsiveTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
MicrosoftTeams Diagnostics ShowUnsupportedConsoleNotification	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A	
Network [n] DNS DNSSEC Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

X: Supported - : Not supported

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Network [n] DNS Domain Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Network [n] DNS Server [m] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X UseClientCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Identity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X AnonymousIdentity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Eap Md5	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Eap Ttls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Eap Tls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IEEE8021X Eap Peap	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPStack	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv4 Assignment	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv4 Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv4 Gateway	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv4 InterfacelIdentifier	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv4 SubnetMask	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv6 Assignment	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv6 Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv6 Gateway	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv6 DHCPOptions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] IPv6 InterfacelIdentifier	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] MTU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] QoS Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] QoS Diffserv Audio	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Network [n] QoS Diffserv Video	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Network [n] QoS Diffserv Data	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] QoS Diffserv Signalling	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] QoS Diffserv ICMPv6	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] QoS Diffserv NTP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] RemoteAccess Allow	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] Speed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Network [n] TrafficControl Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Network [n] VLAN Voice Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] VLAN Voice VlanId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices CDP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices CommonProxy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
NetworkServices H323 Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
NetworkServices HTTP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTP Proxy Authentication Method	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
NetworkServices HTTP Proxy LoginName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTP Proxy Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTP Proxy PACUrl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTP Proxy Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTP Proxy Url	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTPS OCSP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
NetworkServices HTTPS OCSP URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
NetworkServices HTTPS Server MinimumTLSVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTPS StrictTransportSecurity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTPS VerifyClientCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices NTP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role		
NetworkServices NTP Server [n] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A	
NetworkServices NTP Server [n] Key	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
NetworkServices NTP Server [n] KeyId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
NetworkServices NTP Server [n] KeyAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
NetworkServices SIP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices SMTP Mode	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP Server	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP Port	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP Username	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP Password	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP From	X	X	X	X	X	-	X	X	-	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SMTP Security	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A		
NetworkServices SNMP CommunityName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
NetworkServices SNMP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
NetworkServices SNMP SystemContact	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
NetworkServices SNMP SystemLocation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
NetworkServices SSH KeyExchangeAlgorithms AllowLegacy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices SSH Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices SSH HostKeyAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices UPnP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices UPnP Timeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A	
NetworkServices Websocket	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices WelcomeText	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
NetworkServices Wifi Allowed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
NetworkServices Wifi Settings A_MPDU	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A	
NetworkServices Wifi Settings FrequencyBand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
NetworkServices Wifi Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A U	
NetworkServices XMLAPI Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Peripherals ActivePen Enabled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web	A	
Peripherals InputDevice Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A	
Peripherals Pairing CiscoTouchPanels EmcResilience	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A	
Peripherals Pairing CiscoTouchPanels HttpProxy	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Peripherals Pairing CiscoTouchPanels RemotePairing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Peripherals Profile Cameras	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Peripherals Profile Cameras	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	Web	A I	
Peripherals Profile ControlSystems	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
Peripherals Profile NetworkSwitches	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web	A I	
Peripherals Profile TouchPanels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Peripherals Security Certificates SyncToPeripherals Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Phonebook Server [n] ID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Phonebook Server [n] Pagination	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A	
Phonebook Server [n] TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A	
Phonebook Server [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Phonebook Server [n] URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Provisioning Connectivity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Provisioning CUCM CallManagementRecords CallDiagnostics	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Provisioning ExternalManager Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Provisioning ExternalManager AlternateAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Provisioning ExternalManager Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Provisioning ExternalManager Path	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Provisioning ExternalManager Domain	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Provisioning Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Provisioning LoginName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Provisioning Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Provisioning TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Provisioning WebexEdge	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Proximity AlternatePort Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
Proximity Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U	
Proximity Services CallControl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Proximity Services ContentShare FromClients	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Proximity Services ContentShare ToClients	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
RoomAnalytics AmbientNoiseEstimation Interval	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics AmbientNoiseEstimation Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics PeopleCountOutOfCall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics PeoplePresenceDetector	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics PeoplePresence Input HeadDetector	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomAnalytics PeoplePresence Input Ultrasound	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomAnalytics ReverberationTime Interval	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics ReverberationTime Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics RoomInUse InCall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomAnalytics RoomInUse LocalUsage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomAnalytics T3AlarmDetection Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
RoomAnalytics T3AlarmDetection Timeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
RoomCleanup AutoRun ContentType TemporaryAccounts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomCleanup AutoRun ContentType WebData	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomCleanup AutoRun ContentType Whiteboards	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
RoomCleanup AutoRun HourOfDay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	

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RoomReset Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A	
RoomScheduler BookingTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RoomScheduler Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler State Available Color	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler State Busy Color	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler State Pending Color	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Ports Range Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Ports Range Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Audio Ports Range Webex Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Audio Ports Range Webex Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Video Ports Range Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Video Ports Range Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Video Ports Range Webex Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RTP Video Ports Range Webex Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Audit Logging Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	Au
Security Audit OnError Action	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	Au
Security Audit Server Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	Au
Security Audit Server Port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	Au
Security Audit Server PortAssignment	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	Au
Security Fips Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session FailedLoginsLockoutTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session InactivityTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session MaxFailedLogins	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session MaxSessionsPerUser	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session MaxTotalSessions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Session ShowLastLogon	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Security Xapi WebSocket ApiKey Allowed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Sensors Radar Mode	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A
Sensors Ultrasound Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
SerialPort Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
SerialPort BaudRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
SerialPort LoginRequired	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SerialPort Outbound Mode	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SerialPort Outbound Port [1] BaudRate	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SerialPort Outbound Port [1] Description	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SerialPort Outbound Port [1] Parity	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SIP ANAT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP Authentication UserName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP Authentication Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP DefaultTransport	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP DisplayName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP Ice DefaultCandidate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
SIP Ice Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
SIP Line	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SIP ListenPort	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP Mailbox	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SIP MinimumTLSVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP PreferredIPSignaling	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SIP Proxy [n] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP TlsVerify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SIP Turn Server	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
SIP Turn UserName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
SIP Turn Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
SIP Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SIP URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Standby BootAction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Standby BrightnessDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Delay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Halfwake Screensaver	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I
Standby Level Networked Delay	-	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I	
Standby Level Networked Mode	-	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I	
Standby Halfwake Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Standby Signage Audio	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Signage InteractionMode	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I	
Standby Signage Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Signage RefreshInterval	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby Signage Url	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby StandbyAction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Standby WakeupAction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Standby WakeupAtMeetingStart	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Standby WakeupOnMotionDetection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
SystemUnit Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SystemUnit BroadcastName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SystemUnit CrashReporting Advanced	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SystemUnit CrashReporting Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SystemUnit CrashReporting URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SystemUnit CustomDeviceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I

X: Supported - : Not supported

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
SystemUnit Extension MouseSupport	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A	
SystemUnit Hardware USBC[1] Mode	-	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
SystemUnit SoftwareUpgrade Provider	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A	
SystemUnit SoftwareUpgrade WebCache Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
SystemUnit SoftwareUpgrade WebCache Url	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
ThousandEyes ConnectionString	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time DateFormat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Time TimeFormat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Time Zone	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Time OfficeHours Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours OutsideOfficeHours Standby AutoWakeup	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours OutsideOfficeHours Standby Delay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkDay End	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Time OfficeHours WorkDay Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Time OfficeHours WorkWeek Monday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Tuesday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Wednesday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Thursday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Friday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Saturday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Time OfficeHours WorkWeek Sunday	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInteraction RaiseHand CMS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web	A U
UserInterface Accessibility IncomingCallNotification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Assistant Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Assistant ProactiveMeetingJoin	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Bookings AdhocBooking DefaultTitle	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface Bookings Visibility EarlyJoin	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
UserInterface Bookings Visibility JoinedParticipants Avatars	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Bookings Visibility MeetingReminder	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Bookings Visibility Organizer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Bookings Visibility TentativeMeetings	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Bookings Visibility Title	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Branding AwakeBranding Colors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface CameraControl Presets Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface ContactInfo Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface CustomMessage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface InstantMeeting Invite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface WallpaperFillMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I U
UserInterface CustomWallpaperOverlay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Diagnostics Notifications	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Features Calendar Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call AudioMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call CameraControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call End	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call HdmiPassthrough	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	-	Web, API	A I
UserInterface Features Call JoinGoogleMeet	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call JoinMicrosoftTeamsCVI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call JoinZoom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call JoinWebex	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Keypad	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface Features Call LayoutControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
UserInterface Features Call MidCallControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call MusicMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call ParticipantList	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call SelfviewControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call VideoMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Webcam	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I	
UserInterface Features Files Start	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface Features HideAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Share Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Whiteboard Start	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface Help Tips	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface HomeScreen Dashboard	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface HomeScreen Peripherals WebApp URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface KeyTones Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Kiosk Mode	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface Kiosk URL	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface Language	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface LedControl Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface LiveAnnotation Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface MeetingJoin CVITenants	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface MuteWarning	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface NameAndSiteLabels Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface OSD EncryptionIndicator	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface OSD HalfwakeMessage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	

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Configuration	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface OSD Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
UserInterface OSD Output	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Phonebook DefaultSearchFilter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Phonebook Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Proximity Notifications	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface RoomScheduler AmbientTemperature Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler PeopleCount Current	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler StatusWhenInUse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomStatusMenu Visibility	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface ScreenLock Policy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface ScreenLock Workspace Allowed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Security Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface SettingsMenu Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface SettingsMenu Visibility	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface SoundEffects Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Theme Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Wallpaper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I U
UserInterface UsbPromotion	-	-	-	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
UserInterface WebcamOnlyMode	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
UserInterface Whiteboard ActivityIndicators	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Whiteboard DefaultTheme	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
UserInterface Whiteboard Deletion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Whiteboard ShareInCall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserManagement LDAP Admin Filter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Admin Group	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Attribute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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UserManagement LDAP BaseDN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A	
UserManagement LDAP BindDN	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP BindPassword	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Encryption	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP MemberAttribute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP MinimumTLSVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Server Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP Server Port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement LDAP VerifyServerCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy Complexity MinimumDigits	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy Complexity MinimumLength	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy Complexity MinimumLowercase	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy Complexity MinimumSpecial	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy Complexity MinimumUppercase	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy MaxLifetime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserManagement PasswordPolicy ReuseLimit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video ActiveSpeaker DefaultPIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I
Video DefaultLayoutFamily Local	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video DefaultLayoutFamily LocalContent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video DefaultLayoutFamily Remote	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Video DefaultMainSource	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input AirPlay Beacon	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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Video Input AirPlay DiscoveryInstructions NetworkName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input AirPlay DiscoveryInstructions ShowNetworkInfo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input AirPlay Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input AirPlay Password	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input AirPlay SecurityMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input CameraConfigMode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Video Input Connector [n] CameraControl CameraId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] CameraControl Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] CEC Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] HDCP Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I
Video Input Connector [n] InputSourceType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] MaxResolution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] OptimalDefinition Profile	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I
Video Input Connector [n] OptimalDefinition Threshold60fps	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
Video Input Connector [n] PreferredResolution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] PresentationSelection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] Quality	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] RGBQuantizationRange	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Connector [n] Visibility	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Input Miracast Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input Miracast MaxBitrate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input Miracast Pin Length	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Input Miracast PresentationSelection	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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Video Input Miracast Quality	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
Video Input Miracast Transport	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Monitors	X	X	X	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] Brightness	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	Web	A U	
Video Output Connector [n] BrightnessMode	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U	
Video Output Connector [n] CEC Mode	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector[n] ContentType	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] HDCPPolicy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
Video Output Connector [n] Location HorizontalOffset	X	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] Location VerticalOffset	X	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] MonitorRole	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] Resolution	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
Video Output Connector [n] RGBQuantizationRange	X	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I	
Video Output Connector [n] TouchInput Mode	-	-	-	X	X	-	X	-	X	-	X	-	-	-	-	-	-	-	-	Web	A I	
Video Output HDMI Passthrough Allowed	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A	
Video Output HDMI Passthrough HdmiUsbConverter Mode	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I	
Video Output HDMI Passthrough HdmiUsbConverter Name	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I	
Video Output HDMI Passthrough OutputConnector	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I	
Video Output HDMI Passthrough AutoDisconnect Enabled	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I	
Video Output HDMI Passthrough AutoDisconnect Delay	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I	
Video Output MirroringType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I	
Video Output Webcam USBMode	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I	
Video Output Connector [n] Whitebalance Level	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	Web	A U	
Video Presentation DefaultPIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A I	

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Video Presentation DefaultSource	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Video Presentation Priority	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Video Selfview Default FullscreenMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Selfview Default Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Selfview Default OnMonitorRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Selfview Default PIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Selfview OnCall Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video Selfview OnCall Duration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
VoiceControl Wakeword Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
WebEngine Certificates RevocationChecks NetworkAccess	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features AllowDeviceCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features GpuRasterization	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features LocalWebAppManagement	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	X	X	X	-	Web, API	A	
WebEngine Features Peripherals AudioOutput	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features Peripherals WebGL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features WebGL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features SipUrlHandler	X	X	X	-	-	-	X	-	-	-	-	-	-	-	-	X	X	X	-	Web, API	A	
WebEngine Features Xapi Peripherals AllowedHosts Hosts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine FpsCounter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
WebEngine MinimumTLSVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine RemoteDebugging	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine UseHttpProxy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Webex CloudProximity GuestShare	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Webex CloudProximity ManualPairing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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Webex CloudUpgrades Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Webex DevicePersonalization Features Whiteboard SignInRequired	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	Web	A
Webex Hotdesking DefaultBookingEndTime	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
Webex Meetings HttpProxyForMedia Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Webex Meetings JoinProtocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A
Webex Meetings MeetingChatNotifications Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Webex Meetings MeetingChatPreview	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Webex ProvisionalActivationService	X	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web	A
WebRTC EndCallTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web	A
WebRTC InteractionMode	X	X	X	-	-	-	X	-	-	-	-	-	-	-	-	X	X	X	-	Web	A
WebRTC Provider MicrosoftTeams CompatibilityMode	X	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	Web, API	A
Zoom DefaultDomain	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Zoom DialStringOptions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
AirPlay KeyEvent Back	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Click	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Down	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent FastForward	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent FastReverse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Left	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Play	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Right	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay KeyEvent Up	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
AirPlay ResetPairedDevices	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Audio Diagnostics Advanced Run	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Diagnostics AecReverb Reset	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Diagnostics AecReverb Run	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Diagnostics MeasureDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Equalizer List	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio Equalizer Update	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput Add	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput AddConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput Remove	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput RemoveConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput Update	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalInput Ethernet Deregister	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalInput Ethernet PacketStatisticsReset	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalInput Ethernet Register	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalOutput Add	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput AddConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio LocalOutput ConnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput DisconnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput Ethernet Deregister	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalOutput Ethernet Register	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalOutput Remove	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput RemoveConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput Update	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio LocalOutput UpdateInputGain	X	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio Microphones MusicMode Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones MusicMode Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones NoiseRemoval Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones NoiseRemoval Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones Passthrough Start	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	API	A I
Audio Microphones Passthrough Stop	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	API	A I
Audio Microphones ToggleMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Microphones Unmute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio RemoteOutput ConnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio RemoteOutput DisconnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio RemoteOutput UpdateInputGain	X	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio Select	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	API	A U
Audio Setup Clear	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio Setup Reset	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A
Audio Sound Play	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Sound Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio SpeakerCheck	-	-	-	-	-	-	-	X	-	-	-	X	X	X	-	-	-	-	-	API	A I U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER



Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Audio SoundsAndAlerts Ringtone List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U	
Audio SoundsAndAlerts Ringtone Play	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio SoundsAndAlerts Ringtone Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume Decrease	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume Increase	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume SetToDefault	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume ToggleMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio Volume Unmute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio VuMeter Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio VuMeter Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Audio VuMeter StopAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bluetooth Streaming Next	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	API	A I U	
Bluetooth Streaming Pause	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	API	A I U	
Bluetooth Streaming Play	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	API	A I U	
Bluetooth Streaming Previous	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	API	A I U	
Bookings Book	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Edit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Extend	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings NotificationSnooze	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings Respond	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U

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Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Bookings Put	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A	
Call Accept	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call Disconnect	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Call DTMFSend	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl Camera Move	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl Camera Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl RequestCapabilities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl RoomPreset Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl RoomPreset Store	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndControl Source Select	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call FarEndMessage Send	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
Call Forward	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
Call Hold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call Ignore	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call Join	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call Reject	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call Resume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Call UnattendedTransfer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
CallHistory AcknowledgeAllMissedCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
CallHistory AcknowledgeMissedCall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
CallHistory DeleteAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
CallHistory DeleteEntry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
CallHistory Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
CallHistory Recents	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera InstallationTilt Ramp	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A
Camera PositionReset	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	-	API	A I U

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Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Camera PositionSet	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U	
Camera Preset Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset ActivateDefaultPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset Edit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Preset Store	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Camera Ramp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Camera TriggerAutofocus	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	API	A U	
Camera TriggerWhitebalance	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	API	A U	
Cameras AutoFocus Diagnostics Start	-	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-	API	A I	
Cameras AutoFocus Diagnostics Stop	-	-	-	-	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-	API	A I	
Cameras Background Clear	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background Delete	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background Fetch	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background ForegroundParameters Reset	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background ForegroundParameters Set	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background Get	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background List	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background Set	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras Background Upload	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A I U	
Cameras PresenterTrack ClearPosition	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	API	A I U	
Cameras PresenterTrack Set	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	API	A I U	
Cameras PresenterTrack StorePosition	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	API	A I U	
Cameras SpeakerTrack Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U	

X: Supported - : Not supported

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Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Cameras SpeakerTrack Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Cameras SpeakerTrack Calibration Diagnostics Start	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	API	A I U
Cameras SpeakerTrack Calibration Diagnostics Stop	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	API	A I U
Cameras SpeakerTrack BackgroundMode Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Cameras SpeakerTrack BackgroundMode Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Cameras SpeakerTrack Diagnostics Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Cameras SpeakerTrack Diagnostics Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Cameras SpeakerTrack Frames Activate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Cameras SpeakerTrack Frames Deactivate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Cameras SpeakerTrack ViewLimits Activate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Cameras SpeakerTrack ViewLimits Deactivate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Cameras SpeakerTrack ViewLimits StorePosition	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Cameras SpeakerTrack Whiteboard ActivatePosition	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	-	-	-	API	A U
Cameras SpeakerTrack Whiteboard AlignPosition	-	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	API	A U
Cameras SpeakerTrack Whiteboard SetDistance	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	-	-	-	API	A U
Cameras SpeakerTrack Whiteboard StorePosition	-	-	-	X	X	X	-	X	X	X	X	X	X	X	X	-	-	-	-	API	A U
Conference AdmitAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Call AuthenticationResponse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference DoNotDisturb Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Conference DoNotDisturb Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Conference EndMeeting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Hand Lower	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Hand Raise	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference HardMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Lock	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference LowerAllHands	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference MeetingAssistant Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U	
Conference MeetingAssistant Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference MuteAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference MuteOnEntry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant Admit	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant Disconnect	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant LowerHand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant MoveToLobby	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference ParticipantList Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference PeopleFocus Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference PeopleFocus Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Reaction Disable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Reaction Enable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Reaction Send	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Recording Pause	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Recording Resume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Recording Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Recording Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference SendEmailInvitation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Conference SkinTone	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference Participant TransferRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference SimultaneousInterpretation SelectLanguage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference SimultaneousInterpretation SetMixer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Conference SpeakerLock Release	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference SpeakerLock Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
Conference TransferHostAndLeave	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Diagnostics Run	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Dial	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
GPIO ManualState Set	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	API	A U
HttpClient Allow Hostname Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Allow Hostname Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Allow Hostname List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Allow Hostname Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Patch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Post	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpClient Put	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpFeedback Deregister	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpFeedback Enable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
HttpFeedback Register	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Logging AddEvent	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Logging ExtendedLogging Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Logging ExtendedLogging Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Logging SendLogs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Macros Log Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Log Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

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A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Macros Macro Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A	
Macros Macro RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Rename	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Roles Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Macro Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Runtime Restart	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Runtime Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Runtime Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Macros Runtime Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Message Send	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
MicrosoftTeams Install	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A	
MicrosoftTeams List	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A	
MicrosoftTeams Reset	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A	
MicrosoftTeams SoftwareUpgrade	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A	
Network SMTP VerifyConfig	X	X	X	-	-	-	X	-	-	-	-	-	-	-	-	X	X	X	-	API	A U	
Network SNMP USM User Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Network SNMP USM User Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Network SNMP USM User List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Network Wifi Configure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Network Wifi Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Network Wifi List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Network Wifi Scan Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Network Wifi Scan Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Peripherals Connect	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
Peripherals DeviceManagement Disable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals DeviceManagement Enable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Peripherals HeartBeat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
Peripherals List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
Peripherals Pairing PinPairing Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals Pairing PinPairing Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals Pairing Unpair	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Peripherals Purge	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Peripherals TouchPanel Configure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Peripherals UserManagement User Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User Modify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User Passphrase Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals UserManagement User Unblock	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Phonebook Contact Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Contact Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Contact Modify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook ContactMethod Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook ContactMethod Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook ContactMethod Modify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Folder Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Folder Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Folder Modify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Phonebook Search	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Presentation Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Presentation Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U

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Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Provisioning CompleteUpgrade	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U	
Provisioning PostponeUpgrade	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Provisioning CUCM ExtensionMobility Login	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
Provisioning CUCM ExtensionMobility Logout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A U
Provisioning RoomType Activate	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	-	-	-	-	API	A I
Provisioning Service Fetch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Proximity Services Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Proximity Services Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RoomCleanup Cancel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RoomCleanup Run	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RoomPreset Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RoomPreset Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RoomPreset Store	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates CA Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates CA Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates CA Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates CSR Create	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates CSR Link	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates CUCM CTL Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates CUCM CTL Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates CUCM ITL Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates CUCM MIC Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates Services Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates Services Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates Services Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates Services Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Security Certificates Services Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U	
Security Certificates ThirdParty Disable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates ThirdParty Enable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates ThirdParty List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates ThirdParty Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates Webex Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Certificates WebexIdentity Show	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Security Ciphers List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security ClientSecret Populate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Persistency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A
Security Session Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A Au I R U
Security Session List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Session Terminate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SerialPort PeripheralControl Send	X	X	X	X	X	X	X	X	X	X	X	-	-	-	X	-	X	X	-	API	A I	
Standby Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Standby Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Standby Halfwake	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Standby ResetHalfwakeTimer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Standby ResetTimer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
SystemUnit Boot	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
SystemUnit DeveloperPreview Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit DeveloperPreview Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit FactoryReset	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
SystemUnit FirstTimeWizard Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
SystemUnit Notifications RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit OptionKey Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
SystemUnit OptionKey List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A	
SystemUnit OptionKey Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit OptionKey RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit ProductPlatform Set	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	-	API	A
SystemUnit SignInBanner Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit SignInBanner Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
SystemUnit SignInBanner Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit SoftReset	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
SystemUnit SoftwareUpgrade	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit WelcomeBanner Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
SystemUnit WelcomeBanner Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A Au I R U
SystemUnit WelcomeBanner Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Time DateTime Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Time DateTime Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
UserInterface Branding Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
UserInterface Branding Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface Branding Fetch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface Branding Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface Branding Updated	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface Branding Upload	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface Extensions Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions Export	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions Icon Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Extensions Icon DeleteAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
UserInterface Extensions Icon Download	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Icon Fetch	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Icon Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Icon List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Icon Upload	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	IRU
UserInterface Extensions Panel Clicked	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Panel Close	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Panel Open	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Panel Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions Panel Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions Panel Update	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions WebApp Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions WebWidget Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions WebWidget Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions Widget Action	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Extensions Widget SetValue	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Extensions Widget UnsetValue	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface LedControl Color Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AI

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface Message Alert Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message Alert Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Message Prompt Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message Prompt Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Message Prompt Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message Rating Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message Rating Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message Rating Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message TextInput Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message TextInput Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Message TextInput Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message TextLine Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Message TextLine Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Presentation ExternalSource Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Presentation ExternalSource List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Presentation ExternalSource Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Presentation ExternalSource RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface Presentation ExternalSource Select	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIRU
UserInterface Presentation ExternalSource State Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	AIR
UserInterface ScreenLock AdminInitiateRecovery	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface Translation Override Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A	
UserInterface Translation Override Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface Translation Override Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface WallpaperBundle Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface WallpaperBundle List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface WallpaperBundle Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface WebView Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserInterface WebView Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserManagement RemoteSupportUser Create	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement RemoteSupportUser Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement RemoteSupportUser DisablePermanently	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement RemoteSupportUser GetState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Modify	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Passphrase Change	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A Au I R U
UserManagement User Passphrase Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserManagement User Unblock	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserPresence CustomStatus Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserPresence CustomStatus GetRecentsList	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
UserPresence CustomStatus Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video ActiveSpeakerPIP Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video CEC Input KeyClick	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Video CEC Output KeyClick	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	API	A I
Video CEC Output SendActiveSourceRequest	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	API	A I
Video CEC Output SendInactiveSourceRequest	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	API	A I
Video Graphics Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Graphics Text Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Input MainVideo Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Input MainVideo Unmute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Input SetMainVideoSource	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	API	A I U
Video Layout HideNonVideo Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout HideNonVideo Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout LayoutFamily Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout SetLayout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout StageParticipants Reset	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout StageParticipants Set ById	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Layout StageParticipants Set ByName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video Matrix Assign	-	-	-	X	X	X	-	X	X	X	X	X	X	X	-	-	-	-	-	API	A I U
Video Matrix Reset	-	-	-	X	X	X	-	X	X	X	X	X	X	X	-	-	-	-	-	API	A I U
Video Matrix Swap	-	-	-	X	X	X	-	X	X	X	X	X	X	X	-	-	-	-	-	API	A I U
Video Matrix Unassign	-	-	-	X	X	X	-	X	X	X	X	X	X	X	-	-	-	-	-	API	A I U
Video Output HDMI Passthrough Start	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	API	A U
Video Output HDMI Passthrough Stop	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	API	A U
Video Output Monitor Backlight Set	X	-	-	-	-	-	-	-	-	-	-	X	X	X	-	X	-	-	-	API	A
Video Output Monitor Color Select	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	API	A
Video Output Monitor Reset	-	-	-	-	-	-	-	-	-	-	-	X	X	-	-	X	-	-	-	API	A
Video PresentationPIP Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Video PresentationView Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Command	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Video Selfview Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U	
WebEngine AllowInsecureHttps Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine AllowInsecureHttps List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine AllowInsecureHttps Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine AllowInsecureHttps RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine DeleteStorage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine Logging Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
WebEngine MediaAccess Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine MediaAccess List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine MediaAccess Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine MediaAccess RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
WebEngine Tracing Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
WebEngine Tracing Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Webex Hotdesking SetSupport	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	API	A
Webex Join	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Webex Meetings InstantMeeting Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Webex Registration Cancel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Webex Registration ConvertToCloud	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	API	A
Webex Registration Logout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Webex Registration Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
WebRTC Join	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
WebRTC Provider Current Diagnostics Send	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
WebRTC Provider GoogleMeet MeetingNumber Validate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Whiteboard Email Cancel	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	-	API	A I
Whiteboard Email Send	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	-	API	A I
Zoom Join	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER



Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Devices Bluetooth ActiveProfile	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Audio Devices HandsetUSB ConnectionStatus	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Devices HandsetUSB Cradle	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Devices HeadsetAnalog ConnectionStatus	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U
Audio Devices HeadsetUSB ConnectionStatus	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Devices HeadsetUSB Description	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Devices HeadsetUSB Manufacturer	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Input Connectors Ethernet [n] Mute	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Connectors Ethernet [n] PacketsLost Total	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Connectors Ethernet [n] PacketsReceived Total	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Connectors Ethernet [n] StreamName	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Ethernet DiscoveredStream [n] Channels	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Ethernet DiscoveredStream [n] MediaIP	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Ethernet DiscoveredStream [n] Name	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Ethernet DiscoveredStream [n] OriginIP	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input Ethernet DiscoveredStream [n] Status	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output Connectors Ethernet [n] Channels	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I
Audio Output Connectors Ethernet [n] DelayMs	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output Connectors Ethernet [n] MediaIP	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I
Audio Output Connectors Ethernet [n] StreamName	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I
Audio Input Connectors HDMI [n] Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Input Connectors Line [n] Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Input Connectors Microphone [n] ConnectionStatus	-	-	-	X	X	X	X	X	X	X	-	X	-	-	X	-	X	X	-	Web, API	A I U
Audio Input Connectors Microphone [n] EcReferenceDelay	-	-	-	-	-	X	X	X	X	X	X	X	X	X	-	X	-	-	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Input Connectors Microphone [n] Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Input Connectors USBC [n] Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Input LocalInput [n] AGC	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] Channels	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] Connector [n]	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] Direct	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] MixerMode	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] Mute	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input LocalInput [n] Name	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Input RemoteInput [n] CallId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Microphones MusicMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Microphones Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Microphones NoiseRemoval	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Microphones VoiceActivityDetector Activity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio Output Connectors ARC [n] DelayMs	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I U
Audio Output Connectors ARC [n] Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I U
Audio Output Connectors HDMI [n] DelayMs	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I U
Audio Output Connectors HDMI [n] MicPassthrough	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I
Audio Output Connectors HDMI [n] Mode	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	Web, API	A I U
Audio Output Connectors InternalSpeaker [n] DelayMs	-	-	-	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	-	Web, API	A I U
Audio Output Connectors InternalSpeaker [n] Mode	-	-	-	X	X	-	X	-	-	X	X	-	-	-	-	-	-	-	-	Web, API	A I U
Audio Output Connectors Line [n] ConnectionStatus	-	-	-	-	X	X	-	X	X	X	-	X	-	-	X	X	X	X	-	Web, API	A I U
Audio Output Connectors Line [n] DelayMs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] AutoconnectRemote	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output LocalOutput [n] Channels	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output LocalOutput [n] Connector [n]	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio Output LocalOutput [n] Input [n] Gain	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output LocalOutput [n] Loudspeaker	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output LocalOutput [n] Name	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output LocalOutput [n] VolumeControlled	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output MeasuredHdmiArcDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Output MeasuredHdmiDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Output ReportedHdmiCecDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Output RemoteOutput [n] CallId	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio Output RemoteOutput [n] Input [n] Gain	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Audio SelectedDevice	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio Ultrasound Volume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Audio USB ConnectionStatus Capture	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB ConnectionStatus Playback	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB Product	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB TerminalType Capture	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB TerminalType Playback	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Capture Max	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Capture Min	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Capture Value	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Playback Max	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Playback Min	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio USB VolumeControl Playback Value	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio Volume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Audio VolumeHandsetUsb	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio VolumeHeadsetAnalog	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Audio VolumeHeadsetBluetooth	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Audio VolumeHeadsetUsb	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio VolumeInternal	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Audio VolumeMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Bluetooth Streaming Album	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth Streaming Artist	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth Streaming Duration	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth Streaming State	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth Streaming Title	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bookings Availability Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Bookings Availability TimeStamp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Bookings Current Id	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] AnswerState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] AttendedTransferFrom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Call [n] CallbackNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] CallType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] DeviceType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Direction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] DisplayName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Duration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Encryption Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] FacilityServiceId	X	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	X	Web, API	A I U
Call [n] HoldReason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Ice	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] PlacedOnHold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Call [n] ReceiveCallRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
Call [n] RemoteNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Call [n] TransmitCallRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Cameras Background Image	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I R U
Cameras Background Mode	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I R U
Cameras Camera [n] Capabilities Options	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] Connected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] DetectedConnector	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	-	Web, API	A I R U
Cameras Camera [n] Flip	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	-	Web, API	A I R U
Cameras Camera [n] Framerate	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	-	Web, API	A I R U
Cameras Camera [n] HardwareID	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	-	Web, API	A I R U
Cameras Camera [n] Lenses [n] Lens	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] LightingConditions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] MacAddress	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	-	Web, API	A I R U
Cameras Camera [n] Manufacturer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] Model	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Cameras Camera [n] Position Focus	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I R U
Cameras Camera [n] Position Lens	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I R U
Cameras Camera [n] Position Pan	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] Position Roll	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I R U
Cameras Camera [n] Position Tilt	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] Position Zoom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras Camera [n] SerialNumber	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I R U
Cameras Camera [n] SoftwareID	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	X	X	X	-	Web, API	A I R U
Cameras PresenterTrack Availability	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I R U
Cameras PresenterTrack PresenterDetected	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I R U
Cameras PresenterTrack Status	-	-	-	-	X	-	-	X	X	X	X	X	X	-	-	-	X	X	-	Web, API	A I R U
Cameras SpeakerTrack ActiveConnector	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack BackgroundMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack Frames Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack Frames Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Cameras SpeakerTrack State	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack ViewLimits Pan	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack ViewLimits Status	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack ViewLimits Tilt	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Cameras SpeakerTrack ViewLimits Zoom	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Capabilities Conference MaxActiveCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Capabilities Conference MaxAudioCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Capabilities Conference MaxCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Capabilities Conference MaxVideoCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference ActiveSpeaker CallId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] AuthenticationRequest	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Conference Call [n] BookingId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities AdmitFromLobby	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Caption	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities DisableReactions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities DTMF	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities EnableReactions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities EndMeeting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities EmergencyCallCapability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	Web, API	A U
Conference Call [n] Capabilities HardMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities FarendMessage Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference Call [n] Capabilities FECC Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] Capabilities FECC NumberOfPresets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] Capabilities FECC NumberOfSources	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] Capabilities FECC Source [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities FECC Source [n] Options	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] Capabilities FECC Source [n] SourceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Conference Call [n] Capabilities Hold	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities IsModerator	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities IxChannel Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	
Conference Call [n] Capabilities LockControl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities LowerAllHands	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities LowerParticipantsHand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities MeetingAssistant Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities MeetingAssistant Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities MoveToLobby	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities MuteAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities MuteOnEntry	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities ParticipantAdd	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities ParticipantDisconnect	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities ParticipantList	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities ParticipantMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities ParticipantRequestUnmute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER



Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference Call [n] Capabilities Presentation	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Conference Call [n] Capabilities RaiseHand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Reactions	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Recording Pause	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Recording Resume	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Recording Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities Recording Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities SelfMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities TransferHostAndLeave	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Capabilities UnmuteAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] EventCenter Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] HardMuted	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Locked	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Manufacturer	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] MeetingAssistantEnabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] MeetingPlatform	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Meeting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] MicrophonesMuted	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] ProximityCall	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] RaiseHand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Recording	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] SimultaneousInterpretation Languages [n] LanguageCode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] SimultaneousInterpretation Languages [n] LanguageName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] SimultaneousInterpretation MixerLevel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Conference Call [n] SimultaneousInterpretation SelectedLanguage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] SessionType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Sip SessionId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] SoftwareId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Streamed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Transcoded	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Call [n] Webex MeetingInviteLink	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference DoNotDisturb	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Conference EndToEndEncryption Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] Fingerprint	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] NotAfter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] NotBefore	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] PrimaryName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] PublicKeyAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] SignatureAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] Subject [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity CertificateChain Certificate [n] Validity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption Externalldentity Identity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Conference EndToEndEncryption ExternalIdentity Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption ExternalIdentity Verification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Fingerprint	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotAfter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] NotBefore	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PrimaryName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] PublicKeyAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] SignatureAlgorithm	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Subject [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity CertificateChain Certificate [n] Validity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity Identity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference EndToEndEncryption InternalIdentity Verification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference HideNonVideo Active	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference HideNonVideo Available	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Line [n] Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Conference Multipoint Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Conference PeopleFocus Active	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference PeopleFocus Available	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Presentation CallId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Conference Presentation LocalInstance [n] DirectShare	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Conference Presentation LocalInstance [n] SendingMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Conference Presentation LocalInstance [n] Source	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Conference Presentation Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Conference Presentation Whiteboard BoardUrl	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference Presentation Whiteboard Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference SelectedCallProtocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference SpeakerLock CallId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Conference SpeakerLock Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Diagnostics Message [n] Description	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Diagnostics Message [n] Level	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Diagnostics Message [n] References	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Diagnostics Message [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
GPIO Pin [n] State	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	-	Web, API	A I U
H323 Gatekeeper Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
H323 Gatekeeper Port	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
H323 Gatekeeper Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
H323 Gatekeeper Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
H323 Mode Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
H323 Mode Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
HttpFeedback [n] Expression [n]	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
HttpFeedback [n] Format	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
HttpFeedback [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
HttpFeedback [n] URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Local Candidate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Local IP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Local Transport	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Remote Candidate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Remote IP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaLine [n] Remote XtlsFqdnHost	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] MediaPath	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] NegotiationTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ICE Call [n] Result	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Logging ExtendedLogging Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Logging ExtendedLogging PacketDump	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Logging ExtendedLogging RenderingDump	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Audio ChannelRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Audio Channels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Audio Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Audio Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Direction	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Encryption	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat Bytes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat ChannelRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
MediaChannels Call [n] Channel [n] Netstat EndToEndDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat Jitter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat LastIntervalLost	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat LastIntervalReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat Loss	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat MaxJitter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] NetStat Packets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Netstat RoundTripTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] ParticipantId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video ChannelRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video ConcealmentType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video FrameRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video intraFrames	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video ResolutionX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Call [n] Channel [n] Video ResolutionY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Audio Channels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Audio Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Encryption	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat Bytes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
MediaChannels DirectShare [n] Channel [n] Netstat ChannelRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat Jitter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalLost	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat LastIntervalReceived	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat Loss	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat MaxJitter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Netstat Packets	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Video FrameRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Video Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Video ResolutionX	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] Video ResolutionY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MicrosoftTeams Calling InCall	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] CroppedHeight	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] CroppedWidth	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] Fps	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] FrameCount	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
MicrosoftTeams HardwareAccelerator Decoder [n] Height	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] OutputMode	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] SamplePeriodUs	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Decoder [n] Width	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] Fps	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] FrameCount	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] Height	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] InputMode	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] SamplePeriodUs	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams HardwareAccelerator Encoder [n] Width	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Pairing Active	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version Android	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version Authenticator	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version CompanyPortalApp	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version MicrosoftIntune	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version OEMAgent	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version TeamsAdminAgent	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software Version TeamsApp	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software VersionCode Authenticator	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U
MicrosoftTeams Software VersionCode CompanyPortalApp	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U

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MicrosoftTeams Software VersionCode MicrosoftIntune	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
MicrosoftTeams Software VersionCode OEMAgent	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
MicrosoftTeams Software VersionCode TeamsAdminAgent	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
MicrosoftTeams Software VersionCode TeamsApp	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
MicrosoftTeams User SignedIn	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
Network [n] ActiveInterface	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP Capabilities	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP DeviceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP Duplex	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP Platform	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP PortID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP PrimaryMgmtAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP SysName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP SysObjectID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP Version	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP VoIPApplianceVlanID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] CDP VTPMgmtDomain	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] DNS Domain Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] DNS Server [n] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Ethernet MacAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Ethernet Speed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IEEE8021X Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IEEE8021X Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IPv4 Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Network [n] IPv4 Gateway	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Network [n] IPv4 SubnetMask	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IPv6 Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IPv6 Gateway	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] IPv6 LinkLocalAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] VLAN Voice VlanId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi BSSID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Channel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi CLMVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Connectivity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Frequency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi FWVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi InterfaceEnabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi InterfaceReason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi KeyMgmt	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi MacAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Phase2Method	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi RawSSID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Region	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi RSSI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi ScanResult [n] AuthType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi ScanResult [n] RawSSID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi ScanResult [n] SignalLevel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi ScanResult [n] SSID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Network [n] Wifi SNR	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Network [n] Wifi Speed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi SSID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi SWVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi ToolsVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Network [n] Wifi Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
NetworkServices NTP CurrentAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
NetworkServices NTP Server [n] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
NetworkServices NTP Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
NetworkServices UPnP Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Peripherals ConnectedDevice [n] DRAM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Peripherals ConnectedDevice [n] HardwareInfo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] ID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] Location	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] Model	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] NetworkAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] Role	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
Peripherals ConnectedDevice [n] RoomAnalytics AirQuality Index	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Peripherals ConnectedDevice [n] RoomAnalytics AmbientTemperature	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] RoomAnalytics RelativeHumidity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] Security Certificates LastSynced	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] SoftwareInfo	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] UpgradeFailureReason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] UpgradeStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals ConnectedDevice [n] UpgradeURL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals PinPairing PinVisibleOnScreen	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals PinPairing RetriesRemaining	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals PinPairing TimeRemaining	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AIRU
Peripherals Stylus [n] Presence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	AIRU
Provisioning CUCM Customization Checksum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	AU
Provisioning CUCM ExtensionMobility Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	AU

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Provisioning CUCM ExtensionMobility LastLoggedInUserId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Provisioning CUCM ExtensionMobility LoggedIn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Provisioning Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning RoomType	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	-	-	-	-	Web, API	A U
Provisioning Server	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software Current CompletedAt	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software Current URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software Current VersionId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus LastChange	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus Message	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus Phase	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus SessionId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus Urgency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Software UpgradeStatus VersionId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning WebexCalling Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Proximity Services Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
RoomAnalytics AmbientNoise Level A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics AmbientTemperature	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U	
RoomAnalytics Engagement CloseProximity	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	X	X	X	-	Web, API	A I U	
RoomAnalytics PeopleCount Capacity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics PeopleCount Current	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics PeoplePresence	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics RelativeHumidity	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U	

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
RoomAnalytics ReverberationTime LastRun	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
RoomAnalytics ReverberationTime Middle RT60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics ReverberationTime Octaves [n] CenterFrequency	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics ReverberationTime Octaves [n] RT60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics RoomInUse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics Sound Level A	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics T3Alarm Detected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomAnalytics UltrasoundPresence	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
RoomPreset [n] Defined	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
RoomPreset [n] Description	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
RoomPreset [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Security Persistency CallHistory	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Security Persistency Configurations	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Security Persistency DHCP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Security Persistency InternalLogging	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Security Persistency LocalPhonebook	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Web, API	A U
Sensors Radar Mode	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	Web, API	A U
SIP AlternateURI Alias [n] URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP AlternateURI Primary URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Authentication	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP CallForward DisplayName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP CallForward Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP CallForward URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Mailbox MessagesWaiting	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Mailbox URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Proxy [n] Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
SIP Proxy [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
SIP Registration [n] Authentication	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Registration [n] Reason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Registration [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Registration [n] URI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Secure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SIP Verified	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Standby Level	-	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I R U	
Standby State	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
SystemUnit BroadcastName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Extensions Microsoft Supported	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A U	
SystemUnit DeveloperPreview Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware DRAM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware HasWifi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware MainBoard Revision	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware Module CompatibilityLevel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware Module DeviceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware Module SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware Monitoring Fan [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware Monitoring Temperature Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
SystemUnit Hardware UDI	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Hardware USBC [n] Connected	X	X	X	X	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A U	
SystemUnit LastShutdownReason	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit LastShutdownTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Notifications Notification [n] Text	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
SystemUnit Notifications Notification [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
SystemUnit ProductId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit ProductPlatform	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit ProductType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Software DisplayName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Software Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Software OptionKeys AVIntegrator	-	-	-	-	X	-	-	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I U	
SystemUnit Software OptionKeys DeveloperPreview	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
SystemUnit Software OptionKeys Encryption	-	-	-	X	X	X	X	X	X	X	X	X	X	-	X	X	-	-	-	Web, API	A U	
SystemUnit Software OptionKeys MultiSite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
SystemUnit Software OptionKeys RemoteMonitoring	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Software ReleaseDate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Software Version	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit State CameraLid	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U
SystemUnit State NumberOfActiveCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
SystemUnit State NumberOfInProgressCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
SystemUnit State NumberOfSuspendedCalls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit State Subsystem Application	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit State System	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
SystemUnit Uptime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ThousandEyes Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
ThousandEyes Version	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Time SystemTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Branding CustomId Background	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	X	X	-	Web, API	A I U	
UserInterface Branding CustomId Branding	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER



Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
UserInterface Branding CustomId HalfwakeBackground	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Branding CustomId HalfwakeBranding	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface ContactInfo ContactMethod [n] Number	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface ContactInfo Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Extensions Widget [n] Value	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
UserInterface Extensions Widget [n] WidgetId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I R U
UserInterface Features Calendar Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Features Call AudioMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Breakouts	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Features Call CameraControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Features Call End	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call HdmiPassthrough	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I
UserInterface Features Call JoinGoogleMeet	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call JoinWebex	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call JoinZoom	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Keypad	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call LayoutControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Features Call MidCallControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call MusicMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call ParticipantList	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Features Call SelfviewControls	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
UserInterface Features Call Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call VideoMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Call Webcam	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
UserInterface Features Files Start	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface Features Share Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Features Whiteboard Start	X	X	X	X	X	-	X	-	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I	
UserInterface LedControl Color	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface OSD Output	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface ScreenLock Status	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A U	
UserInterface SettingsMenu Visibility	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface Translation Override Checksum	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] ErrorDescription	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] ErrorType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] HttpStatusCode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WebView [n] URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Webex Services UserPresence CustomStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Services UserPresence Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video ActiveSpeaker PIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input AirPlay Activity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input AirPlay Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input Connector [n] Connected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] ConnectedDevice CEC [n] DeviceType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] ConnectedDevice CEC [n] LogicalAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] ConnectedDevice CEC [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] ConnectedDevice CEC [n] PowerStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U

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Video Input Connector [n] ConnectedDevice CEC [n] VendorId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] SignalState	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] SourceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Connector [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input DirectShare [n] Peer Address	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input DirectShare [n] Peer PeripheralID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input DirectShare [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input MainVideoMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input MainVideoSource	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input Miracast Channel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Miracast PinAttemptsLeft	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input Miracast Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Miracast Transport	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Source [n] ConnectorId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Source [n] FormatStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Source [n] MediaChannelId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Input Source [n] Resolution Height	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Source [n] Resolution RefreshRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Input Source [n] Resolution Width	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Layout CurrentLayouts ActiveLayout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout CurrentLayouts AvailableLayouts [n] LayoutName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout CurrentLayouts DefaultLayout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout LayoutFamily Local	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout LayoutFamily Remote	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Monitors	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Video Output Connector [n] Connected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U	
Video Output Connector [n] ConnectedDevice CEC [n] DeviceType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice CEC [n] LogicalAddress	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice CEC [n] Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice CEC [n] PowerStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice CEC [n] VendorId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice Name	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice PreferredFormat	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice ScreenSize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1080_50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1080_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1200_50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_1920_1200_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_2560_1080_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_2560_1440_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_2880_1200_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U

X: Supported - : Not supported

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Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role
Video Output Connector [n] ConnectedDevice SupportedFormat Res_3440_1440_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_1600_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_1620_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_2160_30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] ConnectedDevice SupportedFormat Res_3840_2160_60	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] Connected	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Output Connector [n] HDCP State	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] MonitorRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] Resolution Height	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] Resolution RefreshRate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] Resolution Width	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Connector [n] Type	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output HDMI Passthrough Status	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A U
Video Output Monitor [n] Backlight	X	-	-	-	-	-	-	-	-	-	-	X	X	X	-	X	-	-	-	Web, API	A U
Video Output Monitor [n] Calibrated	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] ColorTemperature Selected	-	-	-	-	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] Configured	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] FirmwareVersion	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Monitor [n] IpAddress	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] Manufacturer	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] ManufacturerId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Monitor [n] MDC Id	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U
Video Output Monitor [n] MDC Port	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	A U

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

Status	Desk Pro	Desk Mini	Desk	Room Bar	Room Bar Pro	Room Kit	Room Kit Mini	Room Kit EQX	Codec EQ	Codec Plus	Codec Pro	Room 55 Dual / Room 70	Room 70 G2	Room Panorama / Room 70 Panorama	Room 55	Board	Board Pro	Board Pro G2	On-prem only	Web interface or API	User role	
Video Output Monitor [n] ModelName	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U	
Video Output Monitor [n] Position	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Monitor [n] SerialNumber	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Monitor [n] Temperature	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Output Webcam Mode	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A U	
Video Output Webcam Status	X	X	X	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A U	
Video Presentation PIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Selfview FullscreenMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Selfview Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Selfview OnMonitorRole	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
Video Selfview PIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
WebEngine Features Signage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Features WebEngine	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Features WebRTC	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine LogLevel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine LogLevelVerbosity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Tracing CustomCategories	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Tracing Duration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Tracing Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebEngine Tracing Systrace	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex DeveloperId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex DevicePersonalization Hotdesking SessionStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Meetings InstantMeeting Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Meetings JoinProtocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Services Proximity GuestToken	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

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WebRTC Provider GoogleMeet Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
WebRTC Provider MicrosoftTeams Availability	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U

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## Chapter 7

# Appendices



## Disconnect cause types

The following parameters are logged when a call is disconnected. The disconnect cause types are used in disconnect events (xEvent).

CauseType	A string value used to describe why the call was disconnected. There are many possible values, and these can be changed downstream. Some examples include: OtherLocal, LocalDisconnect, UnknownRemoteSite, LocalBusy, LocalReject, InsufficientSecurity, OtherRemote, RemoteDisconnect, RemoteBusy, RemoteRejected, RemoteNoAnswer, CallForwarded, NetworkRejected.
CauseString	A string that can be used to provide additional information about the cause for the disconnect. This may be empty.
OrigCallDirection	The direction of the original call (i.e., outgoing or incoming).
RemoteURI	The remote address for the call.
CallId	A unique identifier for the call.
CauseCode	Provides the disconnect cause codes as defined by SIP and Q.850.
CauseOrigin	SIP, Q.850, internal.
CauseValue	Proprietary. Use <i>CauseType</i> and <i>CauseCode</i> instead.

### Example:

```
xEvent DisconnectEvent

*e CallDisconnect CauseValue: 1
  CauseType: "LocalDisconnect"
  CauseString: ""
  OrigCallDirection: "outgoing"
  RemoteURI: "firstname.lastname@company.com"
  CallId: 89
  CauseCode: 0
  CauseOrigin: SIP
** end
```

## User documentation on the Cisco web site

In general, you can find user documentation for all Cisco collaboration devices at ► <https://www.cisco.com/c/en/us/support/collaboration-endpoints>

We recommend you use the following short-links to find documentation for devices running RoomOS software.

Room series:

► <https://www.cisco.com/go/room-docs>

Desk series:

► <https://www.cisco.com/go/desk-docs>

Board series:

► <https://www.cisco.com/go/board-docs>

To find a specific document, click [Documentation](#) and look for the category that the document belongs to.

For example, to find an API guide click [Documentation](#) and look for [Reference > Command References](#).

### Categories and document types

These lists show which category a document type belongs to. All types of documents are not available for all types of devices.

#### Install and Upgrade > Install and Upgrade Guides

- *Installation guides:*  
How to assemble and install the device
- *Getting started guide:*  
Initial configurations required to get the device up and running for the first time
- *RCSI guide:* Regulatory compliance and safety information

#### Maintain and Operate > Maintain and Operate Guides

- *Getting started guide:*  
Initial configurations required to get the device up and running for the first time
- *Administration guide:*  
Information required to configure and administer the device
- *Spare parts overview, Spare parts replacement guides, Cable schemas:* Useful information when connecting cables and replacing spare parts

#### Maintain and Operate > End-User Guides

- *User guides:*  
How to use the device
- *Quick reference guides:*  
How to use the device's main features

#### Reference > Command references

- *API reference guide:*  
Reference guide for the device's public API

#### Reference > Technical References

- *CAD drawings:*  
2D CAD drawings of the device, with dimensions

#### Configuration > Configuration Guides

- *Customization guide:*  
How to customize the user interface, how to use the device's API to program in-room controls, making macros, configure advanced audio set-ups using the Audio Console, and other customizations.

#### Release and Compatibility > Release Notes

- *Software release notes*

### Cisco contacts

On our web site you will find an overview of the worldwide Cisco contacts.

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