

Application Programming Interface (API) Reference Guide

for Cisco collaboration devices running RoomOS 11.32

D15502.13
RoomOS 11.32
10-2025

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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

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Chapter 1

Introduction

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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 654.

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*.

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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 11.32

Support for Cisco Room Vision PTZ camera

(Room Kit EQ, Room Kit EQX, Room Bar Pro, Board Pro G2, Board Pro, Codec Pro)

Cisco Room Vision PTZ is a video-over-IP tracking camera designed to dynamically track and frame presenters and speakers by combining motorized pan-tilt-zoom with embedded AI.

The camera features video over IP connectivity to make it easy to set up and manage over Ethernet. Room Vision PTZ works with Cisco video devices and can be managed in the cloud while providing scalability to power multi-camera scenarios and advanced deployments.

Support for LLDP network discovery

RoomOS has had support for network discovery using CDP (Cisco Discovery Protocol) for a long time. Now we're adding support for LLDP (Link Layer Discovery Protocol), a vendor-neutral, IEEE 802.1AB standard network discovery protocol. LLDP works across different network vendors, increasing interoperability. CDP continues to be the default discovery protocol, but administrators can change this to LLDP if desired.

Macros and UI extension support on Room Navigator

We've added support for macros, UI extensions, and web views on Room Navigator panels outside the room. This gives you the same programmability and extensibility that was previously only available inside the room. UI extensions are supported in scheduler mode, and Macros are supported in both scheduler and persistent web app mode.

Supported on standalone Room Navigators.

Anonymous logs and diagnostics

Customers can now opt in to send anonymous logs and diagnostics to Cisco to help us get better and discover issues to proactively resolve them. Available for Cisco Unified CM managed and customer managed devices.

Users can change the sending of diagnostics data after they have done the initial wizard, with the following configuration:

xConfiguration Webex Privacy AllowUsageDataLogging: True/False

BeamAndExtMic by default for Cisco Table Microphone Pro *(Bar Pro, Board Pro, Board Pro G2)*

This enables the audio mixer to pick up voice from both the internal microphones and the Table Microphone Pro microphones.

Supported when Table Microphone Pro and/or Ceiling Microphone Pro are connected as the only external microphones and the setup calibration wizard has been performed on the device. Otherwise, the default Auto settings will be used, in which case only the external microphones are used.

Frames across two rows *(Room Kit Pro, Room Kit EQ, Room Kit EQX, Room Bar Pro, Board Pro G2)*

With frames camera mode showing participants in two rows instead of the previous one, up to eight participants are shown in their individual frames.

The original frames experience will still be available to configure through the xAPI.

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xConfiguration changes in RoomOS 11.32

New Configurations

Audio SoundsAndAlerts DTMFFeedback *(All products)*

Cameras SpeakerTrack Frames RowConfiguration *(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)*

Cameras Stereoscopic Mode *(Board Pro G2 55, Board Pro G2 75)*

Network [n] Firewall Incoming H323 *(All products)*

Network [n] Firewall Incoming Pairing *(All products)*

Network [n] Firewall Incoming SIP *(All products)*

Network [n] FQDN *(All products)*

NetworkServices DiscoveryProtocol SystemName *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

NetworkServices LLDP Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

NetworkServices SNMP SysNameSource *(All products)*

Provisioning RoomType CameraLayout *(All products)*

Security CSR KeySize *(All products)*

SystemUnit SoftwareUpgrade TruncateCop *(All products)*

UserInterface Accessibility ScreenReader Speed *(All products)*

UserInterface HomeScreen Peripherals WebApp AllowInsecureHttps *(All products)*

Video Input Connector [n] AssignedSerialNumber *(Desk Mini, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro, Cisco Desk, Codec EQ, Room Kit EQX, Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [n] Transform *(Desk Mini, Cisco Desk)*

Webex DevicePersonalization TaskBasedSignIn *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Desk Pro, Cisco Desk)*

Webex Proximity Mode *(All products)*

Configurations that are modified

Audio Input Ethernet [1..6] Equalizer ID *(Room 70 Panorama, Room Panorama)*

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

Audio Input Ethernet [1..8] Equalizer ID *(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)*

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

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

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

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

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

Audio Input Microphone [1] Mode *(Cisco Desk, Desk Mini, Desk Pro)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

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

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

Audio Output Line [1..6] Equalizer ID *(Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama)*

OLD: Integer (1..8)

NEW: 1/2/3/4/5/6/7/8

Cameras PresenterTrack Connector *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX)*

OLD: Integer (1..6)

NEW: Integer (1..10)

Conference DefaultCall Webex Rate *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Cisco Desk, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room 70 Panorama, Room Panorama)*

OLD: Default: 0

NEW: Default: 20000

Conference MaxReceiveCallRate *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Cisco Desk, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar)*

OLD: Default: 6000

NEW: Default: 20000

Conference MaxTransmitCallRate *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Cisco Desk, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar)*

OLD: Default: 6000

NEW: Default: 20000

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Files EndSessionAction *(All products)*

OLD: None/SendEmailToCreator

NEW: None/SendEmailToCreator/SendEmailToCurrentUser

Macros EvaluateTranspiled *(All products)*

OLD: Default: True

NEW: Default: False

Proximity Services ContentShare FromClients *(All products)*

OLD: Include_For_Extension: mtr

Time Zone (All products)

Added to valuespace: America/Coyhaique

UserInterface Accessibility ScreenReader Gesture *(All products)*

OLD: Default: Off

NEW: Default: On

OLD: Off/On

NEW: Off/On

UserInterface LiveAnnotation Enabled *(Codec EQ, Codec Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room 70 Panorama, Room Panorama)*

OLD: Default: False

NEW: Default: True

Video DefaultMainSource (Desk Mini)

OLD: 1/2

NEW: 1/2/3

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

OLD: 1/2/3/4/5/6/7/8

NEW: 1/2/3/4/5/6

Video DefaultMainSource *(Cisco Desk)*

OLD: 1/2/3

NEW: 1/2/3/4

Video Input Connector [1] CameraControl CameraId *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Desk Mini, Room 55 Dual, Room 70, Room 70 G2, Room Bar Pro, Room Kit EQX, Room 70 Panorama, Room Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

Video Input Connector [2] CameraControl CameraId *(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 70 Panorama, Room Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

Video Input Connector [3] CameraControl CameraId *(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 70 Panorama, Room Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

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

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

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

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

Video Input Connector [6] CameraControl CameraId *(Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

Video Presentation DefaultSource *(Desk Mini)*

OLD: 1/2

NEW: 1/2/3

Video Presentation DefaultSource *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: 1/2/3/4/5/6/7/8

NEW: 1/2/3/4/5/6

Video Presentation DefaultSource *(Cisco Desk)*

OLD: 1/2/3

NEW: 1/2/3/4

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xCommand changes in RoomOS 11.32

New Commands

Audio LocalInput Ethernet Deregister *(Room Bar)*

Audio LocalInput Ethernet Register *(Room Bar)*

Bookings CheckIn *(All products)*

Camera Boot *(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)*

Camera FactoryReset *(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)*

Cameras SpeakerTrack Set *(Desk Mini, Desk Pro, Cisco Desk)*

Cameras SpeakerTrack Set *(Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Room 70 G2, Room Bar Pro, Room Kit EQX)*

Cameras SpeakerTrack Set *(Board, Board Pro 55, Board Pro 75, Codec Plus, Room 55, Room 55 Dual, Room 70, Room Bar, Room Kit, Room Panorama, Room 70 Panorama)*

Cameras SpeakerTrack Set *(Room Kit Mini)*

Network SMTP VerifyConfig *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro, Room Kit EQX)*

Peripherals Security Certificates Services Delete *(All products)*

Peripherals Security Certificates Services Enrollment SCEP Renewal Request *(All products)*

Security Certificates Services Enrollment SCEP Renewal Request *(All products)*

Webex Registration Airgap Prepare *(All products)*

Commands that are modified

Camera PositionReset *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera PositionSet *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera PositionSet *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera PositionSet *(Board Pro 55, Board Pro 75)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera PositionSet *(Codec EQ, Codec Plus, Room 55 Dual, Room 70, Room Kit EQX)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera Preset ActivateDefaultPosition *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera Preset List *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera Preset Store *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera Ramp *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera TriggerAutofocus *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

Camera TriggerWhitebalance *(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)*

OLD: CameraId: Integer (1..7)
NEW: CameraId: Integer (1..10)

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Cameras AutoFocus Diagnostics Start *(Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: CameraId: Integer (1..7)

NEW: CameraId: Integer (1..10)

Cameras AutoFocus Diagnostics Stop *(Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: CameraId: Integer (1..7)

NEW: CameraId: Integer (1..10)

Cameras SpeakerTrack BackgroundMode Activate *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Codec Pro, Desk Mini, Desk 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, Cisco Desk)*

NEW: Framing: Off/On, Default: On

Cameras SpeakerTrack BackgroundMode Activate *(Board)*

NEW: Framing: Off, Default: On

Cameras SpeakerTrack Whiteboard ActivatePosition *(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)*

OLD: CameraId: Integer (1..7)

NEW: CameraId: Integer (1..10)

Cameras SpeakerTrack Whiteboard AlignPosition *(Codec Plus, Codec Pro)*

OLD: CameraId: Integer (1..7)

NEW: CameraId: Integer (1..10)

Cameras SpeakerTrack Whiteboard StorePosition *(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)*

OLD: CameraId: Integer (1..7)

NEW: CameraId: Integer (1..10)

Conference SimultaneousInterpretation SelectLanguage *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Desk Mini, Desk Pro, Room 55, Room 55 Dual, Room 70, Room Bar, Room Bar Pro, Room Kit, Room Kit EQX, Room Kit Mini, Cisco Desk)*

NEW: StreamId: Integer (1..1)

Conference SimultaneousInterpretation SelectLanguage *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

NEW: StreamId: Integer (1..4)

Network Wifi Configure *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

NEW: Connect: Auto/Later, Default: Auto

Network Wifi Configure *(Board, Codec Plus, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini)*

NEW: Connect: Auto, Default: Auto

Network Wifi Delete *(All products)*

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

OLD: SSID: Required: Required parameter

NEW: SSID: Required: Optional parameter

Peripherals Connect *(All products)*

OLD: Type: AudioAmplifier/AudioMicrophone/Byod/Camera/ControlSystem/Other/PersistentWebApp/RoomScheduler/TouchPanel

NEW: Type: AudioAmplifier/AudioMicrophone/Byod/Camera/ControlSystem/Other/PersistentWebApp/RoomScheduler/TableExtender/TouchPanel/VideoSwitcher

Presentation Start *(Desk Mini)*

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

NEW: ConnectorId: IntegerArray (1..3) [multiple 4]

OLD: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: PresentationSource: 1/10/2/3/4/5/6/7/8/9/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/10/2/3/4/5/6/7/8/9/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: PresentationSource: 1/2/3/4/5/6/7/8/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/5/6/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Board, Room Kit, Room Kit Mini)*

OLD: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Board Pro 55, Board Pro 75, Desk Pro, Room Bar)*

OLD: PresentationSource: 1/2/3/4/5/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/5/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Codec EQ, Room Kit EQX)*

OLD: PresentationSource: 1/2/3/4/5/6/7/8/9/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/5/6/7/8/9/AirPlay/Miracast/None/Remote/WebView [multiple 4]

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Presentation Start *(Cisco Desk)*

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

NEW: ConnectorId: IntegerArray (1..4) [multiple 4]

OLD: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Start *(Codec Plus, Room 55, Room 55 Dual, Room 70)*

OLD: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView [multiple 4]

Presentation Stop *(Desk Mini)*

OLD: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView

Presentation Stop *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

PresentationSource: Removed from valuespace: DirectShare

Presentation Stop *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: PresentationSource: 1/2/3/4/5/6/7/8/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/4/5/6/AirPlay/Miracast/None/Remote/WebView

Presentation Stop *(Board, Room Kit, Room Kit Mini)*

OLD: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/AirPlay/Miracast/None/Remote/WebView

Presentation Stop *(Board Pro 55, Board Pro 75, Desk Pro, Room Bar)*

OLD: PresentationSource: 1/2/3/4/5/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/4/5/AirPlay/Miracast/None/Remote/WebView

Presentation Stop *(Codec EQ, Room Kit EQX)*

PresentationSource: Removed from valuespace: DirectShare

Presentation Stop *(Cisco Desk)*

OLD: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/4/AirPlay/Miracast/None/Remote/WebView

Presentation Stop *(Codec Plus, Room 55, Room 55 Dual, Room 70)*

OLD: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView

Security Certificates CSR Create *(All products)*

OLD: CommonName: String (0, 128)

NEW: CommonName: String (0, 64)

OLD: CountryName: String (0, 128)

NEW: CountryName: String (0, 2)

NEW: LocalityName: String (0, 64)

OLD: OrganizationName: String (0, 128)

NEW: OrganizationName: String (0, 64)

NEW: OrganizationalUnit: StringArray (0, 64) [multiple 5]

NEW: SanDns: StringArray (0, 64) [multiple 5]

NEW: SanEmail: StringArray (0, 64) [multiple 5]

NEW: SanIp: StringArray (0, 64) [multiple 5]

NEW: SanUri: StringArray (0, 64) [multiple 5]

NEW: StateOrProvinceName: String (0, 64)

UserInterface Extensions Panel Clicked *(All products)*

NEW: Origin: Controller/OSD/RoomScheduler

NEW: PeripheralId: String (0, 128)

UserInterface Extensions Panel Close *(All products)*

NEW: PeripheralId: String (0, 128)

NEW: Target: Controller/OSD/RoomScheduler

UserInterface Extensions Panel Open *(All products)*

NEW: PeripheralId: String (0, 128)

NEW: Target: Controller/OSD/RoomScheduler

UserInterface Extensions Panel Update *(All products)*

OLD: Location: CallControls/ControlPanel/Hidden/HomeScreen/HomeScreenAndCallControls

NEW: Location: CallControls/ControlPanel/Hidden/HomeScreen/HomeScreenAndCallControls/RoomScheduler

NEW: Mode: Fullscreen/Modal

UserInterface Extensions WebApp Save *(All products)*

OLD: Location: CallControls/ControlPanel/Hidden/HomeScreen/HomeScreenAndCallControls

NEW: Location: CallControls/ControlPanel/Hidden/HomeScreen/HomeScreenAndCallControls/RoomScheduler

NEW: Mode: Fullscreen/Modal

UserInterface Extensions Widget Action *(All products)*

NEW: Origin: Controller/OSD/RoomScheduler

NEW: PeripheralId: String (0, 128)

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UserInterface Message Alert Clear *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Alert Display *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Prompt Clear *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Prompt Display *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Prompt Response *(All products)*
- NEW: Origin: Controller/OSD/RoomScheduler
- NEW: PeripheralId: String (0, 128)

UserInterface Message Rating Clear *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Rating Display *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message Rating Response *(All products)*
- NEW: Origin: Controller/OSD/RoomScheduler
- NEW: PeripheralId: String (0, 128)

UserInterface Message TextInput Clear *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message TextInput Display *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message TextInput Response *(All products)*
- NEW: Origin: Controller/OSD/RoomScheduler
- NEW: PeripheralId: String (0, 128)

UserInterface Message TextLine Clear *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Message TextLine Display *(All products)*
- NEW: PeripheralId: String (0, 128)
- NEW: Target: Controller/OSD/RoomScheduler

UserInterface Presentation ExternalSource Add *(Desk Mini)*
- OLD: ConnectorId: Integer (1..2)
- NEW: ConnectorId: Integer (1..3)

UserInterface Presentation ExternalSource Add *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*
- OLD: ConnectorId: Integer (1..5)
- NEW: ConnectorId: Integer (1..6)

UserInterface Presentation ExternalSource Add *(Codec EQ, Room Kit EQX)*
- OLD: ConnectorId: Integer (1..6)
- NEW: ConnectorId: Integer (1..9)

UserInterface Presentation ExternalSource Add *(Cisco Desk)*
- OLD: ConnectorId: Integer (1..3)
- NEW: ConnectorId: Integer (1..4)

UserInterface WebView Clear *(All products)*
- OLD: Target: Controller/OSD/PersistentWebApp
- NEW: Target: Controller/OSD/PersistentWebApp/RoomScheduler

UserInterface WebView Display *(All products)*
- OLD: Target: Controller/OSD/PersistentWebApp
- NEW: Target: Controller/OSD/PersistentWebApp/RoomScheduler

Video Input SetMainVideoSource *(Desk Mini)*
- OLD: ConnectorId: IntegerArray (1..2) [multiple 4]
- NEW: ConnectorId: IntegerArray (1..3) [multiple 4]
- OLD: SourceId: 1/2/AirPlay/Miracast [multiple 4]
- NEW: SourceId: 1/2/3/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*
- OLD: ConnectorId: IntegerArray (1..8) [multiple 4]
- NEW: ConnectorId: IntegerArray (1..6) [multiple 4]

Video Input SetMainVideoSource *(Cisco Desk)*
- OLD: ConnectorId: IntegerArray (1..3) [multiple 4]
- NEW: ConnectorId: IntegerArray (1..4) [multiple 4]
- OLD: SourceId: 1/2/3/AirPlay/Miracast [multiple 4]
- NEW: SourceId: 1/2/3/4/AirPlay/Miracast [multiple 4]

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Video Matrix Assign *(Room Bar Pro)*
- OLD: Output: Integer (1..2)
- NEW: Output: Integer (1..3)
- OLD: SourceId: IntegerArray (1..5) [multiple 4]
- NEW: SourceId: IntegerArray (1..6) [multiple 4]

Video Matrix Assign *(Codec EQ)*
- OLD: SourceId: IntegerArray (1..6) [multiple 4]

NEW: SourceId: IntegerArray *(1..9)* [multiple 4]
- OLD: Output: Integer (1..2)
- NEW: Output: Integer (1..3)
- OLD: SourceId: IntegerArray (1..6) [multiple 4]
- NEW: SourceId: IntegerArray (1..9) [multiple 4]

Video Matrix Reset *(Room Bar Pro, Room Kit EQX)*
- OLD: Output: Integer (1..2)
- NEW: Output: Integer (1..3)

Video Matrix Swap *(Room Bar Pro, Room Kit EQX)*
- OLD: OutputA: Integer (1..2)
- NEW: OutputA: Integer (1..3)
- OLD: OutputB: Integer (1..2)
- NEW: OutputB: Integer (1..3)

Video Matrix Unassign *(Room Bar Pro)*
- OLD: Output: Integer (1..2)
- NEW: Output: Integer (1..3)
- OLD: SourceId: Integer (1..5)
- NEW: SourceId: Integer (1..6)

Video Matrix Unassign *(Codec EQ)*
- OLD: SourceId: Integer (1..6)
- NEW: SourceId: Integer (1..9)

Video Matrix Unassign *(Room Kit EQX)*
- OLD: Output: Integer (1..2)
- NEW: Output: Integer (1..3)
- OLD: SourceId: Integer (1..6)
- NEW: SourceId: Integer (1..9)

Webex Registration Start *(All products)*
- OLD: AccountLinkMode: Default: <Not specified>
- NEW: AccountLinkMode: Default: Synchronous
- OLD: AccountLinkMode: Asynchronous
- NEW: AccountLinkMode: Asynchronous/Synchronous

Commands that are removed

Webex Hotdesking SetSupport *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Desk Pro, Cisco Desk)*

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xStatus changes in RoomOS 11.32

New Statuses

Audio Input RemoteInput [n] Role *(All products)*

Audio Output RemoteOutput [n] Role *(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 Pro, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Cameras SpeakerTrack Behavior Active *(All products)*

Network [n] Wifi ProfileID *(All products)*

Webex Airgap Status *(All products)*

Webex Domain *(All products)*

Webex Services Provisional Status *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Statuses that are modified

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

Added to valuespace: AnalogMicrophonesProfileCheck/ CUCMRemoteExtensionMobility/CertificateRenewedRebootRequired/ CviCrossTenantStatus/DigitalMicrophonesAmountCheck/DuplicateAddressDetection/ EthernetMicrophonesProfileCheck/HotdeskCompanionModeExclusivity/ HotdeskNonJoinableMeetingConfiguration/LockedDeviceHotdeskWorkspaceMode/ MacrosDuktapeIsDeprecated/MacrosTranspilationIsDeprecated/ MicrosoftTeamsRunningLocal/MicrosoftTeamsRunningRemote/ PeripheralTypeNoLongerSupported/USBCameraConnection/ UsbMicrophonesProfileCheck

Removed from valuespace: AnalogMicrophonesCountCheck/ EthernetMicrophonesCountCheck/UsbMicrophonesCountCheck

MediaChannels Call [n] Channel [n] Audio ChannelRole *(All products)*

OLD: Main/Presentation

NEW: Main/Presentation/SimultaneousInterpreter

MediaChannels Call [n] Channel [n] Video ChannelRole *(All products)*

OLD: Main/Presentation

NEW: Main/Presentation/SimultaneousInterpreter

MediaChannels RemoteAccess [n] Channel [n] Audio ChannelRole *(All products)*

OLD: Main/Presentation

NEW: Main/Presentation/SimultaneousInterpreter

MediaChannels RemoteAccess [n] Channel [n] Video ChannelRole *(All products)*

OLD: Main/Presentation

NEW: Main/Presentation/SimultaneousInterpreter

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

Added to valuespace: TableExtender/VideoSwitcher

Statuses that are removed

MicrosoftTeams Software Version CompanyPortalApp *(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 CompanyPortalApp *(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)*

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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 11.27

Required passphrase change on first login

To comply with EU regulations and to enhance device security, a passphrase is now required for the device admin account.

During the setup process, you'll be prompted to set a passphrase in the setup wizard. If you access a device through the web interface or other methods (such as SSH), you are required to set a passphrase before access is granted. Once set, you can use it to log in.

This change affects video devices that are in a factory reset state, either new devices or devices that have been manually reset.

NOTE: If you use automation or scripted routines to configure devices, SSH access now requires a passphrase update. These scripts must be adapted to handle this new requirement during setup.

Director to use virtual lens

This feature automatically extends the camera's reach using an AI-powered virtual lens, ensuring that active speakers, such as those seated at the far end of a long table, are captured in higher quality. No configuration or user interaction is required.

AirPlay FairPlay support

Our AirPlay implementation now supports FairPlay and can now playback DRM protected content in out-of-call scenarios. Protected content cannot be played in in-call sharing scenarios.

Note that applications that do not support AirPlay, such as Netflix, will not work.

Screen reader support

Screen reader is an accessibility feature designed to improve usability for visually impaired users. Once enabled, the device's touch screen can be operated using specific gestures.

To enable the screen reader, tap the screen with three fingers and swipe down. The screen reader will begin reading aloud the currently selected item on the UI.

To disable the screen reader, repeat the same gesture: tap with three fingers and swipe down.

Web view in share tray

When a web view is launched, it now appears in the share tray, allowing users to easily select and share it during a call or meeting.

We've also added support in the APIs to allow integrators to share web views programmatically using the following command:

```
xCommand Presentation Start PresentationSource: WebView WebViewId: ID
```

The `WebViewId` is provided by:

```
xStatus UserInterface WebView
```

White balance calibration for multi camera setup *(Room Kit EQ, Room Kit EQX, Codec Pro)*

In multi camera setups you may see differences in the colors of the video between the different cameras. The new calibration lets you configure a suitable white-balance profile for your setup.

This is available for all multi camera rooms where cross-view or extended reach is configured.

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xConfiguration changes in RoomOS 11.27

New Configurations

Audio Output ARC [1] Delay Direct DelayMs *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

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

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

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

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

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

Audio Output Ethernet [1] Gain *(Codec EQ)*

Audio Output HDMI [1..3] Delay Direct DelayMs *(Codec Pro)*

Audio Output Line [1..6] Delay Direct DelayMs *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Audio Output USBInterface [1] Delay DelayMs *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Audio Output USBInterface [1] Delay Direct DelayMs *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Audio Output USBInterface [1] Delay Mode *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Cameras SpeakerTrack MultiCamera CalibrationMonitoring *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Cameras Stereoscopic Mode *(Room Bar Pro)*

MicrosoftTeams Logging Level *(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 Logging Mode *(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 Zoom CrossLaunch *(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)*

Peripherals Profile Microphones Analog *(Codec EQ, Codec Plus, Room Bar Pro, Room Kit EQX, Room Bar, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room Kit)*

Peripherals Profile Microphones Ethernet *(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, Room Bar)*

Peripherals Profile Microphones USBInterface *(Codec EQ, Codec Plus, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Peripherals Profile Microphones USBMicrophone *(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)*

Standby Level Networked Delay *(Room Bar)*

Standby Level Networked Mode *(Room Bar)*

UserInterface Accessibility ScreenReader Default Mode *(All products)*

UserInterface Accessibility ScreenReader Gesture *(All products)*

Video Input Connector [4] InputSourceType *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro)*

Video Input Connector [4] Name *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro)*

Video Input Connector [4] PresentationSelection *(Desk Pro, Room Bar, Room Bar Pro, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Video Input Connector [4] Quality *(Desk Pro, Room Bar, Room Bar Pro, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75)*

Video Input Connector [4] Transform *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro)*

Video Input Connector [4] Visibility *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro)*

Video Input Connector [5] InputSourceType *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro, Codec EQ, Room Kit EQX)*

Video Input Connector [5] Name *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro, Codec EQ, Room Kit EQX)*

Video Input Connector [5] PresentationSelection *(Desk Pro, Room Bar, Room Bar Pro, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Room Kit EQX)*

Video Input Connector [5] Quality *(Desk Pro, Room Bar, Room Bar Pro, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Room Kit EQX)*

Video Input Connector [5] Transform *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Desk Pro, Room Bar, Room Bar Pro, Room Kit EQX)*

Video Input Connector [5] Visibility *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro, Room Bar, Room Bar Pro, 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] PresentationSelection *(Codec EQ, Room Kit EQX)*

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Video Input Connector [6] Quality *(Codec EQ, Room Kit EQX)*

Video Input Connector [6] Transform *(Codec EQ, Room Kit EQX)*

Video Input Connector [6] Visibility *(Codec EQ, Room Kit EQX)*

Video Input Connector [7] InputSourceType *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [7] Name *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [7] PresentationSelection *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [7] Quality *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [7] Transform *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Input Connector [7] Visibility *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Output Connector [1..2] HDCPForce1_4 *(Room Bar, Room Kit)*

Video Output Connector [1..3] HDCPForce1_4 *(Codec EQ, Room Bar Pro, Room Kit EQX)*

Video Output Connector [1] HDCPForce1_4 *(Board, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Desk Pro, Room 55, Room Kit Mini, Cisco Desk, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Output Connector [2] HDCPForce1_4 *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec Plus, Desk Pro, Room 55, Room 55 Dual, Room 70)*

Video Output Connector [3] HDCPForce1_4 *(Board Pro G2 55, Board Pro G2 75, Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

Video Output TouchInput Mode *(Codec EQ, Codec Pro, Room Bar, Room Bar Pro, Room Kit EQX, Room Kit Mini)*

Webex Meetings AIAssistantAutoSummarize Available *(All products)*

Webex Privacy AllowUsageDataLogging *(Board, Codec Plus, Desk Mini, Room 55, Room 55 Dual, Room 70, Room Kit, Room Kit Mini, Cisco Desk)*

Webex ProvisionalActivationService *(Desk Mini, Cisco Desk)*

Configurations that are modified

Audio Ethernet Encryption *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Ethernet SAPDiscovery Address *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Ethernet SAPDiscovery Mode *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Input USBC [1] VideoAssociation MuteOnInactiveVideo *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Desk Mini, Desk Pro, Room Bar, Room Bar Pro, Room Kit EQX, Cisco Desk)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Microphones PhantomPower *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Codec EQ, Codec Plus, Room 55, Room 55 Dual, Room 70, Room Bar Pro, Room Kit, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Panning Mode *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Mini, Cisco Desk, Room 55, Room 55 Dual, Room 70, Room 70 G2, Room Bar, Room Bar Pro, Room Panorama, Room 70 Panorama, Board 55S, Board 70S, Board 85S, Desk Pro)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio USB VolumeControl Capture Mode *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio USB VolumeControl Capture Value *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio USB VolumeControl Playback Mode *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio USB VolumeControl Playback Value *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Video DefaultMainSource *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

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

OLD: 1/2/3/4/5

NEW: 1/2/3/4/5/6/7/8

Video DefaultMainSource *(Codec EQ, Room Kit EQX)*

OLD: 1/2/3/4/5/6

NEW: 1/2/3/4/5/6/7/8/9

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Video Presentation DefaultSource *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*

OLD: 1/2/3/4/5/6/7

NEW: 1/10/2/3/4/5/6/7/8/9

Video Presentation DefaultSource *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

OLD: 1/2/3/4/5

NEW: 1/2/3/4/5/6/7/8

Video Presentation DefaultSource *(Codec EQ, Room Kit EQX)*

OLD: 1/2/3/4/5/6

NEW: 1/2/3/4/5/6/7/8/9

WebEngine Features GpuRasterization *(All products)*

OLD: Default: Off

NEW: Default: Auto

OLD: Off/On

NEW: Auto/Off/On

Configurations that are removed

Apps Whiteboard Url *(All products)*

Audio Input Ethernet [1] Equalizer ID *(Room Bar)*

Audio Input Ethernet [1] Equalizer Mode *(Room Bar)*

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xCommand changes in RoomOS 11.27

New Commands

Audio Equalizer List *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

Audio Equalizer Update *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

Bookings CheckOut *(All products)*

Cameras Stereoscopic Mute *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

Cameras Stereoscopic Unmute *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

UserInterface Accessibility ScreenReader Set *(All products)*

Webex Registration Airgap Prepare *(All products)*

Commands that are modified

Audio Diagnostics Advanced Run *(All products)*
- OLD: User role: Admin, User
- NEW: User role: Admin, Integrator, User

Audio Diagnostics AecReverb Reset *(All products)*
- OLD: User role: Admin, User
- NEW: User role: Admin, Integrator, User

Audio Diagnostics AecReverb Run *(All products)*
- OLD: User role: Admin, User
- NEW: User role: Admin, Integrator, User

Audio Diagnostics MeasureDelay *(All products)*
- OLD: User role: Admin, User
- NEW: User role: Admin, Integrator, User

Audio Equalizer List *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio Equalizer Update *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalInput Add *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalInput AddConnector *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalInput Remove *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalInput RemoveConnector *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalInput Update *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalOutput Add *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalOutput AddConnector *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalOutput ConnectInput *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalOutput DisconnectInput *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

Audio LocalOutput Remove *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*
- OLD: User role: Admin
- NEW: User role: Admin, Integrator

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Audio LocalOutput RemoveConnector *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio LocalOutput Update *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio LocalOutput UpdateInputGain *(Codec Pro, Desk Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio RemoteOutput ConnectInput *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio RemoteOutput DisconnectInput *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio RemoteOutput UpdateInputGain *(Codec Pro, Desk Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Setup Clear *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Setup Reset *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama, Codec EQ, Room Kit EQX)*

OLD: User role: Admin

NEW: User role: Admin, Integrator

Audio Volume Decrease *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume Increase *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume Mute *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume Set *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume SetToDefault *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume ToggleMute *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio Volume Unmute *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio VuMeter Start*(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio VuMeter Stop *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

Audio VuMeter StopAll *(All products)*

OLD: User role: Admin, User

NEW: User role: Admin, Integrator, User

MicrosoftTeams SoftwareUpgrade *(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)*

NEW: Force: False/True, Default: False

Network Wifi Configure *(All products)*

OLD: Type: Open/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls/Wpa2-psk

NEW: Type: Enterprise-Fast/Enterprise-Peap/Enterprise-Tls/Enterprise-Ttls/None/Open/Personal/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls/Wpa2-psk

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Peripherals Security Certificates Services Enrollment SCEP Request *(All products)*
- OLD: ChallengePassword: String (0, 128)
- NEW: ChallengePassword: String (0, 256)
- OLD: CommonName: String (0, 128)
- NEW: CommonName: String (0, 64)
- OLD: CountryName: String (0, 128)
- NEW: CountryName: String (0, 2)
- OLD: ID: String (1, 100)
- NEW: ID: String (12, 17)
- NEW: LocalityName: String (0, 64)
- OLD: OrganizationName: String (0, 128)
- NEW: OrganizationName: String (0, 64)
- NEW: OrganizationalUnit: StringArray (0, 64) [multiple 5]
- OLD: SanDns: StringArray (0, 128) [multiple 5]
- NEW: SanDns: StringArray (0, 64) [multiple 5]
- OLD: SanEmail: StringArray (0, 128) [multiple 5]
- NEW: SanEmail: StringArray (0, 64) [multiple 5]
- OLD: SanIp: StringArray (0, 128) [multiple 5]
- NEW: SanIp: StringArray (0, 64) [multiple 5]
- OLD: SanUri: StringArray (0, 128) [multiple 5]
- NEW: SanUri: StringArray (0, 64) [multiple 5]
- NEW: StateOrProvinceName: String (0, 64)
- OLD: URL: String (0, 128)
- NEW: URL: String (0, 256)

Presentation Start *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*
- OLD: PresentationSource: 1/2/3/4/5/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]
- NEW: PresentationSource: 1/2/3/4/5/6/7/8/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

Presentation Stop *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*
- PresentationSource: Added to valuespace: 6/7/8

Security Certificates Services Enrollment SCEP Profiles Set *(All products)*
- OLD: URL: String (0, 128)
- NEW: URL: String (0, 256)

Security Certificates Services Enrollment SCEP Request *(All products)*
- OLD: ChallengePassword: String (0, 128)
- NEW: ChallengePassword: String (0, 256)
- OLD: CommonName: String (0, 128)
- NEW: CommonName: String (0, 64)
- OLD: CountryName: String (0, 128)
- NEW: CountryName: String (0, 2)
- OLD: LocalityName: String (0, 128)
- NEW: LocalityName: String (0, 64)
- OLD: OrganizationName: String (0, 128)
- NEW: OrganizationName: String (0, 64)
- OLD: OrganizationalUnit: StringArray (0, 128) [multiple 5]
- NEW: OrganizationalUnit: StringArray (0, 64) [multiple 5]
- OLD: SanDns: StringArray (0, 128) [multiple 5]
- NEW: SanDns: StringArray (0, 64) [multiple 5]
- OLD: SanEmail: StringArray (0, 128) [multiple 5]
- NEW: SanEmail: StringArray (0, 64) [multiple 5]
- OLD: SanIp: StringArray (0, 128) [multiple 5]
- NEW: SanIp: StringArray (0, 64) [multiple 5]
- OLD: SanUri: StringArray (0, 128) [multiple 5]
- NEW: SanUri: StringArray (0, 64) [multiple 5]
- OLD: StateOrProvinceName: String (0, 128)
- NEW: StateOrProvinceName: String (0, 64)
- OLD: URL: String (0, 128)
- NEW: URL: String (0, 256)

Security Certificates Webex Show *(All products)*
- OLD: Filter: Cisco/Non-Cisco/TLS-proxy
- NEW: Filter: AirGap/Cisco/Non-Cisco/TLS-proxy

Video CEC Input KeyClick *(Room Bar, Room Bar Pro)*
- OLD: ConnectorId: Integer (1..5)
- NEW: ConnectorId: Integer (2..3)

Video CEC Input KeyClick *(Board Pro 55, Board Pro 75, Board Pro G2 55, Board Pro G2 75, Desk Pro)*
- OLD: ConnectorId: Integer (2..5)
- NEW: ConnectorId: Integer (2..3)

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

OLD: ConnectorId: IntegerArray (1..5) [multiple 4]

NEW: ConnectorId: IntegerArray (1..8) [multiple 4]

OLD: SourceId: 1/2/3/4/5/AirPlay/Miracast [multiple 4]

NEW: SourceId: 1/2/3/4/5/6/7/8/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource *(Codec EQ, Room Kit EQX)*

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

NEW: ConnectorId: IntegerArray (1..9) [multiple 4]

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xStatus changes in RoomOS 11.27

New Statuses

Audio Output Connectors USBInterface [n] DelayMs *(All products)*

Cameras Stereoscopic Calibrated *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

Cameras Stereoscopic Status *(Board Pro G2 55, Board Pro G2 75, Room Bar Pro)*

MediaChannels DirectShare [n] Channel [n] Type *(All products)*

Network [n] FQDN *(All products)*

UserInterface Accessibility ScreenReader Mode *(All products)*

Video Layout LocalStageUpdatesDisallowed *(All products)*

Video Layout SelfOnStage *(All products)*

Video Layout StageControlledByHost *(All products)*

Statuses that are modified

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

Added to valuespace: AnalogMicrophonesCountCheck/CameraPlacementCalibration/DeepSleepSettingOverriddenByToggle/EthernetMicrophonesCountCheck/MicrosoftTeamsPairing/MicrosoftTeamsSignedInRemote/PeripheralSoftwareUnknownType/RoomSchedulerModeConfiguration/StereoscopicNotCalibrated/UsbMicrophonesCountCheck

Network [n] Wifi ScanResult [n] AuthType *(All products)*

OLD: String

NEW: Enterprise/Open/Personal/Unsupported

Network [n] Wifi Type *(All products)*

OLD: String

NEW: Open/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls/Wpa2-psk

RemoteAccess Session [n] State *(All products)*

OLD: AccessRequested/Active/PreAccessRequested

NEW: AccessRequested/Active/Ended/PreAccessRequested/Rejected

Video Input MainVideoSource *(All products)*

OLD: 1/2/3/4/5/6/7/Composed

NEW: 1/10/2/3/4/5/6/7/8/9/Composed

Statuses that are removed

MediaChannels VideoInputEthernet [n] Channel [n] Encryption *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] EncryptionType *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Bytes *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat ChannelRate *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Jitter *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat LastIntervalLost *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat LastIntervalReceived *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Loss *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat MaxJitter *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Packets *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video FrameRate *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video Protocol *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video ResolutionX *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video ResolutionY *(All products)*

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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 11.24

Support for Cisco Ceiling Microphone Pro

RoomOS 11.24.2 has full support for the Cisco Ceiling Microphone Pro together with:

- Cisco Room Bar
- Cisco Room Bar Pro
- Cisco Room Kit EQ
- Cisco Room Kit EQX
- Cisco Room Kit Pro
- Cisco Board Pro
- Cisco Board Pro G2

Support for Cisco Room Bar BYOD

With RoomOS 11.24.2 and later installed on a Cisco Room Bar without a Room Navigator connected, the device boots into Cisco Room Bar BYOD mode.

In BYOD mode, the Room Bar can be connected to a computer through USB-C or USB-A to USB-C, functioning as an advanced web camera that provides audio input and output, video with built-in intelligent framing, and local presentation capabilities when connected to a screen.

Read more about:

- Administration
- Use

Support for RFC5922 Domain Certificate in SIP

The setting xConfiguration SIP TransportSecurity CertificateVerificationMode can be configured to one of three modes: Auto, Legacy, or RFC5922. In Auto or Legacy mode, verification is disabled.

The mode RFC5922 specifies how to validate names in an X.509 certificate received from a SIP remote. To enforce certificate verification for SIP calls, the following xConfiguration parameters must also be set:

```
xConfiguration SIP DefaultTransport: Tls
```

```
xConfiguration SIP TlsVerify: On
```

```
xConfiguration SIP ListenPort: Off
```

Note that the SIP ListenPort mode Off will effectively block incoming SIP calls.

Even if RFC5922 is enabled, it will be automatically disabled under the following conditions:

```
xConfiguration Provisioning WebexCalling Mode: On
```

```
xConfiguration SIP Type: Cisco
```

```
xConfiguration SIP Proxy 1 Address: "non-empty"
```

Support for local ad-hoc bookings ahead of time

The local booking UI for ad-hoc bookings now allow you to book the room ahead of time.

Other updates:

- Microsoft Teams Join Button will now prompt for a Video ID by default instead of the Meeting ID. Meeting ID will still be available but it's promoted as an alternative.
- Share tray on the device's UI now shows a preview of the source that's connected with a cable. This helps you quickly identify the correct source. Note that this do not work for the Extended/Virtual sources feature.
- When AirPlay is connected during a call, an auto-share popup appears, notifying that sharing will begin in 5 seconds and providing a countdown until the content is shared in the call.

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xConfiguration changes in RoomOS 11.24

New Configurations

Apps Whiteboard Url *(All products)*

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

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

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

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

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

Audio Input Ethernet [1..8] EchoControl Mode *(Board Pro, Codec EQ, Room Kit EQX)*

Audio Input Ethernet [1..8] EchoControl NoiseReduction *(Board Pro G2, Room Bar Pro, Board Pro, Codec EQ, Room Kit EQX)*

Audio Input Ethernet [1..8] Equalizer ID *(Board Pro G2, Room Bar Pro, Board Pro, Codec EQ, Room Kit EQX)*

Audio Input Ethernet [1..8] Equalizer Mode *(Board Pro G2, Room Bar Pro, Board Pro G2, Room Bar Pro, Board Pro, Codec EQ, Room Kit EQX)*

Audio Input Ethernet [1..8] Mode *(Board Pro G2, Room Bar Pro, Board Pro, Codec EQ, Room Kit EQX)*

Bookings AdhocBooking BookAhead Enabled *(All products)*

Bookings DeclinableBookingType *(All products)*

Cameras Camera ExcludedArea *(Desk Mini, Desk Pro, Room 55, Room Bar, Room Kit, Room Kit Mini, Cisco Desk)*

Cameras Camera Whitebalance Compensation Level *(Room Bar)*

Cameras Camera [1..7] ExcludedArea *(Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Cameras Camera [1..7] PtzAutoFraming *(Codec EQ, Codec Plus, Codec Pro, Room 55 Dual, Room 70, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama)*

Cameras Camera [1] ExcludedArea *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [1] Whitebalance Compensation Level *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [2] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [2] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [3] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [3] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [4] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [4] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [5] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [5] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [6] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [6] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [7] Standby Mode *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras Camera [7] VideoFormat *(Board Pro, Board Pro G2, Room Bar Pro)*

Cameras SpeakerTrack GroupAndSpeaker Mode *(Board Pro G2, Codec EQ, Codec Pro, Room 70 G2, Room Bar Pro, Room Kit EQX)*

Files Services Webex SaveToUser *(All products)*

Security Enrollment KeySize *(All products)*

Standby WakeupOnPairing *(All products)*

UserInterface Bookings AdhocBooking TimeSlotSize *(All products)*

UserInterface Bookings AdhocBooking UseDefaultTitle *(All products)*

UserInterface Bookings Visibility AllDayMeetings *(All products)*

UserInterface Bookings Visibility NonJoinableMeetings *(All products)*

UserInterface Bookings Visibility Personal FullDayCalendar *(All products)*

UserInterface Bookings Visibility Personal NonJoinableMeetings *(All products)*

UserInterface DecemberThemeBeta *(All products)*

UserInterface DevicePersonalization QRCodeNotification *(Desk Mini, Desk Pro, Cisco Desk)*

UserInterface DevicePersonalization QRCodeNotification *(Board, Board Pro, Board Pro G2)*

UserInterface Features Share MTRAutoSelectSource *(All products)*

Video Input AirPlay PresentationSelection *(Board 55S, Board 70S, Board 85S, Board Pro, Board Pro G2, Codec EQ, Codec Plus, Codec Pro, Desk Mini, Desk 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, Cisco Desk)*

Webex UpgradeChannel *(All products)*

Configurations that are modified

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

OLD: Auto/BeamsAndExtMics

NEW: Auto/BeamsAndExtMics/OnlyExtMics

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Audio Ultrasound MaxVolume *(Codec EQ, Room Kit EQX)*
- OLD: Integer (0..70)
- NEW: Integer (0..90)

Cameras SpeakerTrack DefaultBehavior *(Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama, Board Pro G2, Room Bar Pro)*
- OLD: Auto/BestOverview/Closeup/Current/Frames/Manual
- NEW: Auto/BestOverview/Closeup/Current/Frames/GroupAndSpeaker/Manual

Conference Webex CallProtocolIPStack *(All products)*
- OLD: Preferlpv4/Preferlpv6
- NEW: Dual/Preferlpv4/Preferlpv6

MicrosoftTeams CVI CrossTenant *(All products)*
- OLD: Default: Disabled
- NEW: Default: Auto

NetworkServices Wifi Settings FrequencyBand *(Board Pro G2, Codec EQ, Room Bar Pro, Room Kit EQX)*
- OLD: 2_4Ghz/5Ghz/Auto
- NEW: 2_4Ghz/5Ghz/6Ghz/Auto

UserInterface RoomScheduler Mode *(All products)*
- OLD: Auto/RoomInUseOnly
- NEW: Auto/CalendarOnly/RoomInUseOnly

Video DefaultMainSource *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- OLD: 1/2/3/4/5/6
- NEW: 1/2/3/4/5/6/7

Video DefaultMainSource *(Board Pro, Board Pro G2, Desk Pro, Room Bar, Room Bar Pro)*
- OLD: 1/2/3
- NEW: 1/2/3/4/5

Video Input Miracast Transport *(All products)*
- OLD: Default: Direct
- NEW: Default: Auto

Video Presentation DefaultSource *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- OLD: 1/2/3/4/5/6
- NEW: 1/2/3/4/5/6/7

Video Presentation DefaultSource *(Board Pro, Board Pro G2, Desk Pro, Room Bar, Room Bar Pro)*
- OLD: 1/2/3
- NEW: 1/2/3/4/5

Configurations that are removed

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

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

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

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

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

Audio Input Ethernet [1..3] EchoControl Mode *(Board Pro, Codec EQ, Room Kit EQX, Board Pro G2, Room Bar Pro)*

Audio Input Ethernet [1..3] EchoControl NoiseReduction *(Board Pro, Codec EQ, Room Kit EQX, Board Pro G2, Room Bar Pro)*

Audio Input Ethernet [1..3] Equalizer ID *(Board Pro, Codec EQ, Room Kit EQX, Board Pro G2, Room Bar Pro)*

Audio Input Ethernet [1..3] Equalizer Mode *(Board Pro, Codec EQ, Room Kit EQX, Board Pro G2, Room Bar Pro)*

Audio Input Ethernet [1..3] Mode *(Board Pro, Codec EQ, Room Kit EQX, Board Pro G2, Room Bar Pro)*

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xCommand changes in RoomOS 11.24

New Commands

MicrosoftTeams SignOut *(All products)*

Peripherals Diagnostics Add *(All products)*

Peripherals Diagnostics Clear *(All products)*

Peripherals Security Certificates Services Activate *(All products)*

Peripherals Security Certificates Services Enrollment SCEP Request *(All products)*

Peripherals Security Certificates Services Show *(All products)*

Provisioning RoomType Activate *(Board Pro G2)*

RemoteAccess EndSession *(All products)*

Security Certificates Services Enrollment Profiles Delete *(All products)*

Security Certificates Services Enrollment Profiles List *(All products)*

Security Certificates Services Enrollment SCEP Profiles Set *(All products)*

Security Certificates Services Enrollment SCEP Request *(All products)*

Commands that are modified

Audio LocalInput Ethernet Register *(Board Pro, Codec EQ, Codec Pro, Room 70 G2, Room Kit EQX, Room Panorama, Room 70 Panorama, Board Pro G2, Room Bar Pro)*

OLD: StreamName: Required: Required parameter

NEW: StreamName: Required: Optional parameter

Bookings Book *(All products)*

OLD: MeetingPlatform: String (0, 128)

NEW: MeetingPlatform: GoogleMeet/MicrosoftTeams/None/Other/Webex/Zoom

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

NEW: Protocol: H323/IP/ISDN/None/SIP/Spark/WebRTC

Bookings Edit *(All products)*

OLD: MeetingPlatform: String (0, 128)

NEW: MeetingPlatform: GoogleMeet/MicrosoftTeams/None/Other/Webex/Zoom

OLD: Protocol: String (0, 128)

NEW: Protocol: H323/IP/ISDN/None/SIP/Spark/WebRTC

Bookings Extend *(All products)*

OLD: Id: Required: Required parameter

NEW: Id: Required: Optional parameter

NEW: MeetingId: String (1, 128)

Bookings Get *(All products)*

OLD: Id: Required: Required parameter

NEW: Id: Required: Optional parameter

NEW: MeetingId: String (1, 128)

Bookings NotificationSnooze *(All products)*

OLD: Id: Default:

NEW: Id: Default: <Not specified>

OLD: Id: String (0, 128)

NEW: Id: String (1, 128)

NEW: MeetingId: String (1, 128)

MicrosoftTeams Join *(All products)*

OLD: Url: String (0, 255)

NEW: Url: String (0, 2000)

Network Wifi Configure *(All products)*

OLD: AllowMissingCA: Default: <Not specified>

NEW: AllowMissingCA: Default: False

Network Wifi Scan Start *(All products)*

OLD: Duration: Default: 10

NEW: Duration: Default: 0

OLD: Duration: Integer (1..120)

NEW: Duration: Integer (0..120)

Presentation Start *(Board, Desk Mini, Room Kit Mini, Room Kit)*

OLD: PresentationSource: 1/2/AirPlay/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: WebViewId: Integer (0..65534)

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Presentation Start *(Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama)*

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

NEW: ConnectorId: IntegerArray (1..10) [multiple 4]

OLD: PresentationSource: 1/2/3/4/5/6/AirPlay/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/10/2/3/4/5/6/7/8/9/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: WebViewId: Integer (0..65534)

Presentation Start *(Board Pro, Board Pro G2, Room Bar, Room Bar pro, Desk Pro)*

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

NEW: ConnectorId: IntegerArray (1..10) [multiple 4]

OLD: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/5/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: WebViewId: Integer (0..65534)

Presentation Start *(Codec EQ, Room Kit EQX)*

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

NEW: ConnectorId: IntegerArray (1..9) [multiple 4]

OLD: PresentationSource: 1/2/3/4/5/6/AirPlay/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/4/5/6/7/8/9/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: WebViewId: Integer (0..65534)

Presentation Start *(Codec Plus, Room 55, Room 55 Dual, Room 70 Dual, Webex Desk, Room 70 Single)*

OLD: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView [multiple 4]

NEW: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView [multiple 4]

NEW: WebViewId: Integer (0..65534)

Presentation Stop *(Board, Desk Mini, Room Kit Mini, Room Kit)*

OLD: PresentationSource: 1/2/AirPlay/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: WebViewId: Integer (0..65534)

Presentation Stop *(Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama)*

OLD: PresentationSource: None/AirPlay/Miracast/Remote/1/2/3/4/5/6/WebView

NEW: PresentationSource: None/AirPlay/DirectShare/Miracast/Remote/WebView/1/2/3/4/576/7/8/9/10

NEW: WebViewId: Integer (0..65534)

Presentation Stop *(Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Desk Pro)*

OLD: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/4/5/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: WebViewId: Integer (0..65534)

Presentation Stop *(Codec EQ, Room Kit EQX)*

OLD: PresentationSource: None/AirPlay/Miracast/Remote/1/2/3/4/WebView

NEW: PresentationSource: None/AirPlay/DirectShare/Miracast/Remote/WebView/1/2/3/4/5/6/7/8/9

NEW: WebViewId: Integer (0..65534)

Presentation Stop *(Codec Plus, Room 55, Room 55 Dual, Room 70 Dual, Webex Desk, Room 70 Single)*

OLD: PresentationSource: 1/2/3/AirPlay/Miracast/None/Remote/WebView

NEW: PresentationSource: 1/2/3/AirPlay/DirectShare/Miracast/None/Remote/WebView

NEW: WebViewId: Integer (0..65534)

UserInterface Presentation ExternalSource Add *(Codec Pro, Room 70 G2, Room 70 Panorama, Room Panorama)*

OLD: ConnectorId: Integer (1..6)

NEW: ConnectorId: Integer (1..7)

UserInterface Presentation ExternalSource Add *(Board Pro, Board Pro G2, Room Bar, Room Bar Pro, Desk Pro)*

OLD: ConnectorId: Integer (1..3)

NEW: ConnectorId: Integer (1..5)

UserManagement User Passphrase Change *(All products)*

NEW: SecurityAction: InvalidateAllUserSessions/None

UserManagement User Passphrase Set *(All products)*

NEW: SecurityAction: InvalidateAllUserSessions/None

Video CEC Input KeyClick *(Room Bar Pro, Room Bar)*

OLD: ConnectorId: Integer (1..3)

NEW: ConnectorId: Integer (1..5)

Video CEC Input KeyClick *(Board Pro, Board Pro G2, Desk Pro)*

OLD: ConnectorId: Integer (2..3)

NEW: ConnectorId: Integer (2..5)

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

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

NEW: ConnectorId: IntegerArray (1..7) [multiple 4]

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

NEW: SourceId: 1/10/2/3/4/5/6/7/8/9/AirPlay/Miracast [multiple 4]

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Video Input SetMainVideoSource *(Board Pro G2, Room Bar Pro, Board Pro, Desk Pro, Room Bar)*
- OLD: ConnectorId: IntegerArray (1..3) [multiple 4]
- NEW: ConnectorId: IntegerArray (1..5) [multiple 4]
- OLD: SourceId: 1/2/3/AirPlay/Miracast [multiple 4]
- NEW: SourceId: 1/2/3/4/5/AirPlay/Miracast [multiple 4]

Video Input SetMainVideoSource *(Codec EQ, Room Kit EQX)*
- OLD: SourceId: 1/2/3/4/5/6/AirPlay/Miracast [multiple 4]
- NEW: SourceId: 1/2/3/4/5/6/7/8/9/AirPlay/Miracast [multiple 4]

Video Layout StageParticipants Set ById *(All products)*
- NEW: ActiveSpeakerIndex: Integer (0..8)
- OLD: ParticipantId: StringArray (1, 255) [multiple 4]
- NEW: ParticipantId: StringArray (1, 255) [multiple 8]

Video Layout StageParticipants Set ByName *(All products)*
- NEW: ActiveSpeakerIndex: Integer (0..8)
- OLD: ParticipantName: StringArray (1, 255) [multiple 4]
- NEW: ParticipantName: StringArray (1, 255) [multiple 8]

Video Matrix Assign *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- OLD: SourceId: IntegerArray (1..6) [multiple 4]
- NEW: SourceId: IntegerArray (1..7) [multiple 4]

Video Matrix Assign *(Room Bar Pro, Room Bar)*
- OLD: SourceId: IntegerArray (1..3) [multiple 4]
- NEW: SourceId: IntegerArray (1..5) [multiple 4]

Video Matrix Unassign *(Codec Pro, Room 70 G2, Room Panorama, Room 70 Panorama)*
- OLD: SourceId: Integer (1..6)
- NEW: SourceId: Integer (1..7)

Video Matrix Unassign *(Room Bar Pro, Room Bar)*
- OLD: SourceId: Integer (1..3)
- NEW: SourceId: Integer (1..5)

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xStatus changes in RoomOS 11.24

New Statuses

MediaChannels DirectShare [n] Channel [n] EncryptionType *(All products)*

MediaChannels Miracast [n] Channel [n] Audio Channels *(All products)*

MediaChannels Miracast [n] Channel [n] Audio Protocol *(All products)*

MediaChannels Miracast [n] Channel [n] Encryption *(All products)*

MediaChannels Miracast [n] Channel [n] EncryptionType *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat Bytes *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat ChannelRate *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat Jitter *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat LastIntervalLost *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat LastIntervalReceived *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat Loss *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat MaxJitter *(All products)*

MediaChannels Miracast [n] Channel [n] Netstat Packets *(All products)*

MediaChannels Miracast [n] Channel [n] Video FrameRate *(All products)*

MediaChannels Miracast [n] Channel [n] Video Protocol *(All products)*

MediaChannels Miracast [n] Channel [n] Video ResolutionX *(All products)*

MediaChannels Miracast [n] Channel [n] Video ResolutionY *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Encryption *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] EncryptionType *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Bytes *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat ChannelRate *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Jitter *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat LastIntervalLost *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat LastIntervalReceived *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Loss *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat MaxJitter *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Netstat Packets *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video FrameRate *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video Protocol *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video ResolutionX *(All products)*

MediaChannels VideoInputEthernet [n] Channel [n] Video ResolutionY *(All products)*

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

Network [n] LLDP Chassis ID *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP Chassis IDType *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP Duplex *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP Port ID *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP Port IDType *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP PrimaryMgmtAddress *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP SysDescr *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP SysName *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Network [n] LLDP VoiceVlanID *(Board Pro, Board Pro G2, Codec EQ, Codec Pro, Desk Mini, Desk Pro, Room 70 G2, Room Bar, Room Bar Pro, Room Kit EQX, Room Panorama, Room 70 Panorama, Cisco Desk)*

Provisioning RoomType *(Board Pro G2)*

RoomAnalytics ReverberationTime MeasurementState *(All products)*

UserInterface Accessibility ScreenReader Mode *(All products)*

Video Layout ActiveSpeakerOnStage *(All products)*

Video Layout StageActiveSpeakerIndex *(All products)*

Webex DevicePersonalization Personalized *(All products)*

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Statuses that are modified

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

Added to valuespace: AndroidOSVersion/CeilingMicPlacementNotCalibrated/HotdeskSignInNotConfigured/LinkLayerDiscoveryConfiguration/MacrosCommonJsDeprecation/MacrosErrorLoggedInConsole/MacrosJsError/NetworkAdminRemoteaccessConfigured/SoftwareReleaseRemark/StereoscopicInsufficientBandwidth/ThirdPartyAppDownloadFailed/WhiteboardAppServiceConnectivity

Removed from valuespace: HologramCameras/InvalidExtensionEnabled/MacrosErrorLogged

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

OLD: DisplayOff/Networked/None/Standby

NEW: DeepSleep/DisplayOff/Networked/None

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

OLD: ECM/ECMSignIn/EmbeddedApp/Integration/Kiosk/None/PersistentWebApp/Signage/WebApp/WebRTCMeeting/WebWidget

NEW: ECM/ECMSignIn/EmbeddedApp/Integration/Kiosk/None/PersistentWebApp/Signage/WebApp/WebRTCMeeting/WebWidget/Whiteboard

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

OLD: 3G-SDI/Camera/HD-SDI/HDMI/USB/USBC-DP/Unknown/Unused

NEW: 3G-SDI/Camera/Ethernet/HD-SDI/HDMI/USB/USBC-DP/Unknown/Unused

Video Input MainVideoSource *(All products)*

OLD: 1/2/3/4/5/6/Composed

NEW: 1/2/3/4/5/6/7/Composed

Statuses that are removed

UserInterface RemoteAccess Session [n] InitiatorName *(All products)*

UserInterface RemoteAccess Session [n] InitiatorPermit *(All products)*

UserInterface RemoteAccess Session [n] State *(All products)*

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Chapter 2

About the API

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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.

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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[1]

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 45 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.

[1] API access over a serial connection is not available for Room 55 Dual or Room 70.

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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).[2]

- *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.[3]

```
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.[4] 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) RECOMMENDED 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

[2] API access over a serial connection is not available for Room 55 Dual or Room 70.

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

[4] Applies only to the ports that are used to accesss the devices's API. A dedicated maintenance port (micro USB) always uses the default baud rate.

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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 developement 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 a passphrase must be set on first login to the device web interface or the terminal (xAPI).

NOTE: If you're setting up a new or factory reset device for another administrator, it is important that the passphrase that is initially set is securely communicated to the device administrator to ensure continued access to the device.

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.

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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>
```


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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 39.

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 39.

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 39.

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 43.

xPreferences

The `xPreferences` command is used to set preferences for the RS-232 and SSH sessions.
Refer to API output on page 36.

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 42.

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 43.

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.

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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
```


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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>
```


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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
```


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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>
```


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Events

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


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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 47 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	xStatus	/Status
Configuration	xConfiguration	/Configuration
Event	xEvent	/Event

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
```


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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
```


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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.

Restarting the device will invalidate all sessions.

URL cheat sheet

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

Method	URL	Description
GET	http://<ip-address>/status.xml	Complete status document
GET	http://<ip-address>/configuration.xml	Complete configuration document
GET	http://<ip-address>/command.xml	Complete command document
GET	http://<ip-address>/valuespace.xml	Complete valuespace document
GET	http://<ip-address>/getxml?location=<path>	Retrieve document based on a path
POST	http://<ip-address>/putxml	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=f081
02c8ce5aaf8fba23a7238cc2ef-
464b990e18bfbb7fb048820c0e2
8955c54; 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=f08102c8ce
5aaf8fba23a7238cc2ef464b990e
18bfbb7fb048820c0e28955c54
```

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=f08102c8ce
5aaf8fba23a7238cc2ef464b990e
18bfbb7fb048820c0e28955c54
```

Response:

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


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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>
```


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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>
    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 43 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/
                myhttppostscripturl</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>
```


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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>
```


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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.

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Chapter 3

xConfiguration commands

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Description of the xConfiguration commands

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

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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 half-wake 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 half-wake mode in some scenarios.

Off: The background is black in half-wake 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).

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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: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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

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xConfiguration Audio Ethernet SAPDiscovery Mode

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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, 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 ouput, 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

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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..8 *[RoomBarPro RoomKitEQX CodecEQ BoardProG2]*

Gain:

Integer (0..70)

Range: Select the gain in decibel (dB).

Default value:

45

xConfiguration Audio Input Ethernet [n] Channel [1..4] Level

Applies to: RoomBar

Requires user role: ADMIN, INTEGRATOR

Sets the gain for the specified channel of an Ethernet input, e.g. a microphone or audio interface. We allow up to 4 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..4] Level: Level
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1 *[RoomBar]*

Level:

Integer (0..70)

Range: Select the gain in decibel (dB).

Default value:

45

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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..8 *[CodecPro Room70G2 BoardPro]*

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..4] Mode

Applies to: RoomBar

Requires user role: ADMIN, INTEGRATOR

Disables or enables audio on the specified channel of an Ethernet input. We allow up to 4 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..4] Mode: Mode
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1 *[RoomBar]*

Mode:

Off/On

Off: Disable audio from this channel.

On: Enable audio from this channel.

Default value:

On

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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 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

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..4] Pan

Applies to: RoomBar

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..4] Pan: Pan
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1 *[RoomBar]*

Pan:

Left/Mono/Right

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] 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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Pan:

Left/Mono/Right

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

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xConfiguration Audio Input Ethernet [n] Channel [1..4] Zone

Applies to: RoomBar

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..4] Zone: Zone
```

where

n: Unique ID that identifies the logical Ethernet input.

Range: 1 *[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 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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

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

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xConfiguration Audio Input Ethernet [n] EchoControl Mode

Applies to: RoomBar 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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Range: 1 *[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 Ethernet [n] EchoControl NoiseReduction

Applies to: RoomBar 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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Range: 1 *[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

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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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Range: 1 *[RoomBar]*

ID:

1/2/3/4/5/6/7/8

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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Range: 1 *[RoomBar]*

Mode:

Off/On

Off: Do not apply equalization processing.

On: Apply equalization processing.

Default value:

Off

xConfiguration Audio Input Ethernet [n] Mode

Applies to: RoomBar 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..8 *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

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

Range: 1 *[RoomBar]*

Mode:

Off/On

Off: Disable all audio from this input.

On: Enable audio from active channels.

Default value:

On

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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

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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

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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

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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:

1/2/3/4/5/6/7/8

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

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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]*

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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

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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

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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 *[RoomKitEQX CodecEQ]*

1/2/3/4/5/6 *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

The video input connector that the microphone is associatied 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

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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/OnlyExtMics

Auto: When one or more Cisco digital microphones are connected and the Cisco digital microphone setup wizard has been completed, the new smart audio mixer uses both the internal beams and the Cisco digital microphones.

For other types of external microphones, the internal beams are disabled.

BeamsAndExtMics: The audio mixer always uses internal beams and external microphones for voice pickup. When using Cisco digital microphones, we recommend using the Auto setting as it provides a smarter audio mixer, considering the placement of the Cisco digital microphone.

OnlyExtMics: Uses only external microphones for voice pickup and falls back to internal beams if no external microphones are connected.

Default value:

Auto

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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

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xConfiguration Audio Input USBC [n] VideoAssociation MuteOnInactiveVideo

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

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

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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

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xConfiguration Audio Input USBMicrophone [n] EchoControl Mode

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro 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 concellation 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

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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

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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:

InCallOnly/True

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

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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, INTEGRATOR

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]*

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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 Direct DelayMs

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You can apply a dedicated direct delay to the audio output, which will affect all inputs from input groups where the Direct mode is enabled. This configuration is particularly useful for scenarios such as local sound reinforcement and voice lift.

USAGE:

```
xConfiguration Audio Output ARC [n] Delay Direct DelayMs: DelayMs
```

where

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]*

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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 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 ARC [n] Ultrasound

Applies to: CodecEQ CodecPro

Requires user role: ADMIN, INTEGRATOR

This configuration determines whether ultrasound can be emitted through this connector.

USAGE:

```
xConfiguration Audio Output ARC [n] Ultrasound: Ultrasound
```

where

Ultrasound:

Auto/Off

Auto: Ultrasound can be emitted through this connector.

Off: Ultrasound will not be emitted through this connector.

Default value:

Auto

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

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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 Ethenet [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 Direct DelayMs

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You can add a separate direct delay to an audio output. This delay will be applied to all input groups where the Direct mode is activated. This configuration is particularly beneficial for scenarios such as local sound reinforcement and voice lift.

USAGE:

```
xConfiguration Audio Output Ethernet [n] Delay Direct DelayMs: DelayMs
```

where

DelayMs:

Integer (0..290)

The delay in milliseconds.

Default value:

0

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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] Equalizer ID

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Select the equalizer preset to apply to this output.

USAGE:

```
xConfiguration Audio Output Ethernet [n] Equalizer ID: ID
```

where

ID:

1/2/3/4/5/6/7/8

The equalizer preset number.

Default value:

1

xConfiguration Audio Output Ethernet [n] Equalizer Mode

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Enable or disable the equalizer processing for this output.

USAGE:

```
xConfiguration Audio Output Ethernet [n] Equalizer Mode: Mode
```

where

Mode:

Off/On

Off: Do not apply equalization processing.

On: Apply equalization processing.

Default value:

Off

xConfiguration Audio Output Ethernet [n] Gain

Applies to: RoomKitEQX CodecEQ

Requires user role: ADMIN, INTEGRATOR

Adjust the gain on the ethernet output

USAGE:

```
xConfiguration Audio Output Ethernet [n] Gain: Gain
```

where

Gain:

Integer (-30..0)

Select the gain in decibel (dB).

Default value:

0

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xConfiguration Audio Output Ethernet [n] Level

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Adjust the gain settings for the Ethernet output.

USAGE:

```
xConfiguration Audio Output Ethernet [n] Level: Level
```

where

Level:

Integer (-30..0)

Select the gain in decibel (dB).

Default value:

0

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

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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 Direct DelayMs

Applies to: CodecPro

Requires user role: ADMIN, INTEGRATOR

You can add a separate direct delay to an audio output, which will be applied to all inputs from input groups where Direct mode is activated. This configuration is particularly beneficial for scenarios involving local sound reinforcement and voice lift.

USAGE:

```
xConfiguration Audio Output HDMI [n] Delay Direct DelayMs: DelayMs
```

where

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 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 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 output 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

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xConfiguration Audio Output HDMI [n] Gain

Applies to: RoomKitEQX CodecEQ

Requires user role: ADMIN, INTEGRATOR

Set the gain on the HDMI output 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]

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xConfiguration Audio Output HDMI [n] Ultrasound

Applies to: CodecEQ CodecPro

Requires user role: ADMIN, INTEGRATOR

This configuration determines whether ultrasound can be emitted through this connector.

USAGE:

`xConfiguration Audio Output HDMI [n] Ultrasound: Ultrasound`

where

Ultrasound:

Auto/Off

Auto: Ultrasound can be emitted through this connector.
Off: Ultrasound will not be emitted through this connector.

Default value:

Auto

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 sreens(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 *[CodecPlus]*

Off/On/UltrasoundOnly *[RoomKit RoomBarPro RoomKitEQX Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

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

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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 Direct DelayMs

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You can introduce a direct delay to an audio output, which will be applied to all inputs from input groups where Direct mode is activated. This configuration is particularly beneficial for scenarios involving local sound reinforcement and voice lift.

USAGE:

```
xConfiguration Audio Output Line [n] Delay Direct DelayMs: DelayMs
```

where

DelayMs:

Integer (0..290)

The delay in milliseconds.

Default value:

0

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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: 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:

1/2/3/4/5/6/7/8

The equalizer preset number.

Default value:

1

xConfiguration Audio Output Line [n] Equalizer Mode

Applies to: 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

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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

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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 *[RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D BoardPro BoardProG2]*

LineOut/Loudspeaker/Microphone/Recorder/Subwoofer *[RoomKit]*

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 Line [n] Ultrasound

Applies to: CodecEQ CodecPro

Requires user role: ADMIN, INTEGRATOR

This configuration determines whether ultrasound can be emitted through this connector.

USAGE:

`xConfiguration Audio Output Line [n] Ultrasound: Ultrasound`

where

n: Unique ID that identifies the video input connector.

Range: 1..6 *[CodecPro]*

Range: 1 *[CodecEQ]*

Ultrasound:

Auto/Off

Auto: Ultrasound can be emitted on this connector.

Off: Ultrasound will not be emitted on this connector.

Default value:

Auto

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

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xConfiguration Audio Output USBInterface [n] Delay DelayMs

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

To obtain lip-synchronization, you can configure each USB Interface 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 USBInterface [n] Delay Mode setting.

USAGE:

```
xConfiguration Audio Output USBInterface [n] Delay DelayMs: DelayMs
```

where

DelayMs:

Integer (0..290)

The delay in milliseconds.

Default value:

0

xConfiguration Audio Output USBInterface [n] Delay Direct DelayMs

Applies to: CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You can introduce a distinct direct delay to an audio output, which will be applied to all inputs from input groups where Direct mode is activated. This configuration is particularly beneficial for scenarios involving local sound reinforcement and voice lift.

USAGE:

```
xConfiguration Audio Output USBInterface [n] Delay Direct DelayMs: DelayMs
```

where

DelayMs:

Integer (0..290)

The delay in milliseconds.

Default value:

0

xConfiguration Audio Output USBInterface [n] Delay Mode

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

You may add extra delay to an audio USB Interface output with the Audio Output USBInterface [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 USBInterface [n] Delay Mode: Mode
```

where

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 USBInterface [n] DelayMs status reports the actual delay.

Default value:

RelativeToHDMI

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

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xConfiguration Audio Output USBInterface [n] Ultrasound

Applies to: CodecEQ CodecPro

Requires user role: ADMIN, INTEGRATOR

This configuration determines whether ultrasound can be emitted through this connector.

USAGE:

`xConfiguration Audio Output USBInterface [n] Ultrasound: Ultrasound`

where

Ultrasound:

Auto/Off

Auto: Ultrasound can be emitted on this connector.
Off: Ultrasound will not be emitted on this connector.

Default value:

Off

xConfiguration Audio Panning Mode

Applies to: RoomBar RoomBarPro Room55 Room70/Room55D Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

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

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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 DTMFFeedback

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Introduces a configurable option to enable or disable DTMF audio feedback. Previously, the device always played audio feedback when DTMF keys were pressed, whether through the WebUI or Phoenix interface. With this update, customers can choose to turn DTMF audio feedback on or off, in response to requests for greater flexibility.

USAGE:

```
xConfiguration Audio SoundsAndAlerts DTMFFeedback: DTMFFeedback
```

where

DTMFFeedback:

Off/On

On: Enables DTMF audio feedback

Off: Disables DTMF audio feedback

Default value:

On

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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:

String (1, 100)

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..70) *[RoomKit RoomKitMini RoomBar RoomBarPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Integer (0..90) *[RoomKitEQX CodecEQ CodecPlus CodecPro]*

Select a value in the specified range. If set to 0, ultrasound pairing messages are not emitted.

Default value:

70

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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:

AdditionalMicrophone/AdditionalSpeaker/Microphone/Off/Speaker/SpeakerAndMicrophone *[RoomKitMini RoomBar]*

AdditionalSpeaker/Microphone/Off/Speaker/SpeakerAndMicrophone *[RoomKit RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2]*

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, INTEGRATOR, 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

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xConfiguration Audio USB VolumeControl Capture Value

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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

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xConfiguration Audio USB VolumeControl Playback Value

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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, TOUCHUSER

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 CustomBeacon Data

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, TOUCHUSER

BLE beacon data will be broadcast using the BLE Advertising protocol.

USAGE:

```
xConfiguration Bluetooth CustomBeacon Data: "Data"
```

where

Data:

String (0, 58)

Data should be formatted as a hexadecimal string, with the first two bytes representing the vendor code.

Default value:

""

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xConfiguration Bluetooth CustomBeacon Mode

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, TOUCHUSER

Defines whether the custom beacons will be broadcast or not.

USAGE:

```
xConfiguration Bluetooth CustomBeacon Mode: Mode
```

where

Mode:

Auto/Off

Auto – Broadcasts all custom beacons defined. Off – Stops broadcasting all custom beacons

Default value:

Off

xConfiguration Bluetooth Enabled

Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, TOUCHUSER

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

xConfiguration Bluetooth LEAdvertisementOutputLevel

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, TOUCHUSER

Adjust the BLE advertisement transmit power level in dbm.

USAGE:

```
xConfiguration Bluetooth LEAdvertisementOutputLevel:
LEAdvertisementOutputLevel
```

where

LEAdvertisementOutputLevel:

0/4/-4/-8 *[RoomBarPro RoomKitEQX CodecEQ]*

0/4/8/12/-12/-16/-4/-8 *[RoomBar CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

BLE advertisement transmit power level in dbm.

Default value:

0

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Bookings configuration

xConfiguration Bookings AdhocBooking BookAhead Enabled

Applies to: All products

Requires user role: ADMIN

Book Ahead allows users to schedule shared spaces for future times. With Book Ahead enabled, users can book rooms for times later in the day, even if the space is currently booked, through a controller, board, or scheduler.

USAGE:

`xConfiguration Bookings AdhocBooking BookAhead Enabled: Enabled`

where

Enabled:

False/True

False: Book ahead is not available.

True: Book ahead is available.

Default value:

False

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

Configures 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

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xConfiguration Bookings CheckIn AutoCheckInDuration

Applies to: All products

Requires user role: ADMIN

This setting is applicable only when the check-in option is enabled (refer to the Bookings Check-in Enabled setting).

When enabled, bookings with extended durations, such as full-day bookings, are more likely to be automatically checked out and removed if users do not arrive in time to check in.

Use this setting to specify the duration threshold for a booking to be automatically checked in, preventing it from being removed by the check-in setting.

USAGE:

```
xConfiguration Bookings CheckIn AutoCheckInDuration: AutoCheckInDuration
```

where

AutoCheckInDuration:

Integer (8..24)

The minimum length of time (in hours) a booking must be in order to be automatically checked in.

Default value:

8

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

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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 DeclinableBookingType

Applies to: All products

Requires user role: ADMIN

This configuration allows you to control the type of meetings that can be declined on the device. Options include restricting declines to all meetings or only ad-hoc meetings. This is used with the AllowDecline configuration.

This setting does not affect the CheckIn feature.

USAGE:

```
xConfiguration Bookings DeclinableBookingType: DeclinableBookingType
```

where

DeclinableBookingType:

AdhocOnly/All

All: All types of meetings can be declined.

Adhoc: Only ad-hoc meetings can be declined.

Default value:

AdhocOnly

xConfiguration Bookings MaxDuration

Applies to: All products

Requires user role: ADMIN

You can set the maximum duration allowed for ad hoc room booking and hot desking. For example, if set to 2 (hours), the time selector will only give you the next two hours for a max duration of your booking.

USAGE:

```
xConfiguration Bookings MaxDuration: MaxDuration
```

where

MaxDuration:

Integer (0..24)

Maximum booking duration (in hours)

Default value:

0

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

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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. To enable HID forwarding, ensure the configuration parameter Peripherals InputDevice Mode is set to Off.

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 Board

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 DeskMini Desk Board BoardPro BoardProG2

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

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xConfiguration BYOD USBCXapi

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk BoardPro BoardProG2

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 USBCXapi: USBCXapi
```

where

USBCXapi:

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

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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:

""

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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

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xConfiguration Cameras Camera [n] Brightness DefaultLevel

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama 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: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama 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

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xConfiguration Cameras Camera [n] ExcludedArea

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

When set, this configuration instructs the Multi Camera Director to ignore faces that appear in selected areas of a camera's field of view.

The format is a list of polygons separated by semicolons. Each polygon is defined by 3 or more coordinate pairs, separated by commas.

The coordinates are spherical and expressed in hundredths of degrees. For example, "0,0" would indicate a ray pointing straight out of the camera.

"100,100" would indicate a ray pointing one degree to the left and one degree up from the camera. For a motorized camera, the coordinate system

is relative to the neutral position of the camera, and does not change when the camera moves.

For multi camera setups it is useful to note that the exclusion zones are defined per camera.

Example:

"1000,500, 500,500, 500,-500, 1000,500; -2000,-1000, -2500,-1000, -2500,-1500, -2000,-1500"

This defines two exclusion zones:

- The first is from (10°,5°) to (5°,-5°).
- The second is from (-20°,-10°) to (-25°,-15°)

USAGE:

```
xConfiguration Cameras Camera [n] ExcludedArea: "ExcludedArea"
```

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]*

ExcludedArea:

String (0, 255)

Default value:

""

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

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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..14)

Define the gamma level.

Default value:

0

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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 devices 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

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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

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xConfiguration Cameras Camera [n] PtzAutoFraming

Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Enables the PTZ AutoFraming feature of the Sony SRG-A40 and SRG-A12.

USAGE:

```
xConfiguration Cameras Camera [n] PtzAutoFraming: PtzAutoFraming
```

where

n: Unique ID that identifies the camera.

Range: 1..7

PtzAutoFraming:

Off/On

Off: Disables the AutoFraming feature.

On: Enables the AutoFraming feature.

Default value:

On

xConfiguration Cameras Camera [n] Standby Mode

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Configures the standby mode for the specified camera [n].

USAGE:

```
xConfiguration Cameras Camera [n] Standby Mode: Mode
```

where

n: Unique ID that identifies the camera.

Range: 1..7

Mode:

Disabled/Enabled

Disabled: When the device enters standby mode, no power-off command is sent to the camera. Upon exiting standby, the camera remains in its previous state without any additional movement, making it immediately available for use.

Enabled: When the device enters standby mode, power-off is sent to the camera. Upon exiting standby, power-on is issued, causing the camera to perform a calibration process. During calibration, the camera pans to its maximum position and then returns to the center, which takes approximately 12 seconds.

Default value:

Enabled

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xConfiguration Cameras Camera [n] VideoFormat

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Sets 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 Compensation Level

Applies to: RoomBarPro BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Sets the white balance compensation level of the specified camera. If you find the camera image always to be too cold (with blue-ish tint) or too warm (with yellow-ish tint), you can use this setting to offset the default auto white balance. The white balance will continue to be adjusted automatically.

Negative values of this setting will make the image appear colder, while positive values will make it appear warmer. The device must be restarted after changing this setting for the change to take effect.

USAGE:

```
xConfiguration Cameras Camera [n] Whitebalance Compensation Level: Level
```

where

n: Unique ID that identifies the camera.

Range: 1..1

Level:

Integer (-3..3)

The white balance compensation level of the camera.

Default value:

0

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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-12 camera, which is 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

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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

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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..10) *[RoomKitEQX CodecEQ CodecPro Room70G2]*

Integer (1..3) *[CodecPlus Room70/Room55D]*

Integer (2..2) *[RoomBarPro]*

Integer (3..3) *[BoardPro BoardProG2]*

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

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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:

""

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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/GroupAndSpeaker/Manual *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardProG2]*

Auto/BestOverview/Closeup/Current/Frames/Manual *[RoomKit RoomBar CodecPlus Room55 Room70/Room55D Board BoardPro]*

Auto/BestOverview/Current/Frames/Manual *[RoomKitMini]*

Auto/BestOverview/Current/Manual *[DeskPro DeskMini Desk]*

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.

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

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xConfiguration Cameras SpeakerTrack Frames RowConfiguration

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

Requires user role: ADMIN, USER

Defines the “Frames” camera mode behavior when the number of people in the room exceeds four.

USAGE:

```
xConfiguration Cameras SpeakerTrack Frames RowConfiguration: RowConfiguration
```

where

RowConfiguration:

MultiRow/SingleRow

SingleRow: creates a grid layout with a single horizontal row of grid cells, each containing either groups of people or individual participants.

MultiRow: arranges individually framed people across two rows, providing a double-row grid layout.

If a grid cannot be formed in either mode, the system defaults to a 16:9 framing that includes all participants within the view.

Default value:

SingleRow

xConfiguration Cameras SpeakerTrack GroupAndSpeaker Mode

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardProG2

Requires user role: ADMIN, USER

Group and Speaker camera mode sends two views of the meeting room simultaneously to remote meeting participants: a group overview and a close-up of the active speaker. There need to be at least three people in the room for Group and Speaker mode.

USAGE:

```
xConfiguration Cameras SpeakerTrack GroupAndSpeaker Mode: Mode
```

where

Mode:

Auto/Off

Auto: Group and Speaker mode is enabled.

Off: Group and Speaker mode is disabled.

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

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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 MultiCamera CalibrationMonitoring

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, USER

Decide if you would like to show a diagnostics message for badly calibrated cameras. If it is set to Enabled, the badly calibrated cameras will not be used for tracking.

USAGE:

```
xConfiguration Cameras SpeakerTrack MultiCamera CalibrationMonitoring:
CalibrationMonitoring
```

where

CalibrationMonitoring:

Disabled/Enabled

Default value:

Enabled

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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/5x/Auto *[RoomKit RoomBar RoomBarPro Room55 BoardPro BoardProG2]*

3x/4x/Auto *[RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

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

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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

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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..3) *[CodecPlus]*

Integer (1..5) *[RoomKitEQX CodecEQ CodecPro]*

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
```

where

CameraRight:

Integer (1..3) *[CodecPlus]*

Integer (1..5) *[RoomKitEQX CodecEQ CodecPro]*

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

Mode:

Off/On

Default value:

Off

xConfiguration Cameras Stereoscopic Mode

Applies to: RoomBarPro BoardProG2

Requires user role: ADMIN, USER

Turn on if you would like stereoscopic 3D video to be sent when a participant with compatible hardware joins the meeting.

USAGE:

```
xConfiguration Cameras Stereoscopic Mode: Mode
```

where

Mode:

Off/On

Default value:

Off

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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 CallProtocolIPStack

Applies to: All products

Requires user role: ADMIN

Select whether the device should enable IPv4, IPv6, or dual IP stack for the call protocol (SIP, H323). For Webex, refer to the Conference Webex CallProtocolIPStack setting.

USAGE:

```
xConfiguration Conference CallProtocolIPStack: CallProtocolIPStack
```

where

CallProtocolIPStack:

Dual/IPv4/IPv6

Dual: Enables both IPv4 and IPv6 for the call protocol.

IPv4: The call protocol will use IPv4.

IPv6: The call protocol will use IPv6.

Default value:

Dual

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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..10000) *[Board]*

Integer (64..20000) *[RoomPanorama/Room70Panorama]*

Integer (64..6000) *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk BoardPro BoardProG2]*

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]*

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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. If set to 0, the Conference DefaultCall Rate is also used for Webex calls.

USAGE:

```
xConfiguration Conference DefaultCall Webex Rate: Rate
```

where

Rate:

Integer (0..10000) *[Board]*

Integer (0..20000) *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

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 Diagnostics DegradedQualityNotifications

Applies to: All products

Requires user role: ADMIN

Controls whether users are shown in-call notifications about network issues and degraded call quality, or not.

USAGE:

```
xConfiguration Conference Diagnostics DegradedQualityNotifications:
DegradedQualityNotifications
```

where

DegradedQualityNotifications:

Off/On

Off: notifications about network issues and degraded call quality will not be shown.

On: notifications about network issues and degraded call quality will be shown.

Default value:

On

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

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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:

BestEffort/Off/On

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

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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

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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..10000) *[Board]*

Integer (64..20000) *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

Integer (64..6000) *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D]*

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]*

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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..20000) *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Integer (64..6000) *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D]*

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..15000) *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

Integer (64..6000) *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board]*

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]*

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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..15000) *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

Integer (64..6000) *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board]*

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

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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 IncomingMultisiteCall Mode

Applies to: All products

Requires user role: ADMIN

Select whether or not to allow incoming calls when already in a call/conference.

USAGE:

```
xConfiguration Conference IncomingMultisiteCall Mode: Mode
```

where

Mode:

Allow/Deny

Allow: You will be notified when someone calls you while you are already in a call. You can accept the incoming call or not. The ongoing call may be put on hold while answering the incoming call; or you may merge the calls (requires support for multiparty video conferences).

Deny: An incoming call will be rejected if you are already in a call. You will not be notified about the incoming call. However, the call will appear as a missed call in the call history list.

Default value:

Allow

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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:

Active/Auto/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 Presentation OnPlacedOnHold

Applies to: All products

Requires user role: ADMIN

Define whether or not to continue sharing a presentation after the remote site has put you on hold.

USAGE:

```
xConfiguration Conference Presentation OnPlacedOnHold: OnPlacedOnHold
```

where

OnPlacedOnHold:

NoAction/Stop

NoAction: The device will not stop the presentation sharing when put on hold. The presentation will not be shared while you are on hold, but it will continue automatically when the call is resumed.

Stop: The device stops the presentation sharing when the remote site puts you on hold. The presentation will not continue when the call is resumed.

Default value:

NoAction

xConfiguration Conference Presentation RelayQuality

Applies to: All products

Requires user role: ADMIN

This configuration applies to devices that are using the built-in MultiSite feature (optional) to host a multipoint video conference. When a remote user shares a presentation, the device will transcode the presentation and send it to the other participants in the multipoint conference. The RelayQuality setting specifies whether to give priority to high frame rate or to high resolution for the presentation source.

USAGE:

```
xConfiguration Conference Presentation RelayQuality: RelayQuality
```

where

RelayQuality:

Motion/Sharpness

Motion: Gives the highest possible frame rate. Used when there is a need for higher frame rates, typically when there is a lot of motion in the picture.

Sharpness: Gives the highest possible resolution. Used when you want the highest quality of detailed images and graphics.

Default value:

Sharpness

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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:

IPv4/IPv6/Preferlpv4/Preferlpv6

Dual: Enables both IPv4 and IPv6 for the call protocol.

Preferlpv4: The call protocol will use IPv4.

Preferlpv6: The call protocol will use IPv6. This value requires NAT64 and DNS64 in the customer's network.

Default value:

Preferlpv4

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: ""

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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/Other/Security/Transportation

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 SaveToUser

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Allows enabling or disabling the option to save whiteboards to a user's account during the 'Save Your Work' wizard on the whiteboard.

USAGE:

```
xConfiguration Files Services Webex SaveToUser: SaveToUser
```

where

SaveToUser:

Disabled/Enabled

Disabled: the option is not available.

Enaled: the option to save whiteboards to a user's account is available.

Default value:

Disabled

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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

Defines the authentication 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:

""

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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

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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:

""

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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:

""

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xConfiguration H323 PortAllocation

Applies to: All products

Requires user role: ADMIN

This setting affects the H.245 port numbers used for H.323 call signaling.

USAGE:

`xConfiguration H323 PortAllocation: PortAllocation`

where

PortAllocation:

Dynamic/Static

Dynamic: The system will allocate which ports to use when opening a TCP connection. The reason for doing this is to avoid using the same ports for subsequent calls, as some firewalls consider this as a sign of attack. When Dynamic is selected, the H.323 ports used are from 11000 to 20999. Once 20999 is reached they restart again at 11000. The ports are automatically selected by the system within the given range. Firewall administrators should not try to deduce which ports are used when, as the allocation schema within the mentioned range may change without any further notice.

Static: When set to Static the ports are given within a static predefined range [5555-6555].

Default value:

Dynamic

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

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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, 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

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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 Debug Bluetooth

Applies to: All products

Requires user role: ADMIN

When this option in enabled, the video device logs more information about the set-up and maintenance of a Bluetooth connection. This may be useful when you are troubleshooting Bluetooth connection issues.

USAGE:

```
xConfiguration Logging Debug Bluetooth: Bluetooth
```

where

Bluetooth:

Off/On

Off: Logging only basic Bluetooth information.

On: Logging a large amount of information about the Bluetooth connection.

Default value:

On

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xConfiguration Logging Debug Wifi

Applies to: All products

Requires user role: ADMIN

When this option in enabled, the device logs more information about the set-up and maintenance of the Wi-Fi connection between the device and the access point. This may be useful when you are troubleshooting Wi-Fi connection issues.

USAGE:

```
xConfiguration Logging Debug Wifi: Wifi
```

where

Wifi:

Off/On

Off: Logging only basic Wi-Fi information.

On: Logging a large amount of information about the Wi-Fi connection.

Default value:

On

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:

""

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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

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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

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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 QuickJSEngine

Applies to: All products

Requires user role: ADMIN

Changes which javascript engine type to use for running macro code. It is not recommended to change this configuration.

USAGE:

`xConfiguration Macros QuickJSEngine:` *`QuickJSEngine`*

where

`QuickJSEngine`:

Off/On

On: Use QuickJS as the macro javascript engine.

Off: Use Duktape as the macro javascript engine.

Default value:

On

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

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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

xConfiguration MicrosoftTeams CVI CrossTenant

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN

Configures the Cross-Tenant Join feature for Microsoft Teams meetings. This feature allows devices using Video Integration for Microsoft Teams (VIMT) to join Teams meetings hosted by a different business or tenant directly from the device using the Microsoft Teams button. This method provides the VIMT meeting experience instead of using WebRTC Direct Guest Join.

USAGE:

```
xConfiguration MicrosoftTeams CVI CrossTenant: CrossTenant
```

where

CrossTenant:

Auto/Disabled/Enabled

Auto: Automatically enables Cross-Tenant Join based on the meeting invitation and device configuration.

Disabled: Disables the Cross-Tenant Join feature.

Enabled: Enables Cross-Tenant Join feature.

Default value:

Auto

xConfiguration MicrosoftTeams Logging Level

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN

Change the detail level of logging from Microsoft Teams Rooms and related components.

USAGE:

```
xConfiguration MicrosoftTeams Logging Level: Level
```

where

Level:

Debug/Error/Info/Verbose/Warning

Detail the level of logging, with Verbose being the highest and Error the lowest level.

Default value:

Info

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xConfiguration MicrosoftTeams Logging Mode

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN

Enable or disable logging from Microsoft Teams Rooms and related components.

USAGE:

```
xConfiguration MicrosoftTeams Logging Mode: Mode
```

where

Mode:

Off/On

Default value:

On

xConfiguration MicrosoftTeams Zoom CrossLaunch

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN

Sets to prevent Zoom CRC meetings from being launched directly via the RoomOS native app when joining Zoom calendar meetings from Microsoft Teams Room. If disabled, a Zoom WebRTC meeting will be initiated within Microsoft Teams Room instead.

USAGE:

```
xConfiguration MicrosoftTeams Zoom CrossLaunch: CrossLaunch
```

where

CrossLaunch:

Auto/Disabled

Auto: Zoom cross-launch is enabled.

Disabled: Zoom cross-launch is disabled.

Default value:

Auto

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:

""

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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] Firewall Incoming H323

Applies to: All products

Requires user role: ADMIN

Defines the allowed IP addresses (IPv4 and IPv6) for incoming H.323 calls. Multiple IP addresses should be separated by spaces. A network mask (IP range) is specified by <ip address>/N, where N is 1-32 for IPv4, and 1-128 for IPv6. The /N is a common indication of a network mask where the first N bits are set. For example, 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] Firewall Incoming H323: "H323"
```

where

H323:

String (0, 255)

IP address range(s)

Default value:

""

xConfiguration Network [n] Firewall Incoming Pairing

Applies to: All products

Requires user role: ADMIN

Defines the allowed IP addresses (IPv4 and IPv6) for remote touch panel pairing to the device. Multiple IP addresses should be separated by spaces. A network mask (IP range) is specified by <ip address>/N, where N is 1-32 for IPv4, and 1-128 for IPv6. The /N is a common indication of a network mask where the first N bits are set. For example, 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] Firewall Incoming Pairing: "Pairing"
```

where

Pairing:

String (0, 255)

IP address range(s)

Default value:

""

xConfiguration Network [n] Firewall Incoming SIP

Applies to: All products

Requires user role: ADMIN

Defines the allowed IP addresses (IPv4 and IPv6) for direct, incoming SIP calls. This configuration applies only to direct SIP calls and does not affect calls routed through Cisco Unified Communications Manager (CUCM) or other SIP proxies.

Multiple IP addresses should be separated by spaces. A network mask (IP range) is specified by <ip address>/N, where N is 1-32 for IPv4, and 1-128 for IPv6. The /N is a common indication of a network mask where the first N bits are set. For example, 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] Firewall Incoming SIP: "SIP"
```

where

SIP:

String (0, 255)

IP address range(s)

Default value:

""

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xConfiguration Network [n] FQDN

Applies to: All products

Requires user role: ADMIN

The device's Fully Qualified Domain Name (FQDN) is, by default, derived from the DNS (Domain Name System) search domain and the system unit name. This configuration permits the FQDN to be explicitly specified if needed.

USAGE:

```
xConfiguration Network [n] FQDN: "FQDN"
```

where

n: Index that identifies the network.

Range: 1..1

FQDN:

String (0, 255)

The Fully Qualified Domain Name.

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

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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:

""

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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

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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:

DHCP/Static

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:

""

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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:

""

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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:

Autoconf/DHCPv6/Static

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:

""

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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

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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:

Diffserv/Off

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

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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

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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

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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:

""

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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:

10full/10half/100full/100half/1000full/Auto

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] TrafficControl Mode

Applies to: All products

Requires user role: ADMIN

Define the network traffic control mode to decide how to control the video packets transmission speed.

USAGE:

```
xConfiguration Network [n] TrafficControl Mode: Mode
```

where

n: Index that identifies the network.

Range: 1..1

Mode:

Off/On

Off: Transmit video packets at link speed.

On: Transmit video packets at maximum 20 Mbps. Can be used to smooth out bursts in the outgoing network traffic.

Default value:

On

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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. For Auto mode to operate properly, either NetworkServices CDP Mode or NetworkServices LLDP Mode must be enabled. Additionally, VLAN values received via CDP take precedence over those received via LLDP.

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) or Link Layer Discovery Protocol (LLDP), if available, assigns an id to the voice VLAN. If CDP or LLDP is not available, VLAN is not enabled.

Manual: The VLAN ID is set manually using the Network VLAN Voice VlanId setting. If CDP or LLDP is available, the manually set value will be overruled by the value assigned by CDP or LLDP.

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

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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 both CDP and NetworkServices LLDP Mode 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 CommonProxy

Applies to: All products

Requires user role: ADMIN

A new proxy support module is being phased in gradually in RoomOS. Use this setting to enable or disable the new module. When enabled all outgoing HTTP/S traffic from RoomOS goes through the new support module.

This setting will be removed once the switchover to the new module is complete.

The main visible effect of enabling it in the current software release is that the web engine on locally paired Room Navigators will gain access to the internet (using HTTP proxies as configured on the device). It is also a requirement for the NetworkServices HTTP Proxy Authentication Method setting to take effect.

USAGE:

```
xConfiguration NetworkServices CommonProxy: CommonProxy
```

where

CommonProxy:

Disabled/Enabled

Default value:

Disabled

xConfiguration NetworkServices DiscoveryProtocol SystemName

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN

Selects the source for the System Name TLV (Type Length Value) included in outgoing CDP (Cisco Discovery Protocol) and LLDP (Link Layer Discovery Protocol) packets.

The system name is derived either from the device's MAC (Media Access Control) address (SEPMAC) or its Fully Qualified Domain Name (FQDN).

USAGE:

```
xConfiguration NetworkServices DiscoveryProtocol SystemName: SystemName
```

where

SystemName:

Auto/FQDN/SEPMAC

Auto: When both CDP and LLDP are enabled, the system defaults to using SEPMAC (the device's MAC address) as the identifier. If only LLDP mode is enabled, the system uses the fully qualified domain name (FQDN) by default. If the FQDN is unavailable, SEPMAC serves as the fallback identifier.

FQDN: Use FQDN in outgoing System Name TLV for both CDP and LLDP.

SEPMAC: Use SEPMAC in outgoing System Name TLV for both CDP and LLDP.

Default value:

Auto

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

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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:

HTTP+HTTPS/HTTPS/Off

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 Authentication Method

Applies to: All products

Requires user role: ADMIN

When the device is configured to use an HTTP proxy with authentication, setting this to Basic makes the device send the outgoing proxy-authentication header in the initial HTTP CONNECT, saving an HTTP authentication challenge/response round trip for each new connection.

The NetworkServices CommonProxy setting must be set to Enabled for this setting to take effect.

USAGE:

```
xConfiguration NetworkServices HTTP Proxy Authentication Method: Method
```

where

Method:

Auto/Basic

Auto: The device will choose authentication scheme automatically, as described in the NetworkServices HTTP Proxy LoginName setting.

Basic: Only the Basic HTTP authentication scheme will be used. The outgoing proxy-authentication header will be sent without a separate authentication challenge from the proxy.

Default value:

Auto

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:

""

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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 NetworkSerives 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:

""

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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 OCSP Mode

Applies to: All products

Requires user role: ADMIN

When a client certificate is used as login credentials to the web user interface and xConfiguration NetworkServices HTTPS VerifyClientCertificate is enabled, an Online Certificate Status Protocol (OCSP) responder service can be used to verify the client certificate's revocation status.

If Mode is set to On, the web UI examines the client certificate for an OCSP URL and contacts the host to check the client's certificate validity status.

USAGE:

```
xConfiguration NetworkServices HTTPS OCSP Mode: Mode
```

where

Mode:

Off/On

Off/On: Disable/enable OSCP client certificate verification.

Default value:

Off

xConfiguration NetworkServices HTTPS OCSP URL

Applies to: All products

Requires user role: ADMIN

Specify the URL of the OCSP server that will be used to check the client's certificate validity status.

USAGE:

```
xConfiguration NetworkServices HTTPS OCSP URL: "URL"
```

where

URL:

String (0, 255)

A valid URL.

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:

TLSv1.2

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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 LLDP Mode

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN

Enable or disable the LLDP (Link Layer Discovery Protocol) daemon. Note: When both LLDP and NetworkServices CDP Mode are enabled, network settings received via CDP take precedence over those received via LLDP.

USAGE:

```
xConfiguration NetworkServices LLDP Mode: Mode
```

where

Mode:

Off/On/Passive

Off: The LLDP daemon is disabled.

On: The LLDP daemon reports device statistics and identifiers to an LLDP-enabled switch. It also configures VLAN settings in coordination with Network VLAN Voice Mode, provided that CDP Mode is disabled.

Passive: The LLDP daemon will neither report device statistics nor device identifiers, nor will it configure VLAN settings. It only collects information received through LLDP.

Default value:

On

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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:

""

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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 PTP Priority

Applies to: RoomBarPro RoomKitEQX CodecEQ BoardProG2

Requires user role: ADMIN

Determines the codec PTP priority on the codec internal network. The device with the highest PTP priority will be elected as timeLeader. Lower value means higher priority.

USAGE:

```
xConfiguration NetworkServices PTP Priority: Priority
```

where

Priority:

Integer (0..255)

Adjust this value on the codec you want to make timeLeader in relation to the rest of the devices on the codec internal network.

Default value:

255

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 RoomKitEQX 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

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xConfiguration NetworkServices SMTP Server

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX 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 RoomKitEQX 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 RoomKitEQX 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 RoomKitEQX 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:

""

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xConfiguration NetworkServices SMTP From

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ 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 RoomKitEQX 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:

""

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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 SysNameSource

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Specifies the origin of the value returned by SNMP SysName MIB OID requests.

USAGE:

```
xConfiguration NetworkServices SNMP SysNameSource: SysNameSource
```

where

SysNameSource:

Auto/FQDN/SystemUnitName

Default value:

Auto

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:

""

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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

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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 UPnP Timeout

Applies to: All products

Requires user role: ADMIN

Define for how many seconds UPnP shall stay enabled after the device is switched on or restarted. The NetworkServices UPnP Mode setting must be On for this setting to take any effect.

USAGE:

```
xConfiguration NetworkServices UPnP Timeout: Timeout
```

where

Timeout:

Integer (0..3600)

Range: Select a value between 0 and 3600 seconds.

Default value:

600

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

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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/6Ghz/Auto *[RoomBarPro RoomKitEQX CodecEQ BoardProG2]*

2_4Ghz/5Ghz/Auto *[RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/ Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro]*

2_4Ghz: Use the 2.4 GHz band.

5Ghz: Use the 5 GHz band.

6Hz: Use the 6 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 decission made by the access point.

Default value:

Auto

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xConfiguration NetworkServices Wifi Enabled

Applies to: All products

Requires user role: ADMIN, USER

Provided that the device is allowed to connect to the network via Wi-Fi (see the NetworkServices WIFI Allowed setting), you can use this setting to enable and disable Wi-Fi.

You cannot use Ethernet and Wi-Fi at the same time. If you try to configure Wi-Fi while an Ethernet cable is connected, you must unplug the Ethernet cable to proceed. If you connect an Ethernet cable while connected to Wi-Fi, Ethernet will take precedence. If you unplug the Ethernet cable, the device will automatically connect to the last connected Wi-Fi network, if available.

USAGE:

```
xConfiguration NetworkServices Wifi Enabled: Enabled
```

where

Enabled:

False/True

False: Wi-Fi is disabled.

True: Wi-Fi is enabled.

Default value:

True

xConfiguration NetworkServices XMLAPI Mode

Applies to: All products

Requires user role: ADMIN

Enable or disable the device's XML API. For security reasons this may be disabled. Disabling the XML API will limit the remote manageability with for example TMS, which no longer will be able to connect to the device.

USAGE:

```
xConfiguration NetworkServices XMLAPI Mode: Mode
```

where

Mode:

Off/On

Off: The XML API is disabled.

On: The XML API is enabled.

Default value:

On

Peripherals configuration

xConfiguration Peripherals ActivePen Enabled

Applies to: BoardPro BoardProG2

Requires user role: ADMIN

Enable or disable the use of active pens.

USAGE:

```
xConfiguration Peripherals ActivePen Enabled: Enabled
```

where

Enabled:

False/True

True: Active pens are enabled.

False: Active pens are not enabled and using the pen will have no effect.

Default value:

True

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

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xConfiguration Peripherals Pairing CiscoTouchPanels EmcResilience

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro BoardProG2

Requires user role: ADMIN

If the Touch 10 touch controller is used in environments with considerable amounts of electromagnetic noise present, you may experience an appearance of false signals—for example as if someone tapped the touch controller when nobody did so. To prevent this you may enable the EMC Resilience Mode. This applies only to Touch 10, not to Room Navigator.

USAGE:

```
xConfiguration Peripherals Pairing CiscoTouchPanels EmcResilience:
EmcResilience
```

where

EmcResilience:

Off/On

Off: The EMC resilience is disabled.

On: The EMC resilience is enabled.

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

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xConfiguration Peripherals Profile Cameras

Applies to: All products

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:

0 *[DeskPro DeskMini Desk Board]*

0/1/2/3/4/5/6/7/Minimum1/NotSet *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

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 Cameras

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Define the number of external cameras that are expected to be connected to the 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:

0 *[DeskPro DeskMini Desk Board]*

0/1/2/3/4/5/6/7/Minimum1/NotSet *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

0: The number of cameras that are expected to be connected to the device.

Default value:

0

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

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xConfiguration Peripherals Profile Microphones Analog

Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Define the number of analog microphones that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected analog microphones does not match this setting, the diagnostics service will report it as an inconsistency.

USAGE:

```
xConfiguration Peripherals Profile Microphones Analog: Analog
```

where

Analog:

0/1/2/3/Minimum1/NotSet *[RoomBarPro RoomKitEQX CodecEQ CodecPlus]*

0/1/2/Minimum1/NotSet *[RoomKit BoardPro BoardProG2]*

0/1/NotSet *[RoomBar]*

Default value:

NotSet

xConfiguration Peripherals Profile Microphones Ethernet

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

Requires user role: ADMIN, INTEGRATOR

Define the number of ethernet microphones that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected ethernet microphones does not match this setting, the diagnostics service will report it as an inconsistency.

USAGE:

```
xConfiguration Peripherals Profile Microphones Ethernet: Ethernet
```

where

Ethernet:

0/1/2/3/4/5/6/7/8/Minimum1/NotSet *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

0/1/2/3/4/5/6/Minimum1/NotSet *[RoomPanorama/Room70Panorama]*

0/1/NotSet *[RoomBar]*

Default value:

NotSet

xConfiguration Peripherals Profile Microphones USBMicrophone

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Define the number of USB microphones that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected USB microphones does not match this setting, the diagnostics service will report it as an inconsistency.

USAGE:

```
xConfiguration Peripherals Profile Microphones USBMicrophone: USBMicrophone
```

where

USBMicrophone:

0/1/NotSet

NotSet: No USB microphone check is performed.

0-1: Select the number of USB microphones that are expected to be connected to the device.

Default value:

NotSet

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xConfiguration Peripherals Profile Microphones USBInterface

Applies to: RoomKitEQX CodecEQ CodecPlus CodecPro Room70G2 RoomPanorama/ Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Define the number of USB interfaces that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected USB interfaces does not match this setting, the diagnostics service will report it as an inconsistency.

USAGE:

```
xConfiguration Peripherals Profile Microphones USBInterface: USBInterface
```

where

USBInterface:

0/1/NotSet

NotSet: No USB interface check is performed.

0-1: Select the number of USB interfaces that are expected to be connected to the device.

Default value:

NotSet

xConfiguration Peripherals Profile NetworkSwitches

Applies to: RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

Define the number of network switches that are expected to be connected to the device. This information is used by the device's diagnostics service. If the number of connected network switches does not match this setting, the diagnostics service will report it as an inconsistency.

USAGE:

```
xConfiguration Peripherals Profile NetworkSwitches: NetworkSwitches
```

where

NetworkSwitches:

1/2/Minimum1/NotSet

NotSet: No network switch is connected.

Minimum1: At least one network switch should be connected to the device.

1-2: Specify the number of network switches that are expected to be connected to the device.

Default value:

Room Panorama: 2; Room 70 Panorama: 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:

0 *[DeskPro DeskMini Desk]*

0/1/2/3/4/5/Auto/Minimum1/NotSet *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

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]*

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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:

""

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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 the CA list on the device, 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 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

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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:

CUCM/Off/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:

Auto/External/Internal

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

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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:

HTTP/HTTPS

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:

""

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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:

Auto/CUCM/Edge/Off/TMS/VCS/Webex

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

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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 RoomType CameraLayout

Applies to: All products

Requires user role: ADMIN, USER

Layout for composed camera stream in non-standard room types

USAGE:

```
xConfiguration Provisioning RoomType CameraLayout: CameraLayout
```

where

CameraLayout:

Equal/PIP/Prominent

Default value:

PIP

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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, 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

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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]*

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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:

Disabled/Enabled

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:

Disabled/Enabled

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

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RemoteAccess configuration

xConfiguration RemoteAccess Mode

Applies to: All products

Requires user role: ADMIN

Allows remote access from Control Hub and Web UI to the device.

USAGE:

```
xConfiguration RemoteAccess Mode: Mode
```

where

Mode:

Off/On

Off: disables remote access on individual devices.

On: enables remote access on individual devices.

Default value:

Off

xConfiguration RemoteAccess ShowTapIndicator

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Configures to show mouse taps on the screen in Remote access mode.

USAGE:

```
xConfiguration RemoteAccess ShowTapIndicator: ShowTapIndicator
```

where

ShowTapIndicator:

False/True

True: shows mouse taps on the screen in remote access mode.

False: Does not show mouse taps on the screen in remote access mode.

Default value:

True

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

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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

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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

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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 RoomAnlytics 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 RoomAnlytics 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

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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

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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

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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 OverlayOpacity

Applies to: All products

Requires user role: ADMIN

Allows you to configure the opacity of the top panels of the Room Navigator, which can show or hide more of the background.

USAGE:

```
xConfiguration UserInterface RoomScheduler OverlayOpacity: OverlayOpacity
```

where

OverlayOpacity:

Integer (0..100)

Set up a number between 0 and 100 to configure the opacity.

Default value:

50

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

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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

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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

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xConfiguration Security CSR KeySize

Applies to: All products

Requires user role: ADMIN

This configuration allows you to specify the key size for the Certificate Signing Request (CSR).

USAGE:

```
xConfiguration Security CSR KeySize: KeySize
```

where

KeySize:

2048/3072/4096

Key size of the CSR

Default value:

2048

xConfiguration Security Enrollment KeySize

Applies to: All products

Requires user role: ADMIN

Defines the Certificate KeySize of the CSR generated by xCommand Security Certificates Services Enrollment SCEP Request.

USAGE:

```
xConfiguration Security Enrollment KeySize: KeySize
```

where

KeySize:

2048/3072/4096

The key length in bit.

Default value:

2048

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

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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

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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: FollowHTTPService). 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 ulstrasound 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

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SerialPort configuration

xConfiguration SerialPort Mode

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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

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xConfiguration SerialPort LoginRequired

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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

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xConfiguration SerialPort Outbound Port [n] 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 [n] BaudRate: BaudRate
```

where

BaudRate:

9600/19200/38400/57600/115200

Choose a baud rate form the list (bits per second).

Default value:

115200

xConfiguration SerialPort Outbound Port [n] 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 [n] 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 [n] 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 [n] 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

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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. If the transport protocol is set to UDP, the SIP ListenPort must be enabled (set to On).

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

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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/Relay/Rflx

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 Line

Applies to: All products

Requires user role: ADMIN

When registered to a Cisco Unified Communications Manager (CUCM) the device may be part of a shared line. This means that several devices share the same directory number. The different devices sharing the same number receive status from the other appearances on the line as defined in RFC 4235.

Note that shared lines are set up by CUCM, not by the device. Therefore do not change this setting manually; CUCM pushes this information to the device when required.

USAGE:

`xConfiguration SIP Line: Line`

where

Line:

Private/Shared

Shared: The device is part of a shared line and is therefore sharing its directory number with other devices.

Private: This device is not part of a shared line.

Default value:

Private

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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 Mailbox

Applies to: All products

Requires user role: ADMIN

When registered to a Cisco Unified Communications Manager (CUCM) you may be offered the option of having a private voice mailbox.

USAGE:

`xConfiguration SIP Mailbox: "Mailbox"`

where

Mailbox:

String (0, 255)

A valid number or address. Leave the string empty if you do not have a voice mailbox.

Default value:

""

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:

TLSv1.2

xConfiguration SIP PreferredIPSignaling

Applies to: All products

Requires user role: ADMIN

Define the preferred IP version for signaling (audio, video, data). Only applicable when both Network IPStack and Conference CallProtocolIPStack are set to Dual, and the network does not have a mechanism for choosing the preferred IP version. It also determines the priority of the A/AAAA lookups in DNS, so that the preferred IP version is used for registration.

USAGE:

`xConfiguration SIP PreferredIPSignaling: PreferredIPSignaling`

where

PreferredIPSignaling:

IPv4/IPv6

IPv4: The preferred IP version for signaling is IPv4.

IPv6: The preferred IP version for signaling is IPv6.

Default value:

IPv4

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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

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xConfiguration SIP TransportSecurity CertificateVerificationMode

Applies to: All products

Requires user role: ADMIN

This configuration determines the method used to validate X.509 Certificates from remote SIP servers when connecting over TLS without a proxy.

It is assumed that the following configurations are set to:

SIP DefaultTransport: Tls

SIP TlsVerify: On

SIP ListenPort: Off

Provisioning WebexCalling Mode: Off

SIP Proxy N Address: ""

SIP Type: Standard

The validation process affects outgoing calls from the device. Any incoming call will be automatically rejected. Relevant Root CA Certificates need to be uploaded to the device. See the following command to upload CA certificates:

xCommand Security Certificates CA Add

It is recommended to reboot the device if this xConfiguration is changed.

As a security measure, it is also recommended to set

xConfiguration Conference Encryption Mode: On

to make sure that media gets encrypted.

USAGE:

```
xConfiguration SIP TransportSecurity CertificateVerificationMode:
CertificateVerificationMode
```

where

CertificateVerificationMode:

Auto/Legacy/RFC5922

Auto: When set to Auto, the device uses either the Legacy or RFC5922 method of certificate verification. A given software version will always use only one of the methods. The method used may change between different software versions.

Legacy: When set to Legacy, the device uses the old verification method. It compares a list of names, including DNS SRV records with those in the received certificate, without applying RFC5922 standards.

RFC5922: When set to RFC5922, the device compares the hostname of the dialed URI (e.g., webex.com or zoomcrc.com) with the Subject Alternative Names (SANs) or Common Name (CN) in the X.509 Certificate, following the rules in RFC5922. RFC5922 provides guidelines for how to extract the identity of a SIP domain from a received certificate and how to use that identity for SIP domain authentication.

Default value:

Auto

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:

""

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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 Type

Applies to: All products

Requires user role: ADMIN

Enables SIP extensions and special behavior for a vendor or provider.

USAGE:

`xConfiguration SIP Type: Type`

where

Type:

Cisco/Standard

Standard: Use this when registering to standard SIP Proxy (tested with Cisco TelePresence VCS).

Cisco: Use this when registering to Cisco Unified Communication Manager.

Default value:

Standard

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:

""

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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:

DefaultCameraPosition/None/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]*

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xConfiguration Standby Halfwake Screensaver

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

This setting only applies to devices that are set up with Microsoft Teams Rooms.

Choose what to display on screen when the device is in halfwake mode.

USAGE:

```
xConfiguration Standby Halfwake Screensaver: Screensaver
```

where

Screensaver:

Clock/Halfwake

Clock: Show the clock.

Halfwake: Show the default halfwake image.

Default value:

Halfwake

xConfiguration Standby Level DeepSleep Delay

Applies to: BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Specify how long the device must remain in the previous standby state before transitioning to deep sleep.

By default, the previous standby state will be networked standby. If networked standby is disabled, the device will default to a display-off state.

USAGE:

```
xConfiguration Standby Level DeepSleep Delay: Delay
```

where

Delay:

Integer (1..1440)

The delay for transitioning to the deep sleep standby level, specified in minutes.

Default value:

14

xConfiguration Standby Level DeepSleep Mode

Applies to: BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Configures the deep sleep standby mode.

Deep sleep is an ultra-low power mode where the device shuts down most functionalities and disconnects from the network to conserve energy. When enabled, the device transitions to deep sleep after remaining in networked standby for a specified duration, as defined by the Standby Level DeepSleep Delay setting.

If networked standby is disabled, the delay timer begins when the device enters the display-off state.

The device will not enter deep sleep mode if motion is detected, provided the Standby WakeupOnMotionDetection feature is enabled, which is the default setting.

Additionally, the device will wake up once every night to check for software updates. If office hours are enabled, the device will also wake up at a randomized time between 20 to 40 minutes before the configured office hours start time.

USAGE:

```
xConfiguration Standby Level DeepSleep Mode: Mode
```

where

Mode:

Off/On/OutsideOfficeHours

Off: The device will not transition to deep sleep automatically.

OutsideOfficeHours: When office hours end the device will transition deep sleep after the configured delay.

If the device has already been idle for the required duration, it will transition to deep sleep immediately.

You can specify office hours using xConfiguration Time OfficeHours.

On: The device will transition to deep sleep after the configured delay, similar to other standby levels, regardless of the office hours setting.

Default value:

Off

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xConfiguration Standby Level Networked Delay

Applies to: RoomBar RoomBarPro 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 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 configuredto 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

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xConfiguration Standby Signage InteractionMode

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX 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:

""

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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

Defines the camera position when leaving standby mode.

USAGE:

`xConfiguration Standby WakeupAction: WakeupAction`

where

WakeupAction:

DefaultCameraPosition/None/RestoreCameraPosition

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

Chooses whether the device wakes 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 WakeupOnPairing

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Chooses whether the device wakes up automatically when being paired to the Webex app.

USAGE:

`xConfiguration Standby WakeupOnPairing: WakeupOnPairing`

where

WakeupOnPairing:

Off/On

On: The device wakes up when paired to the Webex app.

Off: The device remains on standby, even if paired to the Webex app.

Default value:

On

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xConfiguration Standby WakeupOnMotionDetection

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

When Wake Up on Motion Detection is enabled, the device automatically wakes up and enters halfwake mode when it detects people entering the room.

This feature allows the device to detect when people enter the room. When motion is detected, the system will go from Standby to Halfwake, unless a meeting is scheduled at the time of motion detection. In that case, the system will go from Standby to Awake. This feature primarily uses ultrasound for detection, and for specific products like the Board Pro and Board Pro G2, it also uses radar when in 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 goes from standby to halfwake when it detects motion, for example when people enter the room. If a meeting is scheduled when motion is detected the system will move to fully awake.

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:

""

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xConfiguration SystemUnit CrashReporting Advanced

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 Advanced: Advanced
```

where

Advanced:

Off/On

Off: The ACR tool will perform standard log analyses.

On: The ACR tool will perform advanced log analyses.

Default value:

On

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:

""

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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 [n] 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 [n] 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

xConfiguration SystemUnit SoftwareUpgrade TruncateCop

Applies to: All products

Requires user role: ADMIN

The method for upgrading using .cop files has been modified. This configuration option allows you to revert to the previous upgrade behavior if you encounter any issues. Please note that this option is expected to be removed in a future release.

USAGE:

```
xConfiguration SystemUnit SoftwareUpgrade TruncateCop: TruncateCop
```

where

TruncateCop:

False/True

Default value:

True

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xConfiguration SystemUnit SoftwareUpgrade WebCache Mode

Applies to: All products

Requires user role: ADMIN

Usually, the device downloads software directly from the Webex cloud. You can choose to set up a web cache (HTTP cache) to optimize transport.

This setting applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

USAGE:

```
xConfiguration SystemUnit SoftwareUpgrade WebCache Mode: Mode
```

where

Mode:

Manual/Off

Manual: The device downloads software upgrades through a web cache (HTTP cache). The URL for the web cache is specified in the SystemUnit SoftwareUpgrade WebCache URL setting. If the cache is not working, the device will fall back to using its standard network connection.

Off: The device downloads software directly from the Webex cloud, without using a web cache.

Default value:

Off

xConfiguration SystemUnit SoftwareUpgrade WebCache Url

Applies to: All products

Requires user role: ADMIN

Set the URL for the web cache that can be used for software downloads from the Webex cloud. It is only used if SystemUnit SoftwareUpgrade WebCache Mode is set to Manual.

This setting applies to devices that are registered to the Webex cloud service or linked to Webex Edge for devices.

USAGE:

```
xConfiguration SystemUnit SoftwareUpgrade WebCache Url: "Url"
```

where

Url:

String (0, 255)

The URL for the web cache.

Default value:

""

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:

""

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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_YY/YY_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:

12H/24H

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/Coyhaique/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/

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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_Barthelemy/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/Fakaofo/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

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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"

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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

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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

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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 Accessibility ScreenReader Default Mode

Applies to: All products

Requires user role: ADMIN

Configures the screen reader mode when the device goes to standby/halfwake.

USAGE:

```
xConfiguration UserInterface Accessibility ScreenReader Default Mode: Mode
```

where

Mode:

Current/Off/On

Current: When set to current, nothing happens when the devices goes to halfwake/standby.

Off: Turns the screen reader off when the devices goes to standby/halfwake.

On: Turns the screen reader on when the devices goes to standby/halfwake.

Default value:

Off

xConfiguration UserInterface Accessibility ScreenReader Gesture

Applies to: All products

Requires user role: ADMIN

Allows you to enable or disable the "toggle screen reader" gesture on a touch screen device.

USAGE:

```
xConfiguration UserInterface Accessibility ScreenReader Gesture: Gesture
```

where

Gesture:

Off/On

On: Enables the gesture to toggle the screen reader. When activated, the "swipe down with three fingers" gesture will immediately enable the screen reader, announcing "Screen reader enabled" audibly.

Off: Disables the gesture, preventing it from toggling the screen reader.

Default value:

On

xConfiguration UserInterface Accessibility ScreenReader Speed

Applies to: All products

Requires user role: ADMIN

This configuration controls the speed of the voice you hear when screen reader is activated. The default setting is 100. Increasing the value results in a faster voice speed, while decreasing it slows down the voice.

USAGE:

```
xConfiguration UserInterface Accessibility ScreenReader Speed: Speed
```

where

Speed:

Integer (1..300)

Speed of the voice output.

Default value:

100

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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 AdhocBooking TimeSlotSize

Applies to: All products

Requires user role: ADMIN

Allows the configuration of the time slot size for scheduling bookings. The time slot size determines the predetermined intervals –15, 30, or 60 minutes– at which users can select the start or end time of a booking.

USAGE:

```
xConfiguration UserInterface Bookings AdhocBooking TimeSlotSize: TimeSlotSize
```

where

TimeSlotSize:

15/30/60

Specifies the predetermined time intervals (in minutes) for selecting the start or end time of a booking.

Default value:

30

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xConfiguration UserInterface Bookings AdhocBooking UseDefaultTitle

Applies to: All products

Requires user role: ADMIN

Sets a default meeting title when scheduling an ad hoc meeting. The default meeting title is "Ad hoc meeting".

USAGE:

```
xConfiguration UserInterface Bookings AdhocBooking UseDefaultTitle:
UseDefaultTitle
```

where

UseDefaultTitle:

False/True

True: Use the default title.

False: Does not use the default title.

Default value:

False

xConfiguration UserInterface Bookings Visibility AllDayMeetings

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Show or hide meetings set to "all day" length.

USAGE:

```
xConfiguration UserInterface Bookings Visibility AllDayMeetings:
AllDayMeetings
```

where

AllDayMeetings:

Auto/Hidden

Auto: Shows meetings set to all day.

Hidden: Does not show meetings set to all day.

Default value:

Auto

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 NonJoinableMeetings

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Show or hide meetings or other events without the meeting join information in a workspace.

USAGE:

```
xConfiguration UserInterface Bookings Visibility NonJoinableMeetings:
NonJoinableMeetings
```

where

NonJoinableMeetings:

Auto/Hidden

Auto: Shows meetings or events that are non joinable.

Hidden: Hides meetings or events that are non joinable.

Default value:

Auto

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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 Personal FullDayCalendar

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Show or hide meetings for the full day on a personal mode device, as opposed to current active meetings only.

USAGE:

```
xConfiguration UserInterface Bookings Visibility Personal FullDayCalendar: FullDayCalendar
```

where

FullDayCalendar:

Off/On

On: Shows the full day calendar on a personal mode device.

Off: Shows only the current active meetings.

Default value:

On

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xConfiguration UserInterface Bookings Visibility Personal NonJoinableMeetings

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Show or hide meetings or other events without the meeting join information on personal mode devices.

USAGE:

```
xConfiguration UserInterface Bookings Visibility Personal NonJoinableMeetings: NonJoinableMeetings
```

where

NonJoinableMeetings:

Auto/Hidden

Auto: Shows non joinable meetings.

Hidden: Hides non joinable meetings.

Default value:

Hidden

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

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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, 512)

Add a custom message. Add an empty string to remove a custom message.

Default value:

""

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xConfiguration UserInterface DecemberThemeBeta

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Enables the winter/seasonal theme during the month of December only.

USAGE:

```
xConfiguration UserInterface DecemberThemeBeta: DecemberThemeBeta
```

where

DecemberThemeBeta:

Off/On

On: Enables the theme.

Off: Disables the theme.

Default value:

Off

xConfiguration UserInterface DevicePersonalization QRCodeNotification

Applies to: All products

Requires user role: ADMIN

This is a notification that appears in the top right corner of devices set up with hot desking. It allows users to sign into the device via QR code.

USAGE:

```
xConfiguration UserInterface DevicePersonalization QRCodeNotification:
QRCodeNotification
```

where

QRCodeNotification:

Off/On

Off: the notification is off.

On: the notification is on.

Default value:

On

xConfiguration UserInterface Features Share MTRAutoSelectSource

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

Allows users to turn off the auto source selection for Microsoft Teams Rooms (MTR) calls.

USAGE:

```
xConfiguration UserInterface Features Share MTRAutoSelectSource:
MTRAutoSelectSource
```

where

MTRAutoSelectSource:

Off/On

On: Turn on the auto source selection for Microsoft Teams Rooms (MTR) calls.

Off: Turn off the auto source selection for Microsoft Teams Rooms (MTR) calls.

Default value:

On

xConfiguration UserInterface InstantMeeting Invite

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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

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xConfiguration UserInterface WallpaperFillMode

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Decide what to do with the wallpaper if the screen and wallpaper doesn't have the same aspect ratio.

USAGE:

```
xConfiguration UserInterface WallpaperFillMode: WallpaperFillMode
```

where

WallpaperFillMode:

Crop/Fit/Stretch

Crop: Scales up the wallpaper so that it fills the entire screen. The wallpaper aspect ratio is kept unchanged, so the top/bottom or left/right side of the image will be cut off as needed.

Fit: Scales the wallpaper up or down so that the complete image fits on the screen. The wallpaper aspect ratio is kept unchanged, and black bars are added to the top/bottom (letterboxing) or the sides (pillarboxing) to fill the screen.

Stretch: Stretch the wallpaper until it fills the entire screen. Changes the wallpaper aspect ratio if needed.

Default value:

Crop

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, TOUCHUSER

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

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xConfiguration UserInterface Features Call AudioMute

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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

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xConfiguration UserInterface Features Call JoinGoogleMeet

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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

Configures whether to display or hide the CVI (Microsoft Cloud Video Interop) functionality on the Microsoft Teams button in the user interface.

When enabled, users can use the Microsoft Teams button to join Teams meetings via CVI by entering the Video Conference ID and passcode from the meeting invite. If disabled, the Microsoft Teams button still appears, but the CVI-specific input screen for Video ID is hidden.

This feature is available only on devices registered to the Webex cloud service or connected through Webex Edge for Devices.

USAGE:

```
xConfiguration UserInterface Features Call JoinMicrosoftTeamsCVI:
JoinMicrosoftTeamsCVI
```

where

JoinMicrosoftTeamsCVI:

Auto/Hidden

Auto: Shows the CVI functionality on the Microsoft Teams button where users can enter the Video ID.

Hidden: Doesn't show the CVI functionality on the Microsoft Teams button.

Default value:

Hidden

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xConfiguration UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

Configures whether to display or hide the Direct Guest Join functionality on the Microsoft Teams button in the user interface.

When enabled, users can use the Microsoft Teams button to join Teams meetings via Direct Guest Join by entering the Meeting ID from the invite. If disabled, the Microsoft Teams button still appears, but the input screen for entering the Meeting ID is hidden.

This feature is available only on devices registered to the Webex cloud service or connected through Webex Edge for Devices.

USAGE:

```
xConfiguration UserInterface Features Call JoinMicrosoftTeamsDirectGuestJoin: JoinMicrosoftTeamsDirectGuestJoin
```

where

JoinMicrosoftTeamsDirectGuestJoin:

Auto/Hidden

Auto: Displays the Direct Guest Join functionality where users can enter the Meeting ID.

Hides the Direct Guest Join functionality on the Microsoft Teams button, preventing users from entering the Meeting ID.

Default value:

Auto

xConfiguration UserInterface Features Call JoinZoom

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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

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xConfiguration UserInterface Features Call Keypad

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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

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xConfiguration UserInterface Features Call ParticipantList

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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

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xConfiguration UserInterface Features Call Webcam

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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 RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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 MTRShareExperience

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

This configuration allows toggling between Microsoft Teams Rooms (MTR) and RoomOS share experiences on devices in MTR mode.

USAGE:

```
xConfiguration UserInterface Features Share MTRShareExperience:
MTRShareExperience
```

where

MTRShareExperience:

Microsoft/RoomOS

Microsoft: The sharing experience is fully managed by the MTR application. Previews are initiated and displayed within the Microsoft Teams Rooms app, following its standard behavior and interface.

RoomOS: The sharing experience is managed by Webex RoomOS. Previews are initiated by Webex and overlaid on the screen. RoomOS provides enhanced functionality, including support for multi-source sharing, multi-screen configurations, and 4K resolution.

Default value:

RoomOS

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xConfiguration UserInterface Features Share Start

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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 RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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:

Off/On *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

On *[DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Off: Remove home screen elements.

On: Keep all home screen elements.

Default value:

On

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xConfiguration UserInterface HomeScreen Peripherals WebApp AllowInsecureHttps

Applies to: All products

Requires user role: ADMIN

Only when the AllowInsecureHttps setting is enabled (set to True) in this configuration, and the host has been explicitly added to the allow-list using the WebEngine AllowInsecureHttps Add command, will the web page presenting a self-signed certificate be displayed.

USAGE:

```
xConfiguration UserInterface HomeScreen Peripherals WebApp
AllowInsecureHttps: AllowInsecureHttps
```

where

AllowInsecureHttps:

False/True

Default value:

False

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

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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 LedControl OutsideOfficeHours

Applies to: All products

Requires user role: ADMIN

Controls the behavior of the LED strip during non-office hours when the display enters standby mode. By default, the LED strip remains active to indicate room occupancy, even when the display is turned off.

USAGE:

```
xConfiguration UserInterface LedControl OutsideOfficeHours: OutsideOfficeHours
```

where

OutsideOfficeHours:

Off/On

Off: The LED strip is disabled when the display enters standby mode during non-office hours.

On: The LED strip remains active to indicate occupancy, even when the display is off.

Default value:

On

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xConfiguration UserInterface LiveAnnotation AvailabilityForPresenter

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Allows presenters to annotate on the screen share in a meeting 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.

USAGE:

```
xConfiguration UserInterface LiveAnnotation AvailabilityForPresenter: AvailabilityForPresenter
```

where

AvailabilityForPresenter:

Always/MultiPlayerSupportedByCall

Always: Live annotation is always available for presenters.

MultiPlayerSupportedByCall: Live Annotation is enabled only in calls that support multi-participant (or two-way) annotation, allowing presenters to annotate on shared content collaboratively—whether on their own share or others' shared content. This does not apply to one-on-one calls.

Default value:

Always

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:

True

xConfiguration UserInterface LiveAnnotation EnabledOutOfCall

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Use this setting to determine whether you are allowed to annotate live on the content outside of a call. 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.

USAGE:

```
xConfiguration UserInterface LiveAnnotation EnabledOutOfCall: EnabledOutOfCall
```

where

EnabledOutOfCall:

False/True

False: You cannot make live annotation outside a call.

True: You can make live annotation during a call.

Default value:

True

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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:

AlwaysOff/AlwaysOn/Auto

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

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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]*

1/2/3/Auto *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama]*

1/2/Auto *[RoomKit RoomBar CodecPlus Room70/Room55D]*

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]*

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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.

ShowCelcius: Show the temperature in degrees Celsius

ShowFahrenheit: Show the temperature in degrees Fahrenheit.

Default value:

Auto

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xConfiguration UserInterface RoomScheduler DevicePersonalization QRCodePairing

Applies to: All products

Requires user role: ADMIN

Enables the room booking navigator to display a QR code that can be used to sign in from outside the room when hot desking is enabled on a device paired inside the room. This feature facilitates easier user sign-ins for hot desking scenarios.

USAGE:

```
xConfiguration UserInterface RoomScheduler DevicePersonalization
QRCodePairing: QRCodePairing
```

where

QRCodePairing:

Off/On

Off: Disables the QR code display on the room booking navigator.

On: Enables the QR code display on the room booking navigator, allowing users to sign in from outside the room.

Default value:

On

xConfiguration UserInterface RoomScheduler Mode

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). Configures the mode of operation for a Room Navigator, determining how the device displays and manages room scheduling information.

USAGE:

```
xConfiguration UserInterface RoomScheduler Mode: Mode
```

where

Mode:

Auto/CalendarOnly/RoomInUseOnly

Auto: Shows both calendar events and room usage status as needed.

CalendarOnly: Displays only calendar-based scheduling information, without integrating room usage status.

RoomInUseOnly: Displays only the room usage status, without showing calendar events.

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 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

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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

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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:

ArcticNight/Auto/CarbonBlack/ChiliPlum/CrystalMist/EveningFjord/FirstLight/FoggyMoor/Light/MeadowStone/Night/PebbleShoal/PoppyBreeze/SandShoal/SmokedRose

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

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xConfiguration UserInterface Wallpaper

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Select a background image (wallpaper) for the video screen when idle.
You may upload a custom wallpaper to the device using the web interface.
The following file formats are supported: JPEG, PNG.
The maximum file size is 8 MByte.

USAGE:

```
xConfiguration UserInterface Wallpaper: Wallpaper
```

where

Wallpaper:

Auto/Custom/None

Auto: Use the default wallpaper.

None: There is no background image on the screen.

Custom: Use the custom wallpaper as background image on the screen.
If no custom wallpaper is uploaded to the device, the setting will revert to the default value.

Default value:

Auto

xConfiguration UserInterface WebcamOnlyMode

Applies to: RoomKitMini

Requires user role: ADMIN

Not applicable in this software version.

USAGE:

```
xConfiguration UserInterface WebcamOnlyMode: WebcamOnlyMode
```

where

WebcamOnlyMode:

Auto/Off

Default value:

Auto

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

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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:

""

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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:

""

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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

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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

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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

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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

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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

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Video configuration

xConfiguration Video ActiveSpeaker DefaultPIPPosition

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Defines the position on screen of the active speaker picture-in-picture (PiP). The setting only applies when using a video layout where the active speaker is a PiP (refer to the Video DefaultLayoutFamily Local setting). The setting takes effect from the next call onwards. If changed during a call, it will have no effect on the current call.

USAGE:

`xConfiguration Video ActiveSpeaker DefaultPIPPosition:` *`DefaultPIPPosition`*

where

`DefaultPIPPosition`:

CenterLeft/CenterRight/Current/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight

Current: The position of the active speaker PiP will be kept unchanged when leaving a call.

UpperLeft: The active speaker PiP will appear in the upper left corner of the screen.

UpperCenter: The active speaker PiP will appear in the upper center position.

UpperRight: The active speaker PiP will appear in the upper right corner of the screen.

CenterLeft: The active speaker PiP will appear in the center left position.

CentreRight: The active speaker PiP will appear in the center right position.

LowerLeft: The active speaker PiP will appear in the lower left corner of the screen.

LowerRight: The active speaker PiP will appear in the lower right corner of the screen.

Default value:

Current

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: Not applicable in this software release.

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

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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. This configuration is applicable only to single-screen endpoints and does not affect dual-screen endpoints.

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: Not applicable in this software release.

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 DefaultLayoutFamily Remote

Applies to: All products

Requires user role: ADMIN

Select which video layout family to be used in the stream that is sent to the remote participants (far end). This setting applies only when using a device's built-in MultiSite feature (optional) to host a multipoint video conference.

USAGE:

```
xConfiguration Video DefaultLayoutFamily Remote: Remote
```

where

Remote:

Auto/Equal/Overlay/Prominent/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: Not applicable in this software release.

Prominent: 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

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xConfiguration Video DefaultMainSource

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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 *[RoomKit RoomKitMini Board]*

1/2/3 *[CodecPlus Room55 Room70/Room55D DeskMini]*

1/2/3/4 *[Desk]*

1/2/3/4/5 *[RoomBar DeskPro BoardPro]*

1/2/3/4/5/6 *[RoomBarPro BoardProG2]*

1/2/3/4/5/6/7/8/9 *[RoomKitEQX CodecEQ]*

1/2/3/4/5/6/7/8/9/10/11 *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

The default source for main video.

Default value:

1

xConfiguration Video Input AirPlay Beacon

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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

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xConfiguration Video Input AirPlay DiscoveryInstructions NetworkName

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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

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xConfiguration Video Input AirPlay Mode

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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:

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: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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 PresentationSelection

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN

Defines if the content presented through AirPlay is automatically shared.

USAGE:

```
xConfiguration Video Input AirPlay PresentationSelection:
PresentationSelection
```

where

PresentationSelection:

AutoShare/OnConnect

When the PresentationSelection setting is set to AutoShare a popup with a 5 second countdown appears before the content is automatically shared. You can dismiss autosharing until the countdown reaches 0.

When the PresentationSelection setting is OnConnect the popup stays on the screen until you tap share or dismiss the popup.

Default value:

AutoShare

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xConfiguration Video Input AirPlay SecurityMode

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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

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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 *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

1/2/3/4/5/6/7/8/9/10/11/12 *[RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

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 *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Off/On

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]*

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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

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:

Off

Off/On

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

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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/other/whiteboard

camera *[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 *[CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskMini Desk]*

1920_1080_60/3840_2160_30 *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardPro]*

1920_1080_60/3840_2160_30/3840_2160_60 *[DeskPro BoardPro BoardProG2]*

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]*

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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] OptimalDefinition Profile

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

This setting will not take effect if the corresponding Video Input Connector [n] Quality setting is set to Sharpness.

The optimal definition profile reflects the lighting conditions in the video conferencing room and the quality of the camera. The better lighting conditions and the better quality of the camera, the higher the profile. Generally, the Normal or Medium profiles are recommended. However, when the lighting conditions are very good, the High profile can be set in order to increase the resolution for a given call rate. The resolution must be supported by both the calling and called devices.

Use the Video Input Connector [n] OptimalDefinition Threshold60fps setting to set the lowest resolution where 60 fps is allowed. Below this threshold, 30 fps is the maximum frame rate.

USAGE:

```
xConfiguration Video Input Connector [n] OptimalDefinition Profile: Profile
```

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]*

Profile:

High/Medium/Normal

Normal: Use this profile for a typically to poorly lit environment. Resolutions will be set rather conservative.

Medium: Requires good and stable lighting conditions and a good quality video input. For some call rates this leads to higher resolution.

High: Requires nearly optimal video conferencing lighting conditions and a good quality video input in order to achieve a good overall experience. Rather high resolutions will be used.

Default value:

Medium [RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskMini Desk Board BoardPro BoardProG2]

Connector 1: Medium Connector 2, 3: High [DeskPro]

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xConfiguration Video Input Connector [n] OptimalDefinition Threshold60fps

Applies to: All products

Requires user role: ADMIN

For each video input, this setting tells the device the lowest resolution where it can transmit 60 fps. For all resolutions lower than this value, the maximum transmitted frame rate would be 30 fps. Above this resolution 60fps is possible, if the available bandwidth is adequate.

USAGE:

```
xConfiguration Video Input Connector [n] OptimalDefinition Threshold60fps:
Threshold60fps
```

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]*

Threshold60fps:

512_288/768_432/1024_576/1280_720/1920_1080/Never

512_288: Set the threshold to 512x288.

768_432: Set the threshold to 768x432.

1024_576: Set the threshold to 1024x576.

1280_720: Set the threshold to 1280x720.

1920_1080: Set the threshold to 1920x1080.

Never: Do not set a threshold for transmitting 60fps.

Default value:

1920_1080 *[RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Never *[RoomKit Room55]*

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:

1920_1080_60 *[CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/ Room70Panorama DeskMini Desk]*

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 CodecPro Room70G2 RoomPanorama/Room70Panorama]*

1920_1080_60/2560_1440_60/3840_2160_30 *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board BoardPro]*

1920_1080_60/2560_1440_60/3840_2160_30/3840_2160_60 *[DeskPro BoardPro BoardProG2]*

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:

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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*

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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]

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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] Transform

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Applies the selected transformation to the video input. A button in the share menu toggles between 'Rotate 180' and 'None' when this option is selected.

USAGE:

```
xConfiguration Video Input Connector [n] Transform: Transform
```

where

n: Unique ID that identifies the video input connector.

Range: 4..5 *[RoomBar RoomBarPro DeskPro BoardPro BoardProG2]*

Range: 5..6 *[RoomKitEQX CodecEQ]*

Range: 7 *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Transform:

FlipHorizontal/FlipVertical/None/Rotate180 *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini BoardPro BoardProG2]*

None *[Desk]*

None: No Transformation.

FlipHorizontal: Flips Horizontally.

FlipVertical: Flips Vertically.

Rotate180: Rotates the image 180°.

Default value:

None

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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

Never *[RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Always: The menu selection for the video input connector will always be visible on the user interface.

IfSignal: Yhe 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

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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

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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:

Auto

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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/Dual/DualPresentationOnly/Single *[RoomKit RoomBar CodecPlus Room55 Room70/ Room55D DeskPro DeskMini Desk BoardPro]*

Auto/Dual/DualPresentationOnly/Single/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] Brightness

Applies to: Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Define the brightness level for the device's integrated screen.

USAGE:

`xConfiguration Video Output Connector [n] Brightness: Brightness`

where

n: Unique ID that identifies the video output connector.

Range: 1..1

Brightness:

Integer (0..100)

Range: The value must be between 0 and 100.

Default value:

80

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

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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 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2]*

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

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xConfiguration Video Output Connector [n] HDCPForce1_4

Applies to: All products

Requires user role: ADMIN

Use this setting if you want to instruct the device to only use the HDCP 1.4 protocol on the output, even if it also supports the newer HDCP 2.2 version.

This might be necessary if equipment in the signal chain signals support for HDCP 2.2, without fully supporting it.

USAGE:

```
xConfiguration Video Output Connector [n] HDCPForce1_4: HDCPForce1_4
```

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]*

HDCPForce1_4:

Off/On *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

On *[RoomKit RoomKitMini CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Off: Offer standard HDCP negotiation, that is, use HDCP 2.2 if available, otherwise HDCP 1.4.

On: Offer only HDCP 1.4 for HDCP negotiation.

Default value:

On

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 CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama Board BoardProG2]*

Off/On *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

On *[Room55 DeskPro DeskMini Desk BoardPro 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]*

On *[BoardProG2]*

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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: "-1" Connector 3: "0" [BoardProG2]

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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]*

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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/PresentationOnly/Recorder/Second/Third *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardProG2]*

Auto/First/PresentationOnly/Second *[RoomKit RoomKitMini RoomBar CodecPlus Room55 Room70/Room55D DeskPro BoardPro]*

Auto/First/Second *[DeskPro BoardPro]*

Auto/First/Second/Third *[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.

In auto mode, Codec Pro Connector 3 uses the display's preferred resolution unless it is set to 3840x2160p30; in that case, it automatically switches to 1920x1080p60.

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:

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/Auto *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro BoardPro BoardProG2]*

1920_1080_50/1920_1080_60/1920_1200_50/1920_1200_60/2560_1440_60/3840_2160_30/Auto *[CodecPro Room70G2]*

1920_1080_60 *[DeskMini Desk]*

3840_2160_30 *[RoomPanorama/Room70Panorama]*

3840_2160_60 *[Room55 DeskPro Board BoardPro BoardProG2]*

Auto: The device will automatically try to set the optimal resolution based on

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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

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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

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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..1) *[Room55]*

Integer (1..2) *[RoomKit CodecPlus]*

Integer (1..3) *[CodecPro]*

Integer (2..2) *[Room70/Room55D]*

Integer (2..3) *[Room70G2]*

Integer (3..3) *[Room70G2]*

Range: The unique identifier of the selected video output connector.

Default value:

3 *[CodecPro Room70G2]*

2 *[RoomKit CodecPlus Room70/Room55D]*

1 *[Room55]*

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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

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

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xConfiguration Video Output Connector [n] Whitebalance Level

Applies to: Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

The integrated screen's color temperature (white balance) is adjustable from 4000 K (warm) to 9000 K (cool).

USAGE:

```
xConfiguration Video Output Connector [n] Whitebalance Level: Level
```

where

n: Unique ID that identifies the video output connector.

Range: 1..1

Level:

Integer (4000..9000)

The color temperature in Kelvin.

Default value:

6500

xConfiguration Video Presentation DefaultPIPPosition

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Define the position on screen of the presentation picture-in-picture (PiP). The setting only takes effect when the presentation is explicitly minimized to a PiP, for example using the user interface. The setting takes effect from the next call onwards; if changed during a call, it will have no effect on the current call.

USAGE:

```
xConfiguration Video Presentation DefaultPIPPosition: DefaultPIPPosition
```

where

DefaultPIPPosition:

CenterLeft/CenterRight/Current/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight

Current: The position of the presentation PiP will be kept unchanged when leaving a call.

UpperLeft: The presentation PiP will appear in the upper left corner of the screen.

UpperCenter: The presentation PiP will appear in the upper center position.

UpperRight: The presentation PiP will appear in the upper right corner of the screen.

CenterLeft: The presentation PiP will appear in the center left position.

CenterRight: The presentation PiP will appear in the center right position.

LowerLeft: The presentation PiP will appear in the lower left corner of the screen.

LowerRight: The presentation PiP will appear in the lower right corner of the screen.

Default value:

Current

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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 Board]*

1/2/3 *[CodecPlus Room55 Room70/Room55D DeskMini]*

1/2/3/4 *[Desk]*

1/2/3/4/5 *[RoomBar DeskPro BoardPro]*

1/2/3/4/5/6 *[RoomBarPro BoardProG2]*

1/2/3/4/5/6/7/8/9 *[RoomKitEQX CodecEQ]*

1/2/3/4/5/6/7/8/9/10/11 *[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 *[RoomPanorama/Room70Panorama]*

Equal/High/Low *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 DeskPro DeskMini Desk Board BoardPro BoardProG2]*

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

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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:

Current/Off/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

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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:

CenterLeft/CenterRight/Current/LowerLeft/LowerRight/UpperCenter/UpperLeft/ UpperRight

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]*

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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

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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 CanvasOopRasterization

Applies to: All products

Requires user role: ADMIN

This configuration allows you to enable or disable out-of-process canvas rasterization, which can enhance performance in web applications that utilize HTML canvas.

USAGE:

```
xConfiguration WebEngine Features CanvasOopRasterization:
CanvasOopRasterization
```

where

CanvasOopRasterization:

Off/On

On: Enables out-of-process canvas rasterization.

Off: Disables out-of-process canvas rasterization.

Default value:

Off

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:

Auto/Off/On

Off: The webpage rasterization is done on the CPU.

On: The webview may offload rasterization to the GPU.

Default value:

Off

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xConfiguration WebEngine Features LocalWebAppManagement

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board 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

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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 FpsCounter

Applies to: All products

Requires user role: ADMIN

Not applicable in this release.

USAGE:

```
xConfiguration WebEngine FpsCounter: FpsCounter
```

where

FpsCounter:

Off/On

Default value:

Off

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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:

TLSv1.2

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

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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

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xConfiguration Webex DevicePersonalization Features Whiteboard SignInRequired

Applies to: DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN

As an added privacy and security measure, whiteboard use can be set to require a user to sign in.

When no user is signed in, opening the whiteboard app prompts users to sign in using the QR code.

They are also reminded to sign out when exiting the whiteboarding feature.

USAGE:

```
xConfiguration Webex DevicePersonalization Features Whiteboard
SignInRequired: SignInRequired
```

where

SignInRequired:

False/True

False: Users can use the whiteboard feature without signing in.

True: The user is required to sign in to be allowed to use the whiteboard feature.

Default value:

False

xConfiguration Webex DevicePersonalization TaskBasedSignIn

Applies to: All products

Requires user role: ADMIN

User personalization through hot desk sign in will use the device or room calendar bookings as a reservation system to manage when the user is signed out.

Enable this setting for personal sign ins for tasks requiring personal data, such as personal whiteboards, without managing the sign in through the device or room calendar.

USAGE:

```
xConfiguration Webex DevicePersonalization TaskBasedSignIn: TaskBasedSignIn
```

where

TaskBasedSignIn:

Off/On

On: Enable personalization through hot desk sign in.

Off: Disable personalization through hot desk sign in.

Default value:

Off

xConfiguration Webex Hotdesking DefaultBookingEndTime

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ DeskPro DeskMini Desk Board BoardPro BoardProG2

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 AIAssistantAutoSummarize Available

Applies to: All products

Requires user role: ADMIN

This setting controls the display of the auto AI Assistant summary popup when joining a Webex Meeting, given that AI and meeting summaries are enabled for the meeting in general.

Note that this feature is exclusive to Webex Meetings and requires Webex optimization for OnPrem environments.

USAGE:

```
xConfiguration Webex Meetings AIAssistantAutoSummarize Available: Available
```

where

Available:

Off/On

On: Enables the AI Assistant summary popup.

Off:Disables the AI Assistant summary popup.

Default value:

On

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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 to 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

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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

xConfiguration Webex Privacy AllowUsageDataLogging

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN

When enabled, logs and metrics can be sent anonymously to Cisco.

USAGE:

```
xConfiguration Webex Privacy AllowUsageDataLogging: AllowUsageDataLogging
```

where

AllowUsageDataLogging:

False/True

False: Usage data logging is disabled. No logs or metrics will be sent.

True: Usage data logging is enabled. Logs and metrics can be sent anonymously.

Default value:

False

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xConfiguration Webex Proximity Mode

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Enable or disable ultrasound pairing. This Proximity Mode setting only impacts devices that are registered to the Webex cloud service.

USAGE:

```
xConfiguration Webex Proximity Mode: Mode
```

where

Mode:

Off/On

Default value:

On

xConfiguration Webex UpgradeChannel

Applies to: All products

Requires user role: ADMIN

Determines the software channel that the device will download and install. For example, "Preview" will offer early access to new releases while "Stable" offers more reliable software.

USAGE:

```
xConfiguration Webex UpgradeChannel: "UpgradeChannel"
```

where

UpgradeChannel:

String (1, 255)

The software channel that will be downloaded and installed.

Default value:

Stable

WebRTC configuration

xConfiguration WebRTC EndCallTimeout

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN

You can extend the period between pressing End call in a WebRTC meeting and the closing of the web view.

In normal operation, you do not need to change this setting, but it can be useful for troubleshooting.

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:

```
xConfiguration WebRTC EndCallTimeout: EndCallTimeout
```

where

EndCallTimeout:

Integer (0..600)

The period in seconds.

Default value:

2

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xConfiguration WebRTC InteractionMode

Applies to: RoomKitMini DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN

When in a WebRTC meeting, you can use the device's call controls or the WebRTC app's built-in controls.

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:

```
xConfiguration WebRTC InteractionMode: InteractionMode
```

where

InteractionMode:

Interactive/NonInteractive

Interactive: You can use the WebRTC app's built-in controls directly from the device's touch screen. This will give you access to the built-in WebRTC features.

NonInteractive: The WebRTC app's built-in controls are not available; you can only use the regular call controls of the device.

Default value:

NonInteractive

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:

""

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xConfiguration Zoom EnhancedCallControls

Applies to: All products

Requires user role: ADMIN

Cisco's custom Zoom user interface. This ensures a consistent experience every time you join a Zoom call, no matter how you dial in.

USAGE:

```
xConfiguration Zoom EnhancedCallControls: EnhancedCallControls
```

where

EnhancedCallControls:

Disabled/Enabled

Disabled: the Cisco's custom user interface is disabled.

Enabled: the Cisco's custom user interface is enabled, ensuring consistency.

Default value:

Enabled

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Chapter 4

xCommand commands

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Description of the xCommand commands

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AirPlay commands

xCommand AirPlay KeyEvent Back

Applies to: All products

Requires user role: ADMIN, USER

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, USER

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, USER

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, USER

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, USER

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, USER

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
```


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xCommand AirPlay KeyEvent Play

Applies to: All products

Requires user role: ADMIN, USER

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, USER

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, USER

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
```


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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, INTEGRATOR, 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:

HDMI/Line/Internal/Headset/All

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).

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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, INTEGRATOR, 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, INTEGRATOR, 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:

On/Off

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, INTEGRATOR, 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:

HDMI/Line/Internal/Headset/All

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

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xCommand Audio Equalizer List

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

Requires user role: ADMIN, INTEGRATOR

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: RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

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)

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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, INTEGRATOR

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 [AGC: AGC] [Channels: Channels] [Direct: Direct]
[InputId: InputId] [MixerMode: MixerMode] [Mute: Mute] [Name: "Name"]
```

where

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).

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.

MixerMode:

Auto/Fixed/GainShared

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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.

Name:

String (0, 255)

Choose a name that describes the local input. If you don't specify a name, the string will be empty.

xCommand Audio LocalInput AddConnector

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 ConnectorId: ConnectorId
ConnectorType: ConnectorType InputId: InputId
```

where

ConnectorId:

Integer (1..8)

Select a connector. The connectors' numbers are printed on the codec connector panel.

ConnectorType:

AirPlay/HDMI/Microphone/ARC/WebView/Ethernet/USBInterface *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

AirPlay/HDMI/Microphone/WebView/Ethernet/USBInterface/USBC *[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.

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.

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xCommand Audio LocalInput Remove

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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, INTEGRATOR

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 ConnectorId: ConnectorId
ConnectorType: ConnectorType InputId: InputId
```

where

ConnectorId:

Integer (1..8)

Select a connector. The connectors' numbers are printed on the codec connector panel.

ConnectorType:

AirPlay/HDMI/Microphone/ARC/WebView/Ethernet/USBInterface *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

AirPlay/HDMI/Microphone/WebView/Ethernet/USBInterface/USBC *[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.

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.

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xCommand Audio LocalInput Update

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 [AGC: AGC] [Channels: Channels] [Direct:
Direct] InputId: InputId [MixerMode: MixerMode] [Mute: Mute] [Name: "Name"]
```

where

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.

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.

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.

Name:

String (0, 255)

Choose a name that describes the local input.

xCommand Audio LocalInput Ethernet Deregister

Applies to: RoomBar 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..8) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

Integer (1..6) *[RoomPanorama/Room70Panorama]*

Integer (1..1) *[RoomBar]*

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.

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xCommand Audio LocalInput Ethernet PacketStatisticsReset

Applies to: RoomBar 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: RoomBar 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..8) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardPro BoardProG2]*

Integer (1..6) *[RoomPanorama/Room70Panorama]*

Integer (1..1) *[RoomBar]*

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, INTEGRATOR

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 [AutoconnectRemote: AutoconnectRemote]
[Channels: Channels] [Loudspeaker: Loudspeaker] [Name: "Name"] [OutputId:
OutputId] [VolumeControlled: VolumeControlled]
```

where

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

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

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

Name:

String (0, 255)

Choose a name that describes the local output.

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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

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, INTEGRATOR

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: AVIntegrator option required.

USAGE:

```
xCommand Audio LocalOutput AddConnector ConnectorId: ConnectorId
ConnectorType: ConnectorType OutputId: OutputId
```

where

ConnectorId:

Integer (1..8)

Select a connector. The connectors' numbers are printed on the codec connector panel.

ConnectorType:

ARC/Ethernet/HDMI/Line/USBInterface/WebView *[CodecPro]*

ARC/Ethernet/HDMI/Line/InternalSpeaker/USBInterface/WebView *[Room70G2 RoomPanorama/Room70Panorama]*

ARC/Ethernet/HDMI/Line/USBC/USBInterface/WebView *[CodecEQ]*

ARC/Ethernet/HDMI/Line/InternalSpeaker/USBC/USBInterface/WebView *[RoomKitEQX]*

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.

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.

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xCommand Audio LocalOutput ConnectInput

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 [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 LocalOutput DisconnectInput

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 InputId: InputId OutputId:
OutputId
```

where

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.

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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 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Integer (3..4) *[RoomKitEQX 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 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Integer (3..4) *[RoomKitEQX 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.

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xCommand Audio LocalOutput Remove

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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, INTEGRATOR

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: AVIntegrator option required.

USAGE:

```
xCommand Audio LocalOutput RemoveConnector ConnectorId: ConnectorId
ConnectorType: ConnectorType OutputId: OutputId
```

where

ConnectorId:

Integer (1..8)

Select a connector. The connectors' numbers are printed on the codec connector panel.

ConnectorType:

ARC/Ethernet/HDMI/Line/USBInterface/WebView *[CodecPro]*

ARC/Ethernet/HDMI/Line/InternalSpeaker/USBInterface/WebView *[Room70G2 RoomPanorama/Room70Panorama]*

ARC/Ethernet/HDMI/Line/USBC/USBInterface/WebView *[CodecEQ]*

ARC/Ethernet/HDMI/Line/InternalSpeaker/USBC/USBInterface/WebView *[RoomKitEQX]*

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.

OutputId:

Integer (0..65534)

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xCommand Audio LocalOutput Update

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 [AutoconnectRemote: AutoconnectRemote]
[Channels: Channels] [Loudspeaker: Loudspeaker] [Name: "Name"] OutputId:
OutputId [VolumeControlled: VolumeControlled]
```

where

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.

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.

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.

Name:

String (0, 255)

Choose a name that describes the local output.

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.

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, INTEGRATOR

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.

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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

Activates the noise removal feature on the device. To enable this feature, xConfiguration Audio Microphones NoiseRemoval Mode must first be set to "Enable."

USAGE:

```
xCommand Audio Microphones NoiseRemoval Activate [BackgroundTalkers:
BackgroundTalkers]
```

where

BackgroundTalkers:

Keep/Suppress

Controls the handling of background voices when noise removal is active.

Keep: Background voices are retained in the audio stream.

Suppress: Background voices are minimized to enhance clarity for primary speakers.

Default value: Keep

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
```


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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 (2..2) *[Room70/Room55D]*

Integer (1..3) *[CodecPro]*

Integer (3..3) *[Room70G2]*

Integer (2..3) *[Room70G2]*

Integer (1..2) *[RoomKit CodecPlus]*

Integer (1..1) *[Room55]*

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]*

Integer (3..3) *[Room70G2]*

Integer (2..3) *[Room70G2]*

Integer (1..2) *[RoomKit CodecPlus]*

Integer (1..1) *[Room55]*

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
```


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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, INTEGRATOR

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 [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 RemoteOutput DisconnectInput

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR

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 InputId: InputId OutputId:
OutputId
```

where

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.

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xCommand Audio RemoteOutput UpdateInputGain

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro

Requires user role: ADMIN, INTEGRATOR

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/HeadsetUSB/HandsetUSB *[RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetUSB/HandsetUSB *[RoomKit RoomKitMini Room55]*

Internal/HeadsetBluetooth/HeadsetUSB/HeadsetAnalog/HandsetUSB *[DeskPro]*

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, INTEGRATOR

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, INTEGRATOR

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
```


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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/RecordingStart/WebexAssistantCapturingNotes

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
```


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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:

Off/On

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, INTEGRATOR, 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 [Steps: Steps] [Device: Device]
```

where

Steps:

Integer (1..10)

Choose the number of steps to decrease the volume with. One step is 0.5 dB.

Default value: 5

Device: *[RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB *[RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetUSB/HandsetUSB *[RoomKit RoomKitMini Room55]*

Internal/HeadsetBluetooth/HeadsetUSB/HeadsetAnalog/HandsetUSB *[DeskPro]*

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.

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xCommand Audio Volume Increase

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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 [Steps: Steps] [Device: Device]
```

where

Steps:

Integer (1..10)

Choose the number of steps to increase the volume with. One step is 0.5 dB.

Default value: 5

Device: *[RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB *[RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetUSB/HandsetUSB *[RoomKit RoomKitMini Room55]*

Internal/HeadsetBluetooth/HeadsetUSB/HeadsetAnalog/HandsetUSB *[DeskPro]*

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.

xCommand Audio Volume Mute

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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 Level: Level [Device: Device]
```

where

Level:

Integer (0..100)

Select the gain level. 70 equals 0 dB gain, and 100 equals 15 dB gain.

Device: *[RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetBluetooth/HeadsetUSB/HandsetUSB *[RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetUSB/HandsetUSB *[RoomKit RoomKitMini Room55]*

Internal/HeadsetBluetooth/HeadsetUSB/HeadsetAnalog/HandsetUSB *[DeskPro]*

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.

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xCommand Audio Volume SetToDefault

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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/HeadsetBluetooth/HeadsetUSB/HandsetUSB *[RoomBar RoomBarPro DeskMini Desk BoardPro BoardProG2]*

Internal/HeadsetUSB/HandsetUSB *[RoomKit RoomKitMini Room55]*

Internal/HeadsetBluetooth/HeadsetUSB/HeadsetAnalog/HandsetUSB *[DeskPro]*

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, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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..8) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardPro BoardProG2]*

Integer (1..5) *[Board]*

Integer (1..2) *[RoomBar]*

Integer (1..3) *[RoomKit CodecPlus Room55 Room70/Room55D]*

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 CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk]*

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Microphone/Ethernet/USBMicrophone *[RoomBar RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

MicArray/Microphone/USBMicrophone/Ethernet *[RoomBarPro BoardPro BoardProG2]*

MicArray/Microphone *[Board]*

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:

On/Off

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:

Integer (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:

BeforeAEC/AfterAEC

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, INTEGRATOR, 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..8) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Integer (1..5) *[Board]*

Integer (1..2) *[RoomBar]*

Integer (1..3) *[RoomKit CodecPlus Room55 Room70/Room55D]*

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 CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk]*

Microphone/Ethernet/USBMicrophone *[RoomBar RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama]*

MicArray/Microphone/USBMicrophone/Ethernet *[RoomBarPro BoardPro BoardProG2]*

MicArray/Microphone *[Board]*

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, INTEGRATOR, USER

Stop all VU meters.

USAGE:

```
xCommand Audio VuMeter StopAll
```


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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
```


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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] [MeetingPlatform: MeetingPlatform] [Number: "Number"]
[OrganizerEmail: "OrganizerEmail"] [OrganizerId: "OrganizerId"] [OrganizerName:
"OrganizerName"] [Protocol: Protocol] [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 (1..1440)

The duration of the meeting, in minutes.

Default value: 30

MeetingPlatform:

MicrosoftTeams/GoogleMeet/Zoom/Webex/Other/None

The meeting platform for any meeting if added.

Number:

String (0, 128)

The address or number for a meeting.

OrganizerEmail:

String (0, 128)

The organizer's email address.

OrganizerId:

String (0, 128)

The organizer's unique ID.

OrganizerName:

String (0, 128)

The organizer's name.

Protocol:

SIP/H323/ISDN/IP/Spark/WebRTC/None

The calling protocol for any meeting if added.

StartTime:

String (0, 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 (0, 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 CheckIn

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Check in the booking that is identified by either the Id or MeetingId parameter. This command is only available on devices with the CheckIn feature enabled.

USAGE:

```
xCommand Bookings CheckIn [Id: "Id"] [MeetingId: "MeetingId"] [TrackingData:
"TrackingData"]
```

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 assigned 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.

TrackingData:

String (0, 128)

Describes the origin of the Check In action.

Default value: BookingsCheckIn_API

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xCommand Bookings CheckOut

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Check out the booking that is identified by either the Id or MeetingId parameter. This will remove the booking from the calendar. This command is only available on devices with the CheckIn feature enabled.

USAGE:

```
xCommand Bookings CheckOut [Id: "Id"] [MeetingId: "MeetingId"] [TrackingData: "TrackingData"]
```

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.

TrackingData:

String (0, 128)

Describes the origin of the Check Out action.

Default value: BookingsCheckOut_API

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.

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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 parameters 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] [Id: "Id"] [MeetingId:
"MeetingId"] [MeetingPlatform: MeetingPlatform] [Number: "Number"]
[OrganizerEmail: "OrganizerEmail"] [OrganizerId: "OrganizerId"] [OrganizerName:
"OrganizerName"] [Protocol: Protocol] [StartTime: "StartTime"] [Title: "Title"]
```

where

Duration:

Integer (1..1440)

Duration of the meeting in minutes.

Id:

String (1, 128)

The internal identifier.

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.

MeetingPlatform:

MicrosoftTeams/GoogleMeet/Zoom/Webex/Other/None

The meeting platform for any meeting if added.

Number:

String (0, 128)

The address or number for a meeting.

OrganizerEmail:

String (0, 128)

The organizer's email address.

OrganizerId:

String (0, 128)

The organizer's unique ID.

OrganizerName:

String (0, 128)

The organizer's name.

Protocol:

SIP/H323/ISDN/IP/Spark/WebRTC/None

The calling protocol for any meeting if added.

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"] [MeetingId:
"MeetingId"]
```

where

Duration:

Integer (1..1440)

Duration of the meeting in minute.

Id:

String (1, 128)

A unique 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.

MeetingId:

String (1, 128)

A unique meeting identifier. It is assigned to the meeting by the calendar service backend.

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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"] [MeetingId: "MeetingId"]
```

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.

MeetingId:

String (1, 128)

A unique meeting identifier. It is assigned to the meeting by the calendar service backend.

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 [AccountType: AccountType] [DayOffset: DayOffset]
[Days: Days] [Limit: Limit] [Offset: Offset] [ScheduleType: ScheduleType]
```

where

AccountType:

Shared/Personal/SharedAndPersonal

Shows only the specified account's type. This is mainly useful for a hot desk device, which may have a shared (room) or personal account.

DayOffset:

Integer (0..365)

Which day to start the search from (today: 0, tomorrow: 1, ...).

Default value: 0

Days:

Integer (1..365)

Number of days to retrieve bookings from.

Limit:

Integer (1..65534)

Max number of bookings to list.

Offset:

Integer (0..65534)

Offset number of bookings for this search.

Default value: 0

ScheduleType:

Current/Upcoming

Shows either ongoing meetings, or upcoming meetings.

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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"] [MeetingId: "MeetingId"]
[SecondsToSnooze: SecondsToSnooze]
```

where

Id:

String (1, 128)

The ID of the notification snooze setting.

MeetingId:

String (1, 128)

A unique meeting identifier. It is assigned to the meeting by the calendar service backend.

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.

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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/None" },
{ "MeetingPlatform", "GoogleMeet/MicrosoftTeams/Zoom/Webex/Other/None" },
{ "MetaInfo", "...." },
{ "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
```


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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

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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.

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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.

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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] [ParticipantId:
"ParticipantId"] SourceId: SourceId
```

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

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.

SourceId:

Integer (0..15)

Select a video input source on the far end.

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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 [CallId: CallId] Text: "Text" Type: "Type"
```

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.

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.

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.

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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:

IntegerArray (0..65534 [10])

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 transfered to.

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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 [AcknowledgeConsecutiveDuplicates:
AcknowledgeConsecutiveDuplicates] CallHistoryId: CallHistoryId
```

where

AcknowledgeConsecutiveDuplicates:

False/True

You can include or exclude all surrounding calls with duplicate information.

Default value: False

CallHistoryId:

Integer (1..2147483647)

CallHistoryId for the call in question. Run xCommand CallHistory Get to get the id number.

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

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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 [CallHistoryId: CallHistoryId] [DetailLevel:
DetailLevel] [Filter: Filter] [Limit: Limit] [Offset: Offset] [SearchString:
"SearchString"]
```

where

CallHistoryId:

Integer (1..2147483647)

CallHistoryId for the call in question.

DetailLevel:

Basic/Full

Sets the level of detail for the information on these calls.

Default value: Basic

Filter:

All/Missed/AnsweredElsewhere/Forwarded/Placed/NoAnswer/Received/Rejected/UnacknowledgedMissed/Pmr

You can filter which calls to retrieve. Pmr refers to a personal meeting room.

Default value: All

Limit:

Integer (0..65534)

Defines the amount of calls in the output.

Default value: 65534

Offset:

Integer (0..65534)

Sets the call from which to start.

Default value: 0

SearchString:

String (0, 255)

Allows you to set the command to apply to a specified display name or call back number.

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 [DetailLevel: DetailLevel] [Filter: Filter]
[Limit: Limit] [Offset: Offset] [Order: Order] [SearchString: "SearchString"]
```

where

DetailLevel:

Basic/Full

Sets the level of detail for the information on these calls.

Default value: Basic

Filter:

All/Missed/AnsweredElsewhere/Forwarded/Placed/NoAnswer/Received/Rejected/UnacknowledgedMissed/Pmr

You can filter which calls to retrieve. Pmr refers to a personal meeting room.

Default value: All

Limit:

Integer (0..65534)

Defines the amount of calls in the output.

Default value: 65534

Offset:

Integer (0..65534)

Sets the call from which to start.

Default value: 0

Order:

OccurrenceTime/OccurrenceFrequency

Define the order in which the previous calls are presented.

Default value: OccurrenceTime

SearchString:

String (0, 255)

Allows you to set the command to apply to a specified display name or call back number.

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Camera commands

xCommand Camera Boot

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, USER

This API executes the boot command and is currently supported only on Helios cameras. For all other camera models, the API will return a 'FunctionNotAvailable' response.

USAGE:

```
xCommand Camera Boot CameraId: CameraId
```

where

CameraId:

Integer (1..10)

Camera Id

xCommand Camera FactoryReset

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, USER

This API performs a factory reset on the camera. It is currently supported only on Helios cameras. For all other camera models, the API will return a 'FunctionNotAvailable' response.

USAGE:

```
xCommand Camera FactoryReset CameraId: CameraId Confirm: Confirm
```

where

CameraId:

Integer (1..10)

Camera Id

Confirm:

Yes

Confirm factory reset

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..12)

The ID of the camera you want to reset.

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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] [Tilt: Tilt] [Zoom: Zoom] [Roll: Roll]
```

where

CameraId:

Integer (1..1) *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

Integer (1..12) *[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:

Wide *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

Wide/Center/Left/Right *[RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

Wide/Center/Tele *[RoomBarPro BoardProG2]*

Wide/Center *[BoardPro]*

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.

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).

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.

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.

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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..12) *[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 [DefaultPosition: DefaultPosition] [ListPosition:
ListPosition] [Name: "Name"] PresetId: PresetId
```

where

DefaultPosition:

False/True

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.

PresetId:

Integer (1..35)

The ID of the camera preset you want to edit.

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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..12) *[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.

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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 CameraId: CameraId [DefaultPosition:
DefaultPosition] [ListPosition: ListPosition] [Name: "Name"] [PresetId:
PresetId] [TakeSnapshot: TakeSnapshot]
```

where

CameraId:

Integer (1..1) *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

Integer (1..12) *[RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Select the camera for which to store the preset position.

DefaultPosition:

False/True

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.

PresetId:

Integer (1..35)

The ID of this camera preset. If not set explicitly, the codec will assign a preset ID automatically.

TakeSnapshot:

False/True

Allow or disallow snapshot of the preview.

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] [Focus: Focus] [Pan: Pan]
[PanSpeed: PanSpeed] [Tilt: Tilt] [TiltSpeed: TiltSpeed] [Zoom: Zoom]
[ZoomSpeed: ZoomSpeed]
```

where

CameraId:

Integer (1..1) *[RoomKit RoomKitMini RoomBar Room55 DeskPro DeskMini Desk Board]*

Integer (1..12) *[RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2]*

Select the camera.

Focus:

Far/Near/Stop

Focus the camera Far or Near, followed by Stop.

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/Stop/Up

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.

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xCommand Cameras Stereoscopic Mute

Applies to: RoomBarPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, USER

Mute the stereoscopic 3D video stream. This will stop sending 3D for the duration of the call.

USAGE:

```
xCommand Cameras Stereoscopic Mute
```

xCommand Cameras Stereoscopic Unmute

Applies to: RoomBarPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, USER

Unmute the stereoscopic 3D video stream. This will start sending 3D if there is a participant with compatible hardware in the meeting.

USAGE:

```
xCommand Cameras Stereoscopic Unmute
```

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..12)

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..12)

Select the camera upon which to trigger white balance.

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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:

Integer (1..12)

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:

Integer (1..12)

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.

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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.

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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/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: Pre-installed images.

User1, User2, and User3: Images that are uploaded by the user.

Mode:

Disabled/Blur/BlurMonochrome/DepthOfField/Monochrome/UsbC/Image [DeskMini]

Disabled/Blur/BlurMonochrome/DepthOfField/Monochrome/Hdmi/UsbC/Image [DeskPro Desk]

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.

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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.

* LIGHT BLUE: 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. Persitent mode is automatically turned off when camera moves to a different preset.

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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

Activates 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. SpeakerTrack is supported on Board and Room series (except Room Kit Mini), and applies only to devices with cameras that support speaker tracking.

Best Overview mode is supported on Room Kit Mini and Desk series.

USAGE:

```
xCommand Cameras SpeakerTrack Activate
```

xCommand Cameras SpeakerTrack Closeup 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

Activates close ups when speaker tracking is in use. Requires that xConfiguration Cameras SpeakerTrack Mode is set to Auto (default).

This command applies only to devices with cameras that support speaker tracking.

USAGE:

```
xCommand Cameras SpeakerTrack Closeup Activate
```

xCommand Cameras SpeakerTrack Closeup 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

Deactivates close ups when speaker tracking is in use.

This command applies only to devices with cameras that support speaker tracking.

USAGE:

```
xCommand Cameras SpeakerTrack Closeup Deactivate
```

xCommand Cameras SpeakerTrack Deactivate

Applies to: All products

Requires user role: ADMIN, USER

Deactivates SpeakerTrack or Best Overview mode.

USAGE:

```
xCommand Cameras SpeakerTrack Deactivate
```

xCommand Cameras SpeakerTrack Calibration Diagnostics Start

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

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
```


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xCommand Cameras SpeakerTrack Calibration Diagnostics Stop

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

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 [Framing: Framing]
```

where

Framing:

On/Off *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

Off *[Board]*

Default value: On

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.

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.

USAGE:

```
xCommand Cameras SpeakerTrack Frames Activate
```


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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.

USAGE:

```
xCommand Cameras SpeakerTrack Frames Deactivate
```

xCommand Cameras SpeakerTrack Set

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

This command allows you to select from the various available camera modes.

USAGE:

```
xCommand Cameras SpeakerTrack Set Behavior: Behavior
```

where

Behavior:

Manual/BestOverview/Frames *[RoomKitMini]*

Manual/BestOverview *[DeskPro DeskMini Desk]*

Manual/BestOverview/Closeup/Frames/GroupAndSpeaker *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardProG2]*

Manual/BestOverview/Closeup/Frames *[RoomKit RoomBar CodecPlus Room55 Room70/Room55D RoomPanorama/Room70Panorama Board BoardPro]*

Manual: The camera is controlled manually. The pan-tilt-zoom values are kept unchanged when leaving a call.

BestOverview: The camera will adjust automatically so you are always in the center of the frame. The default framing mode is Best overview.

Closeup: The camera will follow the person speaking.

Current: The framing mode is kept unchanged when leaving a call.

Frames: The camera will zoom and show people individually or in smaller groups.

GroupAndSpeaker: Remote participants will see two views at the same time: a group overview and a close-up of the active speaker.

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
```


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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 CameraId: CameraId
[WhiteboardId: WhiteboardId]
```

where

CameraId:

Integer (1..1) *[RoomKit RoomBar Room55]*

Integer (1..12) *[RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

WhiteboardId:

Integer (1..8)

Default value: 1

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 CameraId: CameraId
Distance: Distance
```

where

CameraId:

Integer (1..12)

Distance:

Integer (300..1500)

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 Distance: Distance
[WhiteboardId: WhiteboardId]
```

where

Distance:

Integer (0..65534)

WhiteboardId:

Integer (1..8)

Default value: 1

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 CameraId: CameraId
[WhiteboardId: WhiteboardId]
```

where

CameraId:

Integer (1..1) *[RoomKit RoomBar Room55]*

Integer (1..12) *[RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

WhiteboardId:

Integer (1..8)

Default value: 1

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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, INTEGRATOR, 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 (0..65534)

Unique identifier of the call. During a call you can run the xStatus Call command to see the CallId.

Default value: 0

ParticipantRole:

Host/Panelist/Guest

Guest: Join as guest. Guests have no special privileges. User 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.

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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.

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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:

On/Off

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:

On/Off

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.

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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 [CallId: CallId]
```

where

CallId:

Integer (0..65534)

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 [CallId: CallId]
```

where

CallId:

Integer (0..65534)

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 AudioMute: AudioMute [CallId: CallId]
```

where

AudioMute:

On/Off

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.

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.

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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:

On/Off

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.

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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.

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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.

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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.

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.

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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:

Smile/Sad/Wow/Haha/Celebrate/Clap/ThumbUp/ThumbDown/Fire/Prayer/Heart/SpeedUp/SlowDown

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 (0..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 (0..65534)

Identify CallId for the remote participant.

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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 (0..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 stoppped. When you are recording a meeting, you can use this setting to stop recording.

USAGE:

```
xCommand Conference Recording Stop [CallId: CallId]
```

where

CallId:

Integer (0..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:

StringArray (1, 128 [10])

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 (0..65534)

1 is neutral (yellow), 2 is the lightest skin tone, and 6 the darkest skin tone option.

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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:

Host/Panelist/Guest/Cohost/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] [StreamId: StreamId]
```

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.

StreamId:

Integer (1..1) *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus Room55 Room70/Room55D DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Integer (1..4) *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

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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 [CallId: CallId] Target: Target
```

where

CallId:

Integer (0..65534)

Identify CallId for the remote participant. Only relevant if Target is set to "remote".

Default value: 0

Target:

Local/Remote

Identifies local or remote participant.

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 (0..65534)

Unique identifier of the call. During a call, you can run the xStatus Call command to see the CallId.

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Diagnostics commands

xCommand Diagnostics Run

Applies to: All products

Requires user role: ADMIN, TOUCHUSER

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 Diagnaostics 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 ConferenceId, which are required for some of the other commands.

USAGE:

```
xCommand Dial [Appearance: Appearance] [BookingId: "BookingId"] [CallRate:
CallRate] [CallType: CallType] [DisplayName: "DisplayName"] Number: "Number"
[Protocol: Protocol] [TrackingData: "TrackingData"]
```

where

Appearance:

Integer (1..999999999)

Only for Cisco internal use.

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.

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:

Auto/Audio/Video

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

DisplayName:

String (0, 255)

The display name of the remote participant.

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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.

TrackingData:

String (0, 255)

A tag or label that will be preserved and stored in the call history.

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

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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 indentifier 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.

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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).

This is not available when using cloud APIs.

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:

StringArray (0, 3072 [20])

An HTTP header field. You can add up 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 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>.

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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).

This is not available when using cloud APIs.

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:

StringArray (0, 3072 [20])

An HTTP header field. You can add up 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 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: PlainText

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>.

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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).

This is not available when using cloud APIs.

USAGE:

```
xCommand HttpClient Patch [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:

StringArray (0, 3072 [20])

An HTTP header field. You can add up 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 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>.

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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.

This is not available when using cloud APIs.

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:

StringArray (0, 3072 [20])

An HTTP header field. You can add up 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 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>.

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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.

This is not available when using cloud APIs.

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:

StringArray (0, 3072 [20])

An HTTP header field. You can add up 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 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>.

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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 [Expression: Expression] FeedbackSlot:
FeedbackSlot [Format: Format] ServerUrl: "ServerUrl"
```

where

Expression:

StringArray (1, 255 [50])

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.

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.

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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:

Info/Warning/Error

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:

Normal/Large

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

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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:

False/True

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:

False/True

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.

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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

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

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
```


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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.

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
```


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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.

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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 Join

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

Allows users to join Microsoft Teams meetings with a URL or a meeting id/passcode. Valid paramater combinations: MeetingNumber AND passcode, URL, URL AND BookingID.

USAGE:

```
xCommand MicrosoftTeams Join [BookingId: "BookingId"] [MeetingNumber:
"MeetingNumber"] [Passcode: "Passcode"] [Title: "Title"] [TrackingData:
"TrackingData"] [Url: "Url"]
```

where

BookingId:

String (0, 255)

The booking ID can be provided together with the URL, taken from a booking in the xCommand bookings list result. The booking ID is required for snooze and ignore functionality to work correctly. Additionally, the protocol of the booking must be set to WebRTC.

MeetingNumber:

String (0, 255)

The meeting ID of the meeting.

Passcode:

String (0, 255)

The passcode of the meeting.

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: MsTeamsJoin_command

Url:

String (0, 2000)

The web URL of the meeting.

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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 SignOut

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN

Log out from Microsoft Teams on the codec, Touch Panel, or all devices. If not given a parameter, the user will be signed off from Microsoft Teams on all devices.

USAGE:

```
xCommand MicrosoftTeams SignOut [Device: Device]
```

where

Device:

All/Codec/TouchPanel

All: Log out from all devices.

Codec: Log out from the Codec.

TouchPanel: Log out from the Room Navigator.

Default value: All

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 [Force: Force]
```

where

Force:

False/True

Default value: False

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Network commands

xCommand Network SMTP VerifyConfig

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro 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 paramter).

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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. Auto connect 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"] [Connect: Connect] [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

Default value: False

AnonymousIdentity:

String (0, 255)

The anonymous identity, if applicable.

Connect:

Auto *[RoomKit RoomKitMini CodecPlus Room55 Room70/Room55D Board]*

Auto/Later *[RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

The behavior after saving the configuration.

Auto: Connect to the Wi-Fi network immediately.

Later: Connect to the Wi-Fi network later.

Default value: Auto

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.

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SSID:

String (0, 255)

The SSID for the Wi-Fi connection.

Type:

Open/Wpa2-psk/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls/None/Personal/Enterprise-Fast/Enterprise-Peap/Enterprise-Tls/Enterprise-Ttls

The encryption type and authentication method for the Wi-Fi connection. We support the following types:

None: Open network (not secured)

Personal: WPA2 (PSK) or WPA3 (SAE) Personal, with CCMP128 (AES) cipher.

Enterprise-Fast: WPA2 or WPA3 Enterprise, with Flexible Authentication via Secure Tunneling (EAP-FAST).

Enterprise-Peap: WPA2 or WPA3 Enterprise, with PEAP (Protected EAP) with EAP-MSCHAPv2 or EAP-GTC).

Enterprise-Tls: WPA2 or WPA3 Enterprise, with EAP Transport Layer Security (EAP-TLS).

Enterprise-Ttls: WPA2 or WPA3 Enterprise, with EAP Tunneled Transport Layer Security (EAP-TTLS). The following types are deprecated but are still available for backwards compatibility:

Open, Wpa2-psk, Wpa2-eap-fast, Wpa2-eap-peap, Wpa2-eap-tls, Wpa2-eap-ttls.

xCommand Network Wifi Connect

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Connect to the specified Wi-Fi network profile.

USAGE:

```
xCommand Network Wifi Connect ProfileID: "ProfileID"
```

where

ProfileID:

String (0, 255)

The ProfileID to connect to.

xCommand Network Wifi Delete

Applies to: All products

Requires user role: ADMIN, USER

Deletes the specified Wi-Fi network connection from the device.

USAGE:

```
xCommand Network Wifi Delete [ProfileID: "ProfileID"] [SSID: "SSID"]
```

where

ProfileID:

String (0, 255)

The ProfileID of the stored profile.

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 all configured Wi-Fi profiles.

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 (0..120)

The duration of the Wi-Fi scan, in seconds.

Default value: 0

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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.

ID:

String (1, 100)

A unique ID for the peripheral, typically a MAC address.

Name:

String (0, 100)

Define a name for the peripheral.

NetworkAddress:

String (0, 100)

Network address for the peripheral.

SerialNumber:

String (0, 100)

The peripheral's serial number.

SoftwareInfo:

String (0, 100)

The version of the software that the peripheral is running.

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Type:

AudioAmplifier/AudioMicrophone/Byod/Camera/ControlSystem/Other/TableExtender/TouchPanel/RoomScheduler/PersistentWebApp/VideoSwitcher

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

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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.

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xCommand Peripherals Security Certificates Services Activate

Applies to: All products

Requires user role: ADMIN

Activates a certificate on a peripheral.

USAGE:

```
xCommand Peripherals Security Certificates Services Activate Fingerprint:
"Fingerprint" ID: "ID" 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.

ID:

String (1, 100)

The unique identifier (ID) for the Peripheral. You can get the peripheral ID by running xCommand Peripherals List.

Purpose:

802.1X

The purpose of this certificate.

802.1X: For applying 802.1x security authentication.

xCommand Peripherals Security Certificates Services Delete

Applies to: All products

Requires user role: ADMIN

Deletes security certificates from the remote peripheral.

USAGE:

```
xCommand Peripherals Security Certificates Services Delete Fingerprint:
"Fingerprint" ID: "ID"
```

where

Fingerprint:

String (0, 128)

The unique Identifier for the certificate that is deleted.

ID:

String (1, 100)

The unique identifier (ID) for the Peripheral.

xCommand Peripherals Security Certificates Services Enrollment SCEP Request

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Instructs a peripheral to send a CSR using the specified SCEP server url.

USAGE:

```
xCommand Peripherals Security Certificates Services Enrollment SCEP
Request [ChallengePassword: "ChallengePassword"] CommonName: "CommonName"
[CountryName: "CountryName"] Fingerprint: "Fingerprint" ID: "ID"
[LocalityName: "LocalityName"] [OrganizationName: "OrganizationName"]
[OrganizationalUnit: OrganizationalUnit] [SanDns: SanDns] [SanEmail: SanEmail]
[SanIp: SanIp] [SanUri: SanUri] [StateOrProvinceName: "StateOrProvinceName"]
URL: "URL"
```

where

ChallengePassword:

String (0, 256)

OTP or Shared Secret from the SCEP Server for access to sign.

CommonName:

String (0, 64)

Adds "/CN=" to the CSR SubjectName.

CountryName:

String (0, 2)

Adds "/C=" to the CSR Subject Name.

Fingerprint:

String (0, 128)

CA Certificate Fingerprint that will sign the SCEP request CSR.

ID:

String (12, 17)

The unique identifier (ID) for the Peripheral. You can get the peripheral ID by running xCommand Peripherals List.

LocalityName:

String (0, 64)

OrganizationName:

String (0, 64)

Adds "/O=" to the CSR Subject Name.

OrganizationalUnit:

StringArray (0, 64 [5])

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SanDns:

StringArray (0, 64 [5])

Adds up to 5 Dns parameters to the CSR Subject Alternative Name.

SanEmail:

StringArray (0, 64 [5])

Adds up to 5 Email parameters to the CSR Subject Alternative Name.

SanIp:

StringArray (0, 64 [5])

Adds up to 5 Ip parameters to the CSR Subject Alternative Name.

SanUri:

StringArray (0, 64 [5])

Adds up to 5 Uri parameters to the CSR Subject Alternative Name.

StateOrProvinceName:

String (0, 64)

URL:

String (0, 256)

The URL address of the SCEP server.

xCommand Peripherals Security Certificates Services Enrollment SCEP Renewal Request

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Instructs a peripheral to renew its certificate using the specified SCEP server url.

USAGE:

```
xCommand Peripherals Security Certificates Services Enrollment SCEP Renewal
Request CAFingerprint: "CAFingerprint" CertFingerprint: "CertFingerprint" ID:
"ID" URL: "URL"
```

where

CAFingerprint:

String (0, 128)

CertFingerprint:

String (0, 128)

ID:

String (12, 17)

The unique identifier (ID) for the Peripheral. You can get the peripheral ID by running xCommand Peripherals List.

URL:

String (0, 256)

The URL address of the SCEP server.

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xCommand Peripherals Security Certificates Services Show

Applies to: All products

Requires user role: ADMIN, USER

Shows certificates on a peripheral.

USAGE:

```
xCommand Peripherals Security Certificates Services Show [Filter: Filter]
[FingerprintAlgorithm: FingerprintAlgorithm] [Format: Format] ID: "ID"
```

where

Filter:

802.1X

802.1X: For applying 802.1x security authentication.

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

ID:

String (1, 100)

The unique identifier (ID) for the Peripheral. You can get the peripheral ID by running xCommand Peripherals List.

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/RoomScheduler/PersistentWebApp

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.

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xCommand Peripherals UserManagement User Add

Applies to: All products

Requires user role: ADMIN

Adds a new user to the peripheral (Room Navigator) that is idenified 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/User/Integrator/RoomControl

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 idenified 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.

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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 idenified 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 idenified 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

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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/User/Integrator/RoomControl

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/User/Integrator/RoomControl

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.

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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 [CallRate: CallRate] [CallType: CallType]
[Device: Device] [FolderId: "FolderId"] [ImageURL: "ImageURL"] Name: "Name"
[Number: "Number"] [Protocol: Protocol] [Tag: Tag] [Title: "Title"]
```

where

CallRate:

Integer (0..6000)

Set the call rate (kbps) to use when calling this contact.

CallType:

Auto/Audio/Video

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.

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.

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Name:

String (0, 255)

The name of the contact.

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.

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" [FolderId:
"FolderId"] [ImageURL: "ImageURL"] [Name: "Name"] [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.

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.

Name:

String (0, 255)

The name of the contact.

Tag:

Untagged/Favorite

Tag the contact as a Favorite, or untag an already tagged contact.

Title:

String (0, 255)

The title of the contact.

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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 [CallRate: CallRate] [CallType:
CallType] ContactId: "ContactId" [Device: Device] Number: "Number" [Protocol:
Protocol]
```

where

CallRate:

Integer (0..6000)

Set the call rate (kbps) to use when calling this contact.

CallType:

Auto/Audio/Video

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

Default value: Auto

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.

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 ContactMethod Add command was issued to make the contact method.

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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 [CallRate: CallRate] [CallType:
CallType] ContactId: "ContactId" ContactMethodId: "ContactMethodId" [Device:
Device] [Number: "Number"] [Protocol: Protocol]
```

where

CallRate:

Integer (0..6000)

Set the call rate (kbps) to use when calling this contact.

CallType:

Auto/Audio/Video

Select a call type (audio or video). By selecting Auto, the device will decide the call type automatically.

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.

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.

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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 [ContactMethodLimit: ContactMethodLimit]
[ContactType: ContactType] [FolderId: "FolderId"] [Limit: Limit] [Offset:
Offset] [PhonebookId: "PhonebookId"] [PhonebookType: PhonebookType]
[Recursive: Recursive] [SearchField: SearchField] [SearchFilter: SearchFilter]
[SearchString: "SearchString"] [Tag: Tag]
```

where

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

ContactType:

Any/Folder/Contact

Search all contact types, or limit the search to folders or individual contacts.

Default value: Any

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

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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

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

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

SearchField:

Name/Number

Currently not in use.

SearchFilter:

All/Rooms/People/Pmr

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.

Default value: All

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.

Tag:

Untagged/Favorite

Limits the search to contacts that have been tagged as favorite or the untagged contacts.

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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] [WebViewId: WebViewId]
```

where

ConnectorId:

IntegerArray (1..2 [4]) *[RoomKit RoomKitMini Board]*

IntegerArray (1..3 [4]) *[CodecPlus Room55 Room70/Room55D DeskMini]*

IntegerArray (1..10 [4]) *[RoomBar RoomBarPro CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro BoardPro BoardProG2]*

IntegerArray (1..9 [4]) *[RoomKitEQX CodecEQ]*

IntegerArray (1..4 [4]) *[Desk]*

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/WebView/1/2 *[RoomKit RoomKitMini Board]*

None/AirPlay/Miracast/Remote/WebView/1/2/3 *[CodecPlus Room55 Room70/Room55D DeskMini]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5 *[RoomBar DeskPro BoardPro]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6 *[RoomBarPro BoardProG2]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6/7/8/9 *[RoomKitEQX CodecEQ]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4 *[Desk]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6/7/8/9/10/11 *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

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.

DirectShare: For future use.

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.

WebView: Allows content from a web view to be used as the video source for presentation.

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

WebViewId:

Integer (0..65534)

The unique ID for the Web View.

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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] [WebViewId: WebViewId]
```

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/WebView/1/2 *[RoomKit RoomKitMini Board]*

None/AirPlay/Miracast/Remote/WebView/1/2/3 *[CodecPlus Room55 Room70/Room55D DeskMini]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5 *[RoomBar DeskPro BoardPro]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6 *[RoomBarPro BoardProG2]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6/7/8/9 *[RoomKitEQX CodecEQ]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4 *[Desk]*

None/AirPlay/Miracast/Remote/WebView/1/2/3/4/5/6/7/8/9/10/11 *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

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.

DirectShare: For future use.

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.

WebView: Allows content from a web view to be used as the video source for presentation.

WebViewId:

Integer (0..65534)

The unique ID for the Web View.

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.

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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 Pin: "Pin" [Profile:
"Profile"] UserId: "UserId"
```

where

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.

UserId:

String (1, 255)

A valid username, as set up in CUCM.

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 BoardProG2

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/Standard/PresenterAndAudience *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 BoardProG2]*

Classroom/Standard/PresenterAndAudience *[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.

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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.

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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
```

RemoteAccess commands

xCommand RemoteAccess EndSession

Applies to: All products

Requires user role: ADMIN

Ends the active remote access session. Remote access is used to control Cisco devices remotely to troubleshoot and support via Control Hub or Web Interface.

USAGE:

```
xCommand RemoteAccess EndSession
```


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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:

Whiteboards/WebData/TemporaryAccounts

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.

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.

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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

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xCommand Security Certificates CSR Create

Applies to: All products

Requires user role: ADMIN

Create a PKCS#10 CSR (Certificate Signing Request) and store the Private Key waiting to be "Linked". The command parameters determine the subject name of the CSR. The output is in PEM-encoded format. Only one CSR/Private Key pair can be active at any given time, so subsequent invocation will overwrite the current pair.

USAGE:

```
xCommand Security Certificates CSR Create CommonName: "CommonName"
[CountryName: "CountryName"] [LocalityName: "LocalityName"] [OrganizationName:
"OrganizationName"] [OrganizationalUnit: OrganizationalUnit] [SanDns: SanDns]
[SanEmail: SanEmail] [SanIp: SanIp] [SanUri: SanUri] [StateOrProvinceName:
"StateOrProvinceName"]
```

where

CommonName:

String (0, 64)

Adds "/CN=" to the CSR Subject Name.

CountryName:

String (0, 2)

Adds "/C=" to the CSR Subject Name.

LocalityName:

String (0, 64)

Adds "/L=" to the CSR Subject Name.

OrganizationName:

String (0, 64)

Adds "/O=" to the CSR Subject Name.

OrganizationalUnit:

StringArray (0, 64 [5])

Adds up to 5 "/OU=" parameters to the CSR Subject Name.

SanDns:

StringArray (0, 64 [5])

Adds up to 5 Dns parameters to the CSR Subject Alternative Name.

SanEmail:

StringArray (0, 64 [5])

Adds up to 5 Email parameters to the CSR Subject Alternative Name.

SanIp:

StringArray (0, 64 [5])

Adds up to 5 Ip parameters to the CSR Subject Alternative Name.

SanUri:

StringArray (0, 64 [5])

Adds up to 5 Uri parameters to the CSR Subject Alternative Name.

StateOrProvinceName:

String (0, 64)

Adds "/ST=" to the CSR Subject Name.

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.

USAGE:

```
xCommand Security Certificates CSR Link
```

xCommand Security Certificates CUCM CTL Delete

Applies to: All products

Requires user role: ADMIN

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
```


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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/HTTPS/Audit/SIP/Pairing/WebexIdentity/HttpClient/HttpProxy

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.

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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/HTTPS/Audit/SIP/Pairing/WebexIdentity/HttpClient/HttpProxy

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 Enrollment Profiles Delete

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Deletes an enrollment profile to no longer renew certificates.

USAGE:

```
xCommand Security Certificates Services Enrollment Profiles 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 Enrollment Profiles List

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Lists Enrollment profiles for certificate renewal.

USAGE:

```
xCommand Security Certificates Services Enrollment Profiles List
```

xCommand Security Certificates Services Enrollment SCEP Profiles Set

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Creates a profile to renew a certificate using SCEP.

USAGE:

```
xCommand Security Certificates Services Enrollment SCEP Profiles Set
Fingerprint: "Fingerprint" URL: "URL"
```

where

Fingerprint:

String (0, 128)

The CA Fingerprint used to verify the signer of the certificates to be renewed.

URL:

String (0, 256)

The SCEP server URL where the renewal requests will be sent.

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xCommand Security Certificates Services Enrollment SCEP Request

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Sends a CSR to a given SCEP server for signing. The CSR SubjectName parameters will be constructed in the following order: C, ST, L, O, OUs, CN.

USAGE:

```
xCommand Security Certificates Services Enrollment SCEP Request
[ChallengePassword: "ChallengePassword"] CommonName: "CommonName"
[CountryName: "CountryName"] Fingerprint: "Fingerprint" [LocalityName:
"LocalityName"] [OrganizationName: "OrganizationName"] [OrganizationalUnit:
OrganizationalUnit] [SanDns: SanDns] [SanEmail: SanEmail] [SanIp: SanIp]
[SanUri: SanUri] [StateOrProvinceName: "StateOrProvinceName"] URL: "URL"
```

where

ChallengePassword:

String (0, 256)

OTP or Shared Secret from the SCEP Server for access to sign.

CommonName:

String (0, 64)

Adds "/CN=" to the CSR Subject Name.

CountryName:

String (0, 2)

Adds "/C=" to the CSR Subject Name.

Fingerprint:

String (0, 128)

CA Certificate Fingerprint that will sign the SCEP request CSR.

LocalityName:

String (0, 64)

Adds "/L=" to the CSR Subject Name.

OrganizationName:

String (0, 64)

Adds "/O=" to the CSR Subject Name.

OrganizationalUnit:

StringArray (0, 64 [5])

Adds up to 5 "/OU=" parameters to the CSR Subject Name.

SanDns:

StringArray (0, 64 [5])

Adds up to 5 Dns parameters to the CSR Subject Alternative Name.

SanEmail:

StringArray (0, 64 [5])

Adds up to 5 Email parameters to the CSR Subject Alternative Name.

SanIp:

StringArray (0, 64 [5])

Adds up to 5 Ip parameters to the CSR Subject Alternative Name.

SanUri:

StringArray (0, 64 [5])

Adds up to 5 Uri parameters to the CSR Subject Alternative Name.

StateOrProvinceName:

String (0, 64)

Adds "/ST=" to the CSR Subject Name.

URL:

String (0, 256)

The URL address of the SCEP server.

xCommand Security Certificates Services Enrollment SCEP Renewal Request

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Renew a certificate with the given SCEP server.

USAGE:

```
xCommand Security Certificates Services Enrollment SCEP Renewal Request
CAFingerprint: "CAFingerprint" CertFingerprint: "CertFingerprint" URL: "URL"
```

where

CAFingerprint:

String (0, 128)

CertFingerprint:

String (0, 128)

URL:

String (0, 256)

The URL address of the SCEP server.

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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/HTTPS/Audit/SIP/Pairing/WebexIdentity/HttpClient/HttpProxy

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
```


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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/AirGap

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.

AirGap: Shows the list of additional CA certificates required when device is deployed in an AirGapped environment.

Format:

PEM/Text

Specifies the format of the listed certificates, PEM (Privacy Enhanced Mail) or plain text.

Default value: Text

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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:

Internal/External

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.

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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 CallHistory: CallHistory Configurations:
Configurations ConfirmAndReboot: ConfirmAndReboot DHCP: DHCP InternalLogging:
InternalLogging LocalPhonebook: LocalPhonebook
```

where

CallHistory:

NonPersistent/Persistent

In non-persistent mode call history is deleted when the device reboots.

Configurations:

NonPersistent/Persistent

In non-persistent mode, all configurations are set back to default when the device reboots.

ConfirmAndReboot:

Yes

Reboots the device.

DHCP:

NonPersistent/Persistent

In non-persistent mode all IP related information 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.

xCommand Security Session Get

Applies to: All products

Requires user role: ADMIN, AUDIT, INTEGRATOR, PAIREDUSER, ROOMCONTROL, TOUCHUSER, 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.

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SerialPort commands

xCommand SerialPort PeripheralControl Send

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 RoomPanorama/Room70Panorama 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.

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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.

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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:

LocalSetup/Network/Webex/Provisioning/SerialPort/Certificates/HTTP/RemoteSupportUser

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

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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/WaitForUpgrade
Select Shutdown or NoAction to override the default behavior (Restart).
WaitForUpgrade: the device waits for up to 20 minutes for the software upgrade to complete before rebooting to complete reset.

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:

Encryption/MultiSite/RemoteMonitoring/DeveloperPreview *[RoomKit RoomKitMini RoomBar CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board]*

AVIntegrator/Encryption/MultiSite/RemoteMonitoring/DeveloperPreview *[RoomBarPro RoomKitEQX CodecEQ BoardPro BoardProG2]*

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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:

CODECPRO/ROOM70S/ROOM70D *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

ROOMKITEQ/ROOMKITEQX *[RoomKitEQX CodecEQ]*

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
```


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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, TOUCHUSER

Initiate a software upgrade by fetching the software from a given URL.

USAGE:

```
xCommand SystemUnit SoftwareUpgrade [Forced: Forced] URL: "URL"
```

where

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

URL:

String (0, 1024)

The URL to the software package location.

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, PAIREDUSER, ROOMCONTROL, TOUCHUSER, 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
```


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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 [Day: Day] [Hour: Hour] [Minute: Minute] [Month:
Month] [Second: Second] [Year: Year]
```

where

Day:

Integer (1..31)

Hour:

Integer (0..23)

Minute:

Integer (0..59)

Month:

Integer (1..12)

Second:

Integer (0..59)

Year:

Integer (2015..2100)

UserInterface commands

xCommand UserInterface Accessibility ScreenReader Set

Applies to: All products

Requires user role: ADMIN

Enables or disables the screen reader.

USAGE:

```
xCommand UserInterface Accessibility ScreenReader Set Mode: Mode
```

where

Mode:

On/Off

On: Enables the screen reader.

Off: Disables the screen reader.

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
```


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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/SchedulerBranding/SchedulerBackground/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 [Checksum: "Checksum"] [ChecksumType: ChecksumType] [CustomId: "CustomId"] Type: Type URL: "URL"
```

where

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/SchedulerBranding/SchedulerBackground/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.

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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.

URL:

String (5, 250)

Specify the URL of the image file. URL must be the first parameter.

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/SchedulerBranding/SchedulerBackground/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.

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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/SchedulerBranding/SchedulerBackground/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/SchedulerBranding/SchedulerBackground/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.

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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/WebApp/WebWidget *[DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Custom/WebWidget *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

Custom: Custom buttons and custom panels are removed. Web apps and web widgtes 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:

On/Off

Off: Do not embed the base64-encoded icons in the XML output.

On: Embed the base64-encoded icons icons in the output.

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

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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.

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xCommand UserInterface Extensions 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

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/WebApp/WebWidget *[DeskPro DeskMini Desk Board BoardPro BoardProG2]*

Custom/WebWidget *[RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

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 [Origin: Origin] PanelId:
"PanelId" [PeripheralId: "PeripheralId"]
```

where

Origin:

OSD/RoomScheduler/Controller

PanelId:

String (0, 255)

The unique identifier of the custom panel, action button, or web app.

PeripheralId:

String (0, 128)

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 [PeripheralId: "PeripheralId"]
[Target: Target]
```

where

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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 [PageId: "PageId"] PanelId:
"PanelId" [PeripheralId: "PeripheralId"] [Target: Target]
```

where

PageId:

String (0, 255)

The unique identifier of a page on a custom panel.

PanelId:

String (0, 255)

The unique identifier of the custom panel or web app.

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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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 botton, or web app, that has the given PanelId. Successful changes are immediately visible on the device.

USAGE:

```
xCommand UserInterface Extensions Panel Update [Color: "Color"] [Icon: Icon]
[IconId: "IconId"] [Location: Location] [Mode: Mode] [Name: "Name"] PanelId:
"PanelId" [Visibility: Visibility]
```

where

Color:

String (0, 255)

The color of the button in hexadecimal notation (for example, #4287f5).

Icon:

Briefing/Camera/Concierge/Disc/Handset/Help/Helpdesk/Home/Hvac/Info/Input/Language/Laptop/Lightbulb/Media/Microphone/Power/Proximity/Record/Spark/Tv/Webex/General/Custom

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:

HomeScreen/CallControls/HomeScreenAndCallControls/ControlPanel/RoomScheduler/Hidden

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.

Mode:

Fullscreen/Modal

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Name:

String (0, 255)

The new name of the custom panel, action button, or web app.

PanelId:

String (0, 255)

The unique identifier of the custom panel, action button, or web app.

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] [Mode: Mode] Name: "Name" [PanelId: "PanelId"] URL: "URL"
```

where

Location:

HomeScreen/CallControls/HomeScreenAndCallControls/ControlPanel/RoomScheduler/Hidden

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.

Mode:

Fullscreen/Modal

Name:

String (0, 40)

The name of the web app, as it will appear on the user interface.

PanelId:

String (0, 255)

The unique identifier of the web app.

URL:

String (0, 2048)

The web app URL.

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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 [Origin: Origin]
[PeripheralId: "PeripheralId"] [Type: "Type"] [Value: "Value"] WidgetId:
"WidgetId"
```

where

Origin:

OSD/RoomScheduler/Controller

PeripheralId:

String (0, 128)

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.

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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:

Green/Yellow/Red/Purple/Blue/Orange/Orchid/Aquamarine/Fuchsia/Violet/Magenta/Scarlet/Gold/Lime/Turquoise/Cyan/Off

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 [PeripheralId: "PeripheralId"]
[Target: Target]
```

where

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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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 [Duration: Duration]
[PeripheralId: "PeripheralId"] [Target: Target] 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 Alert Clear command is sent.

Default value: 0

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

Text:

String (0, 255)

The message to be displayed. The <p> and
 HTML tags will result in line breaks as normal; any other tags will appear as plain text.

Title:

String (0, 255)

The title of the message.

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"]
[PeripheralId: "PeripheralId"] [Target: Target]
```

where

FeedbackId:

String (0, 255)

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Prompt Display command.

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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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 [Duration: Duration]
[FeedbackId: "FeedbackId"] [Option.1: "Option.1"] [Option.2: "Option.2"]
[Option.3: "Option.3"] [Option.4: "Option.4"] [Option.5: "Option.5"]
[PeripheralId: "PeripheralId"] [Target: Target] Text: "Text" [Title: "Title"]
```

where

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

FeedbackId:

String (0, 255)

To identify the feedback enter a FeedbackId.

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.

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

Text:

String (0, 255)

Enter the text line to be displayed. The <p> and
 HTML tags will result in line breaks as normal; any other tags will appear as plain text.

Title:

String (0, 255)

The title of the message.

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 [Origin: Origin] [PeripheralId: "PeripheralId"]
```

where

FeedbackId:

String (0, 255)

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Prompt Display command.

OptionId:

Integer (1..5)

The OptionId corresponds to the OptionIds given as possible responses in the UserInterface Message Prompt Display command.

Origin:

OSD/RoomScheduler/Controller

PeripheralId:

String (0, 128)

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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"]
[PeripheralId: "PeripheralId"] [Target: Target]
```

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.

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

xCommand UserInterface Message Rating Display

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL

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 [Duration: Duration]
[FeedbackId: "FeedbackId"] [PeripheralId: "PeripheralId"] [SubmitReceiptText:
"SubmitReceiptText"] [SubmitReceiptTitle: "SubmitReceiptTitle"] [Target:
Target] Text: "Text" [Title: "Title"]
```

where

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

FeedbackId:

String (0, 255)

To identify the feedback enter a FeedbackId.

PeripheralId:

String (0, 128)

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.

Target:

OSD/RoomScheduler/Controller

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Text:

String (0, 128)

Enter the text line to be displayed. The <p> and
 HTML tags will result in line breaks as normal; any other tags will appear as plain text.

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.

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"]
[Origin: Origin] [PeripheralId: "PeripheralId"] [Rating: Rating]
```

where

FeedbackId:

String (0, 255)

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message Rating Display command.

Origin:

OSD/RoomScheduler/Controller

PeripheralId:

String (0, 128)

Rating:

Integer (0..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.

Default value: 0

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"]
[PeripheralId: "PeripheralId"] [Target: Target]
```

where

FeedbackId:

String (0, 255)

The FeedbackId corresponds to the FeedbackId given by the UserInterface Message TextInput Display command.

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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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] [PeripheralId: "PeripheralId"] [Placeholder:
"Placeholder"] [SubmitText: "SubmitText"] [Target: Target] 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.

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

PeripheralId:

String (0, 128)

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.

SubmitText:

String (0, 32)

The text that is shown on the Submit button.

Default value: OK

Target:

OSD/RoomScheduler/Controller

Text:

String (0, 128)

The message that is to be displayed to the user. The <p> and
 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.

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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"]
[Origin: Origin] [PeripheralId: "PeripheralId"] Text: "Text"
```

where

FeedbackId:

String (0, 255)

To identify the feedback enter a FeedbackId.

Origin:

OSD/RoomScheduler/Controller

PeripheralId:

String (0, 128)

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 [PeripheralId: "PeripheralId"]
[Target: Target]
```

where

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

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 [Duration: Duration]
[PeripheralId: "PeripheralId"] [Target: Target] Text: "Text" [X: X] [Y: Y]
```

where

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

PeripheralId:

String (0, 128)

Target:

OSD/RoomScheduler/Controller

Text:

String (0, 140)

The text line to be displayed. The <p> and
 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

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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 Name: "Name" SourceIdentifier: "SourceIdentifier" Type: Type
```

where

ConnectorId:

Integer (1..2) *[RoomKit RoomKitMini Board]*

Integer (1..6) *[RoomBarPro BoardProG2]*

Integer (1..3) *[CodecPlus Room55 Room70/Room55D DeskMini]*

Integer (1..4) *[Desk]*

Integer (1..7) *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Integer (1..5) *[RoomBar DeskPro BoardPro]*

Integer (1..9) *[RoomKitEQX CodecEQ]*

The ID of the device connector that the external switch is connected to.

Name:

String (0, 40)

The name of the input source. This name will be displayed on the user interface.

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.

Type:

camera/PC/mediaplayer/document_camera/other/whiteboard/desktop

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.

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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 [ErrorReason:
"ErrorReason"] SourceIdentifier: "SourceIdentifier" State: State
```

where

ErrorReason:

String (0, 80)

This string is displayed in the user interface share menu, given that the State parameter is set to Error.

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.

xCommand UserInterface ScreenLock AdminInitiateRecovery

Applies to: All products

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
```


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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.

USAGE:

```
xCommand UserInterface WallpaperBundle Clear
```

xCommand UserInterface WallpaperBundle List

Applies to: All products

Requires user role: ADMIN

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 is 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, while 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.

For standard colored devices, meaning that the fabric is light gray, only the Light and Night wallpaper bundles are supported.

The Beige, Blue, Carbon, and Forestgreen wallpaper bundles are only available for the limited edition Desk and Desk minis.

The mountain and canyon wallpaper bundles are only available on Room Panorama setups.

Note that the UserInterface Wallpaper setting must be set to Auto if you want to use wallpaper bundles.

USAGE:

```
xCommand UserInterface WallpaperBundle Set Name: "Name"
```

where

Name:

String (0, 255)

The name of the wallpaper bundle.

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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:

OSD/Controller/PersistentWebApp/RoomScheduler

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:

StringArray (0, 8192 [15])

An HTTP header field. You can add up 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:

OSD/Controller/PersistentWebApp/RoomScheduler

Controller: Open the web page on connected Room Navigator(s).

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.

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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
```


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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/User/Integrator/RoomControl

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.

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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/User/Integrator/RoomControl

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/User/Integrator/RoomControl

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.

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xCommand UserManagement User Passphrase Change

Applies to: All products

Requires user role: ADMIN, AUDIT, INTEGRATOR, PAIREDUSER, ROOMCONTROL, TOUCHUSER, 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" [SecurityAction: SecurityAction]
```

where

NewPassphrase:

String (0, 255)

The passphrase you are changing to (new).

OldPassphrase:

String (0, 255)

The passphrase you are changing from (old).

SecurityAction:

None/InvalidateAllUserSessions

InvalidateAllUserSessions: This action invalidates all active user sessions upon successful passphrase change.

None: No additional action is taken after changing the passphrase.

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"
[SecurityAction: SecurityAction] Username: "Username" [YourPassphrase:
"YourPassphrase"]
```

where

NewPassphrase:

String (0, 255)

The passphrase you are changing to (new).

SecurityAction:

None/InvalidateAllUserSessions

InvalidateAllUserSessions: This action invalidates all active user sessions upon successful passphrase change.

None: No additional action is taken after changing the passphrase.

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.

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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
```


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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/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight/DockLowerLeft/DockCenterLeft

Select one of the predefined positions.

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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 (2..2) *[RoomKit RoomKitMini DeskMini Board]*

Integer (2..3) *[RoomBar RoomBarPro Room55 DeskPro Desk BoardPro BoardProG2]*

Integer (1..3) *[CodecPlus Room70/Room55D]*

Integer (1..4) *[RoomKitEQX CodecEQ]*

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.

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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..3)

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..3) *[RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2]*

Integer (1..1) *[RoomKitMini]*

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.

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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 Miracast Activate

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Enables Miracast on a device. Miracast uses Wi-Fi Direct to establish a direct network connection from your laptop to the Cisco device, allowing you to share content wirelessly. This works both in and out of calls. Making or receiving a call during an active share will disconnect the Miracast session. Once enabled the Miracast icon will appear on the top right of the homescreen, to indicate successful activation.

USAGE:

```
xCommand Video Input Miracast Activate
```

xCommand Video Input Miracast Deactivate

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Disables Miracast on a device.

USAGE:

```
xCommand Video Input Miracast Deactivate
```

xCommand Video Input Miracast PinAttemptsReset

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Resets the number of Miracast validation pin attempts to zero once the limit of ten attempts has been reached.

USAGE:

```
xCommand Video Input Miracast PinAttemptsReset
```


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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:

IntegerArray (1..3 [4]) *[CodecPlus Room55 Room70/Room55D DeskMini]*

IntegerArray (1..6 [4]) *[RoomBarPro BoardProG2]*

IntegerArray (1..5 [4]) *[RoomBar DeskPro BoardPro]*

IntegerArray (1..2 [4]) *[RoomKit RoomKitMini]*

IntegerArray (1..9 [4]) *[RoomKitEQX CodecEQ]*

IntegerArray (1..4 [4]) *[Desk]*

IntegerArray (1..7 [4]) *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

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/AirPlay/Miracast *[CodecPlus Room55 Room70/Room55D DeskMini]*

1/2/3/4/5/6/7/8/AirPlay/Miracast *[RoomBarPro BoardProG2]*

1/2/3/4/5/AirPlay/Miracast *[RoomBar DeskPro BoardPro]*

1/2/AirPlay/Miracast *[RoomKit RoomKitMini]*

1/2/3/4/5/6/7/8/9/AirPlay/Miracast *[RoomKitEQX CodecEQ]*

1/2/3/4/AirPlay/Miracast *[Desk]*

1/2/3/4/5/6/7/8/9/10/11/AirPlay/Miracast *[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 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
```


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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 (0, 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: Not applicable in this software release.

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
```


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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; 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 participanId 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 [ActiveSpeakerIndex:
ActiveSpeakerIndex] [CallId: CallId] ParticipantId: ParticipantId
```

where

ActiveSpeakerIndex:

Integer (0..8)

Sets the index of the active speaker frame on stage.

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:

StringArray (1, 255 [8])

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

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

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 [ActiveSpeakerIndex:
ActiveSpeakerIndex] [CallId: CallId] ParticipantName: ParticipantName
```

where

ActiveSpeakerIndex:

Integer (0..8)

Sets the index of the active speaker frame on stage.

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:

StringArray (1, 255 [8])

You can add up to 4 participantId parameters. Hence, you can move up to 4 participants to the stage.

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xCommand Video Matrix Assign

Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

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..3) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardProG2]*

Integer (1..2) *[RoomKit RoomBar CodecPlus Room70/Room55D BoardPro]*

Choose the output you wish to use for this layout.

RemoteMain:

IntegerArray (1..4 [4])

Add a remote site to the layout.

SourceId:

IntegerArray (1..7 [4]) *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

IntegerArray (1..5 [4]) *[RoomBar BoardPro]*

IntegerArray (1..2 [4]) *[RoomKit]*

IntegerArray (1..9 [4]) *[RoomKitEQX CodecEQ]*

IntegerArray (1..3 [4]) *[CodecPlus Room70/Room55D]*

IntegerArray (1..6 [4]) *[RoomBarPro BoardProG2]*

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 BoardPro BoardProG2

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..3) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardProG2]*

Integer (1..2) *[RoomKit RoomBar CodecPlus Room70/Room55D BoardPro]*

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 BoardPro BoardProG2

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..3) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardProG2]*

Integer (1..2) *[RoomKit RoomBar CodecPlus Room70/Room55D BoardPro]*

The output you are swapping from.

OutputB:

Integer (1..3) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardProG2]*

Integer (1..2) *[RoomKit RoomBar CodecPlus Room70/Room55D BoardPro]*

The output you are swapping to.

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xCommand Video Matrix Unassign

Applies to: RoomKit RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

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..3) *[RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardProG2]*

Integer (1..2) *[RoomKit RoomBar CodecPlus Room70/Room55D BoardPro]*

Choose the output you wish to remove the source from.

RemoteMain:

Integer (1..4)

Remove a remote site from the layout.

SourceId:

Integer (1..7) *[CodecPro Room70G2 RoomPanorama/Room70Panorama]*

Integer (1..5) *[RoomBar BoardPro]*

Integer (1..2) *[RoomKit]*

Integer (1..9) *[RoomKitEQX CodecEQ]*

Integer (1..3) *[CodecPlus Room70/Room55D]*

Integer (1..6) *[RoomBarPro BoardProG2]*

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
```


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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 RoomPanorama/Room70Panorama]*

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: *[Room70/Room55D Room70G2 RoomPanorama/Room70Panorama]*

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/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight/DockLowerLeft/DockCenterLeft

Select one of the predefined positions.

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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, INTEGRATOR, 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 [FullscreenMode: FullscreenMode] [Mode: Mode]
[OnMonitorRole: OnMonitorRole] [PIPPosition: PIPPosition]
```

where

FullscreenMode:

On/Off

Choose between displaying the self-view in full screen or as picture-in-picture.

Mode:

On/Off

Self-view is set to on or off.

OnMonitorRole:

First/Second/Third

Displays self-view on monitors with this role.

PIPPosition:

CenterLeft/CenterRight/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight

Select the position for the self-view image.

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
```


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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/Signage/WebApps/PersistentWebApp/ECM/EmbeddedApp/Kiosk/Integration/WebWidget/WebRTC/Whiteboard

All: Deletes the session data for all web view types.

ECM: Deletes session data related to ECM (Enterprise Content Management) systems.

EmbeddedApp: Deletes session data associated with embedded applications.

Integration: Deletes session data linked to integration applications.

Kiosk: Deletes session data specific to kiosk mode.

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.

WebRTC: Deletes session data for WebRTC sessions.

WebWidget: Deletes session data associated with web widgets.

Whiteboard: Deletes session data related to the whiteboard feature.

Default value: All

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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:

Info/Warning/Error/Fatal/Verbose

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
```


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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:

WebDeveloper/InputLatency/Rendering/JavascriptAndRendering/FrameViewer/Custom

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:

On/Off

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
```


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Webex commands

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:

Host/Panelist/Guest

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 Airgap Prepare

Applies to: All products

Requires user role: ADMIN

Prior to registration, configure the device to be able to connect to air-gapped Webex deployments

USAGE:

```
xCommand Webex Registration Airgap Prepare Confirm: Confirm Domain: "Domain"
```

where

Confirm:

Yes

To confirm your choice of running this command as it will fundamentally change device behavior.

Domain:

String (0, 128)

The domain under which all webex services will attempt to connect to after this command is run. This will be the base domain of your air-gapped Webex instance.

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

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
```


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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

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:

Synchronous/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.

Default value: Synchronous

ActivationCode:

String (0, 128)

The activation code for the device.

RegistrationType:

Manual/Hotdesk/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.

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xCommand Webex Software Upgrade

Applies to: All products

Requires user role: ADMIN, TOUCHUSER

Upgrade the device to the software version the Cloud dictates.

USAGE:

```
xCommand Webex Software Upgrade
```

xCommand Webex Software Validate

Applies to: All products

Requires user role: ADMIN, TOUCHUSER

Runs this command to check that you have the right software version to onboard to RoomOS or to Microsoft Teams Room (MTR).

USAGE:

```
xCommand Webex Software Validate [ExperienceMode: ExperienceMode]
[ValidationType: ValidationType]
```

where

ExperienceMode:

RoomOS/Microsoft_Teams

RoomOS: Check that you have the right software version to onboard to RoomOS.

MicrosoftTeams: Check that you have the right software version to onboard to MTR.

Default value: RoomOS

ValidationType:

PreOnboard/FillMissingSoftware

PreOnboard: Check that you have the right software version to onboard to RoomOS.

FillMissingSoftware: Check that you have the right software version to onboard to MTR.

Default value: PreOnboard

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: "Url"]
```

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

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Type:

MSTeams/GoogleMeet

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 RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR

Cancels an ongoing send to email operation.

USAGE:

```
xCommand Whiteboard Email Cancel
```


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xCommand Whiteboard Email Send

Applies to: RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board 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 [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 [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 [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"] [HostKey: "HostKey"] [MeetingID: "MeetingID"] [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.

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HostKey:

String (0, 255)

The key that is required to join the meeting as host.

MeetingID:

String (0, 255)

The meeting number of the zoom meeting. Typically provided in the calendar invite or in the meeting link.

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

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Chapter 5

xStatus commands

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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.

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Audio status

xStatus Audio Devices Bluetooth ActiveProfile

Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, USER

Shows if a USB handset 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, INTEGRATOR, USER

Shows if a USB handset 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, INTEGRATOR, 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, INTEGRATOR, 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
```


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xStatus Audio Devices HeadsetUSB Description

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, USER

Shows whether the audio channel on an Ethernet connector is muted or not.

Value space of the result returned:

On/Off

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: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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
```


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xStatus Audio Input Connectors Ethernet [n] StreamName

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

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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
```


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xStatus Audio Input Ethernet DiscoveredStream [n] OriginIP

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

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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: RoomBar 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: RoomBar 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: RoomBar 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
```


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xStatus Audio Output Connectors Ethernet [n] StreamName

Applies to: RoomBar 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, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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
```


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xStatus Audio Input Connectors Microphone [n] Mute

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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 Output Connectors USBInterface [n] DelayMs

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, USER

Show the audio delay applied to the USB Interface connector.

Value space of the result returned:

Integer

The delay in milliseconds.

Example:

```
xStatus Audio Output Connectors USBInterface  1 DelayMs
** end
```

xStatus Audio Input LocalInput [n] AGC

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

Requires user role: ADMIN, INTEGRATOR, 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:

String

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, INTEGRATOR, 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:

Integer

Example:

```
xStatus Audio Input LocalInput 1 Channels
*s Audio Input LocalInput 1 Channels: 1
** end
```


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xStatus Audio Input LocalInput [n] Connector [n]

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

Requires user role: ADMIN, INTEGRATOR, 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:

String

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, INTEGRATOR, 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:

String

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, INTEGRATOR, 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:

String

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, INTEGRATOR, 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:

String

Example:

```
xStatus Audio Input LocalInput 1 Mute
*s Audio Input LocalInput 1 Mute: "Off"
** end
```


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xStatus Audio Input LocalInput [n] Name

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

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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:

Integer

Example:

```
xStatus Audio Input RemoteInput 8 CallId
*s Audio Input RemoteInput 8 CallId: 28
** end
```

xStatus Audio Input RemoteInput [n] Role

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

Value space of the result returned:

Main/Presentation/SimultaneousInterpreter

Describes the type of audio stream received by this remote input. Only applicable in call scenarios with multistream audio.

Example:

```
xStatus Audio Input RemoteInput  // Role
*s Audio Input RemoteInput 11 Role: Main
*s Audio Input RemoteInput 12 Role: Presentation
** end
```

xStatus Audio Microphones MusicMode

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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
```


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xStatus Audio Microphones NoiseRemoval

Applies to: All products

Requires user role: ADMIN, INTEGRATOR

Value space of the result returned:

On/Off

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, INTEGRATOR, 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:

True/False

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
```


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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:

On/Off/Manual

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
```


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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

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, INTEGRATOR, 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:

String

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, INTEGRATOR, 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:

Integer

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, INTEGRATOR, 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:

String

Example:

```
xStatus Audio Output LocalOutput 4 Connector
*s Audio Output LocalOutput 4 Connector: "Line.1"
** end
```


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xStatus Audio Output LocalOutput [n] Input [n] Gain

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

Requires user role: ADMIN, INTEGRATOR, 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:

Integer

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, INTEGRATOR, 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:

String

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, INTEGRATOR, 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, INTEGRATOR, 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:

String

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
```


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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, INTEGRATOR, 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:

Integer

Example:

```
xStatus Audio Output RemoteOutput 9 CallId
*s Audio Output RemoteOutput 9 CallId: 28
** end
```


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xStatus Audio Output RemoteOutput [n] Input [n] Gain

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

Requires user role: ADMIN, INTEGRATOR, 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:

Integer

Example:

```
xStatus Audio Output RemoteOutput 9 Input 1 Gain
*s Audio Output RemoteOutput 9 Input 1 Gain: 0
** end
```

xStatus Audio Output RemoteOutput [n] Role

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

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, USER

Value space of the result returned:

Main/Presentation/SimultaneousInterpreter

Designates the audio stream to which the audio from this remote output will be sent. Only applicable in call scenarios with multistream audio.

Example:

```
xStatus Audio Output RemoteOutput  1 Role
*s Audio Output RemoteOutput 16 Role: Main
*s Audio Output RemoteOutput 17 Role: Presentation
** end
```

xStatus Audio SelectedDevice

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro Room55 DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, USER

Shows the ultrasound volume.

Value space of the result returned:

Integer

Example:

```
xStatus Audio Ultrasound Volume
*s Audio Ultrasound Volume: 70
** end
```


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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
```


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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
```


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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:

Integer

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, INTEGRATOR, 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, INTEGRATOR, USER

Shows the volume level of the analog headset.

Value space of the result returned:

Integer

Example:

```
xStatus Audio VolumeHeadsetAnalog
*s 6
** end
```


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xStatus Audio VolumeHeadsetBluetooth

Applies to: RoomBar RoomBarPro DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, USER

Shows whether the device volume is set to mute.

Value space of the result returned:

On/Off

Example:

```
xStatus Audio VolumeMute
*s Audio VolumeMute: Off
** end
```


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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:

Free/FreeUntil/BookedUntil

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
```


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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:

Answered/Autoanswered/Ignored/Unanswered

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:

Audio/AudioCanEscalate/ForwardAllCall/Unknown/Video

Example:

```
xStatus Call 27 CallType
*s Call 27 CallType: Video
** end
```


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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:

String

Example:

```
xStatus Call 27 Encryption Type
*s Call 27 Encryption Type: "None"
** end
```


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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:

Integer

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
```


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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:

Unknown/H323/SIP/Spark/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:

Connected/Connecting/Dialling/Disconnecting/EarlyMedia/Idle/OnHold/Preserved/RemotePreserved/Ringing

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
```


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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/User1/User2/User3

Image1 - Image6: 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/Monochrome/Hdmi/UsbC/Image

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, ROOMCONTROL, USER

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 HDMI connector number the camera has detected it is connected to, or shows 0 if no HDMI connector number is detected.

Value space of the result returned:

Integer

Example:

```
xStatus Cameras Camera 1 DetectedConnector
*s Cameras Camera 1 DetectedConnector: 1
** end
```


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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:

On/Off

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, ROOMCONTROL, USER

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:

Default/Wide/Center/Left/Right/Tele

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
```


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xStatus Cameras Camera [n] MacAddress

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

Shows the current focus position of the camera. The value range depends on camera type.

Value space of the result returned:

Integer

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, ROOMCONTROL, USER

Shows which camera lens is currently being used. The value range depends on camera type.

Value space of the result returned:

Default/Wide/Center/Left/Right/Tele

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, ROOMCONTROL, USER

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:

Integer

Example:

```
xStatus Cameras Camera 1 Position Pan
*s Camera 1 Position Pan: 412
** end
```


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xStatus Cameras Camera [n] Position Roll

Applies to: RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/Room70Panorama

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

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:

Integer

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, ROOMCONTROL, USER

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:

Integer

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, ROOMCONTROL, USER

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:

Integer

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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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
```


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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:

True/False

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, ROOMCONTROL, USER

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
```


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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, ROOMCONTROL, USER

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 Behavior Active

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Indicates the currently active speaker track behavior.

Value space of the result returned:

BestOverview/Closeup/Combined/Desktop/Frames/GroupAndSpeaker/Manual

Example:

```
xStatus Cameras SpeakerTrack Behavior Active
** end
```

xStatus Cameras SpeakerTrack Closeup 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

Indicates the current status of the SpeakerTrack feature's close-up functionality.

Value space of the result returned:

Active/Inactive

Active: The SpeakerTrack close-up feature is active.

Inactive: The SpeakerTrack close-up feature is not in use.

Example:

```
xStatus Cameras SpeakerTrack Closeup Status
** end
```


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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:

Off/Unavailable/Available

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:

Off/BestOverview/Closeup/Whiteboard/Frames

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, ROOMCONTROL, USER

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
```


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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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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, ROOMCONTROL, USER

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
```


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xStatus Cameras Stereoscopic Calibrated

Applies to: RoomBarPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

Value space of the result returned:

True/False

Whether the cameras have been calibrated for stereoscopic 3D.

Example:

```
xStatus Cameras Stereoscopic Calibrated
*s Cameras Stereoscopic Calibrated: True
** end
```

xStatus Cameras Stereoscopic Status

Applies to: RoomBarPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, ROOMCONTROL, USER

The current stereoscopic 3D stream status.

Value space of the result returned:

Off/Sending/Muted

Example:

```
xStatus Cameras Stereoscopic Status
*s Cameras Stereoscopic Status: Sending
** 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:

Integer

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:

Integer

Example:

```
xStatus Capabilities Conference MaxCalls
*s Capabilities Conference MaxCalls: 3
** end
```


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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
```


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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:

None/HostPinOrGuest/HostPinOrGuestPin/AnyHostPinOrGuestPin/PanelistPin/PanelistPinOrAttendeePin/PanelistPinOrAttendee/GuestPin

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
```


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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 withing the meeting.
Unavailable: You cannot disable reactions withing 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:

True/False

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
```


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xStatus Conference Call [n] Capabilities EmergencyCallCapability

Applies to: All products

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:

True/False

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:

Enabled/Disabled/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

Requires user role: ADMIN, USER

Not applicable in this release.

Value space of the result returned:

On/Off

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:

Integer

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:

Integer

Example:

```
xStatus Conference Call 2 Capabilities FECC NumberOfSources
*s Conference Call 2 Capabilities FECC NumberOfSources: 5
** end
```


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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:

True/False

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

Requires user role: ADMIN, USER

Not applicable in this release.

Value space of the result returned:

Active/Failed/Off

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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:

Unavailable/Lock/Unlock

Lock: You can 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:

Enabled/Disabled/NotApplicable

Enabled: You can 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

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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:

Enabled/Disabled/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:

Enabled/Disabled/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
```


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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:

Enabled/Disabled/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
```


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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
```


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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:

Enabled/Disabled/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:

True/False

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:

On/Off

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
```


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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:

True/False

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:

Unknown/GoogleMeet/MSTeams/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:

True/False

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:

True/False

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
```


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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/Raised/Lowered

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 Confernce 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
```


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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 Confernce 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
```


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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/Share/InstantMeeting

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=b3
a9603e7aef6f2e6a818c815307c4f1"
** 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:

True/False

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:

True/False

Example:

```
xStatus Conference Call 2 Transcoded
*s Conference Call 2 Transcoded: False
** end
```


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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
```


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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
```


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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
```


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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
```


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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
```


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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
```


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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:

True/False

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
```


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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:

True/False

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:

Private/Shared

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/Spark/Off

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:

True/False

False: People focus is currently active.

True: People focus is currently inactive.

Example:

```
xStatus Conference PeopleFocus Active
*s Conference PeopleFocus Active: True
** end
```


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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:

True/False

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, ROOMCONTROL, USER

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
```


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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/Receiving/Sending

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:

On/Off

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/Auto

Example:

```
xStatus Conference SelectedCallProtocol
*s Conference SelectedCallProtocol: SIP
** end
```


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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:

Auto/Manual

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:

Critical/Error/Warning/Info

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
```


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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:

AirPlayBeacon/AirPlayProvisioning/AirPlayProvisioningCertificates/CAPFOperationState/CTLinstallation/CUCMVendorConfigurationFile/CallProtocolDualStackConfig/CallProtocolIPStackPlatformCompatibility/CallProtocolVcsProvisioningCompatibility/CameraId/CameraPairing/CameraPlacementCalibration/CameraSerial/CameraSoftwareVersion/CameraStatus/CameraDetected/CertificateExpiry/CertificateRenewedRebootRequired/ConfigurationFile/DefaultCallProtocolRegistered/DuplicateAddressDetection/EthernetDuplexMatches/FanStatus/PresenterTrack/H323GatekeeperStatus/H323EncrAes256AndDHSize/HasValidReleaseKey/IpCameraStatus/IPv4Assignment/IPv6Assignment/IPv6Mtu/ITLinstallation/InvalidSIPTransportConfig/LinkLayerDiscoveryConfiguration/LockedDeviceCompanionMode/LockedDeviceHotdeskWorkspaceMode/LockDown/RoomControl/MediaBlockingDetected/MacrosProvisioningStatus/MacrosRuntimeResponsiveness/MacrosRuntimeActive/MacrosRuntimeStopped/MacrosRuntimeHasHadCrash/MacrosErrorLoggedInConsole/MacrosJsError/MacrosCommonJsDeprecation/MacrosDuktapeIsDeprecated/MacrosTranspilationIsDeprecated/MicrosoftTeamsRunningLocal/MicrosoftTeamsRunningRemote/NavigatorDeviceLocationConfiguration/NetLinkStatus/NetSpeedAutoNegotiated/NTPStatus/OSDVideoOutput/OutputConnectorLocations/PeripheralSoftwareUnknownType/PeripheralTypeTouch10NoLongerSupported/PeripheralSoftwareVersion/PIILoggingMode/ProvisioningDeveloperOptions/ProvisioningModeAndStatus/ProvisioningStatus/SoftwareReleaseRemark/SIPCertificateVerificationMode/SIPEncryption/SIPProfileRegistration/SIPProfileType/SelectedVideoInputSourceConnected/SipIceAndAnatConflict/SIPListenPortAndRegistration/StandbyCtrlOfficeHoursConfiguration/StereoscopicInsufficientBandwidth/StereoscopicNotCalibrated/TCPMediaFallback/TemperatureCheck/TLSVerifyRequiredCerts/TouchPanelConnection/USBCameraConnection/ControlSystemConnection/MediaPortRangeNegative/MediaPortRangeTooSmall/MediaPortRangeOdd/MediaPortRangeValueSpace/MediaPortRangeOverlap/VideoPortRangeNegative/VideoPortRangeTooSmall/VideoPortRangeOdd/VideoPortRangeValueSpace/UltrasoundConfigSettings/UltrasoundSpeakerAvailability/ValidPasswords/VideoFromInternalCamera/VideoInputStability/VideoInputSignalQuality/WebexEdgeAccountPlusProvModeWebex/WebexAccountPlusWebexEdgeEnabled/WebexEdgeAccountPendingCloudRegistration/ProvModeWebexAndWebexEdgeEnabled/WebexConnectivity/WebexAccountLinking/WebexOffline/WebexAudioProximityConnectivity/WebexUsbcProximityConnectivity/WebexQRCodeProximityConnectivity/WebexLyraConnectivity/WhiteboardAppServiceConnectivity/WebexNotificationConnectivity/WebexActivationRequired/WebexShouldUpgradeCeSoftware/WebexMustUpgradeCeSoftware/SpeakerTrackFrontPanelMountedCorrectly/SpeakerTrackMicrophoneConnection/SpeakerTrackVideoInputs/SpeakerTrackEthernetConnection/ANATOnVCS/RoomSchedulingConfiguration/ECReferenceDelay/AudioPairingNoise/AudioPairingRate/AudioPairingSNR/

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*AudioPairingInterference/AudioPairingTokenDecode/AudioInternalSpeakerDisabled/
CeilingMicPlacementNotCalibrated/HasActiveCallProtocol/
SipOrH323ButNotBothEnabled/PresentationSourceSelection/SoftwareUpgrade/
SoftwareUpgradeKeepsFailing/PlatformSanity/ContactInfoMismatch/
MicrophoneMuteOverride/FirstTimeWizardNotCompleted/CaptivePortalDetected/
MonitorDelay/WifiCARequired/WifiRadioQuality/MicrophonesConnected/
MicrosoftTeamsSignedInLocal/MicrosoftTeamsSignedInRemote/
MicrosoftTeamsPairing/HdmiCecModeNoSound/MicrophoneOverloaded/
EthernetMicrophonesProfileCheck/AnalogMicrophonesProfileCheck/
UsbMicrophonesProfileCheck/DigitalMicrophonesAmountCheck/HTTPFeedbackFailed/
HTTPSModeSecurity/PersistentWebAppTerminatedUnexpectedly/
PersistentWebAppTerminatedByOutOfMemory/
PersistentWebAppFailedToLoad/SignageTerminatedUnexpectedly/
SignageTerminatedByOutOfMemory/SignageFailedToLoad/
WebWidgetTerminatedUnexpectedly/WebWidgetTerminatedByOutOfMemory/
WebWidgetFailedToLoad/EmbeddedWebViewTerminatedUnexpectedly/
EmbeddedWebViewTerminatedByOutOfMemory/EmbeddedWebViewFailedToLoad/
KioskWebViewTerminatedByOutOfMemory/KioskWebViewStatus/
KioskWebViewPageLoadStatus/KioskURLConfiguration/
KioskWebEngineModeConfiguration/KioskSettingsMenuLockConfiguration/
CompanionModeIncompatibilityLocal/CompanionModeIncompatibilityMSTeams/
CompanionModeIncompatibilityRemote/AmplifierDetection/
CurrentNetworkQuality/AmplifierFanStatus/LowBattery/StylusBattery/
PeripheralSoftwareUpgrade/MissingDisplay/MissingThirdDisplay/PanoramaView/
PanoramaCameraHdmi/WebRTCCalling/CUCMAndCloudConfigurability/
CUCMRemoteExtensionMobility/DeveloperPreview/MonitorFirmwareVersion/
NetworkAdminRemoteaccessConfigured/NetworkSwitch/CloudConfigurationWriteback/
CloudConfigurationBulkWriteback/WirelessConnectionStatus/
MicrophonePower/DigitalMicrophoneStatus/CallProtocolInvalidCloudProv/
NetworkConnectivity/InternalXapiUsage/InternalXapiAccessDenied/USBMicType/
USBInterfaceType/USBAudioDeviceError/MiracastWiFiCoexistenceStatus/
MiracastWpsPinLocked/BluetoothHardware/CloudAwareConfigInvalid/
WirelessCharging/USBCameraMode/SoftwareUpgradeAvailability/
SoftwareUpgradeCompatibility/SoftwareUpgradeProvider/HotdeskConfiguration/
PersistentWebAppURLConfiguration/PersistentWebAppWebEngineModeConfiguration/
PersistentWebAppAllowedHostConfiguration/RoomSchedulerModeConfiguration/
XapiApiKeyWebsocketHttpsDisabled/HotdeskKioskExclusivity/
HotdeskCompanionModeExclusivity/HotdeskSignInNotConfigured/
HotdeskNonJoinableMeetingConfiguration/HttpProxyStatus/
CallHistoryConfiguration/CapsetFilterConfiguration/PoEStatus/
ThousandEyesStatus/WebRTCWebViewTerminatedUnexpectedly/
WebRTCWebViewTerminatedByOutOfMemory/InstantMeetingConfiguration/
TouchDeviceRunningMTRMemoryStatus/CheckInConfigurationPersonalProvisioning/
CheckInHotdeskExclusivity/SmtpServiceConfiguration/WebexProvisionalAccountStatus/
ThirdPartyAppDownloadFailed/WebexCallingProvisioning/AndroidOSVersion/
DeepSleepSettingOverriddenByToggle/CviCrossTenantStatus*

Example:

```
xStatus Diagnostics Message Type
*s Diagnostics Message 1 Type: CamerasDetected
** end
```


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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
```


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xStatus H323 Gatekeeper Status

Applies to: All products

Requires user role: ADMIN, USER

Shows the gatekeeper registration status.

Value space of the result returned:

Authenticated/Authenticating/Discovered/Discovering/Inactive/Registered/Registering/Rejected/Required

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
```


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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:

String

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
```


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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:

On/Off

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:

On/Off

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:

On/Off

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
```


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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/SimultaneousInterpreter

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:

AACLC/AACLD/AMR/CiscoPCM16/LPCM16/L16-768/ComfortNoise/G711A/G711Mu/G722/G7221/G7221C/G723_1/G728/G729/G729A/G729AB/Off/Opus/Raw

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
```


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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
```


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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

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

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
```


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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/SimultaneousInterpreter

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
```


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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:

Unknown/Motion/Freeze/Sharpness

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/AV1/JPEG/MP4V/Off/Raw/RDP

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
```


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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
```


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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/LPCM16/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] EncryptionType

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

The encryption type for the direct share channel.

Value space of the result returned:

None/AES-128/AES-256/AES-128-GCM/AES-256-GCM

Example:

```
xStatus MediaChannels DirectShare  1 Channel  1 EncryptionType
** 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
```


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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
```


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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] Type

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Media statistics for presentation that is shared directly between a PC and the codec

Value space of the result returned:

Audio/Video/Data

Example:

```
xStatus MediaChannels DirectShare  1 Channel  1 Type
 ** 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
```


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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
```

xStatus MediaChannels Miracast [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 when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Audio Channels
** end
```


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xStatus MediaChannels Miracast [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 compression standard when sharing with Miracast. Off is shown when no audio is present in the MPEG-2 Transport Stream.

Value space of the result returned:

AACLC/AACLD/AMR/CiscoPCM16/LPCM16/L16-768/ComfortNoise/G711A/G711Mu/G722/G7221/G7221C/G723_1/G728/G729/G729A/G729AB/Off/Opus/Raw

AACLC : AAC-LC is a specific profile within the AAC format, optimized for lower computational complexity and broad compatibility.

AACLD: The AAC-LD is an MPEG-4 Low Delay Audio Coder audio compression format.

AMR: Adaptive Multi-Rate Codec.

CiscoPCM16

ComfortNoise: Synthetic background noise used in radio and wireless communications to fill the artificial silence in a transmission.

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.

L16-768

LPCM16

Off: No audio.

Opus: Opus is a royalty-free IETF standard for audio compression.

Raw

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Audio Protocol
** end
```

xStatus MediaChannels Miracast [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 of a specific channel when sharing with Miracast.

Value space of the result returned:

On/Off

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Encryption
** end
```

xStatus MediaChannels Miracast [n] Channel [n] EncryptionType

Applies to: All products

Not available for the Webex Devices Cloud xAPI service on personal mode devices.

Requires user role: ADMIN, USER

Shows the type of encryption for a specific channel when sharing with Miracast.

Value space of the result returned:

None/AES-128/AES-256/AES-128-GCM/AES-256-GCM

Always none.

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 EncryptionType
** end
```

xStatus MediaChannels Miracast [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

The number of Bytes received for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat Bytes
** end
```


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xStatus MediaChannels Miracast [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 number of bitrate of compressed stream of a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat ChannelRate
** end
```

xStatus MediaChannels Miracast [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 RTP packet jitter of a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat Jitter
** end
```

xStatus MediaChannels Miracast [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

Show the number of RTP packets lost in last time interval for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat LastIntervalLost
** end
```

xStatus MediaChannels Miracast [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 RTP packets received in the last time interval for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat LastIntervalReceived
** end
```

xStatus MediaChannels Miracast [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

Show the number of RTP packets lost for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat Loss
** end
```

xStatus MediaChannels Miracast [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 max RTP packet jitter for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat MaxJitter
** end
```


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xStatus MediaChannels Miracast [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 RTP packets received for a specific channel when sharing with Miracast.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Netstat Packets
** end
```

xStatus MediaChannels Miracast [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 framerate in Hz of a decoded Miracast video stream for a specific channel.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Video FrameRate
** end
```

xStatus MediaChannels Miracast [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 Miracast video compression standard in use. Only H264 is supported currently.

Value space of the result returned:

H261/H263/H263p/H263pp/H264/HEVC/AV1/JPEG/MP4V/Off/Raw/RDP

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Video Protocol
** end
```

xStatus MediaChannels Miracast [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 of a decoded Miracast video stream.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Video ResolutionX
** end
```

xStatus MediaChannels Miracast [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 of a decoded Miracast video stream.

Value space of the result returned:

Integer

Example:

```
xStatus MediaChannels Miracast  1 Channel  1 Video ResolutionY
** end
```


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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:

True/False

False: Not in a call.

True: In a call.

Example:

```
xStatus MicrosoftTeams Calling InCall
*s MicrosoftTeams Calling InCall: False
** end
```

xStatus MicrosoftTeams CVI CrossTenant

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 DeskPro BoardPro BoardProG2

Requires user role: ADMIN, USER

Shows if the cross-tenant functionality is enabled or disabled.

Value space of the result returned:

Enabled/Disabled

Disabled: the cross-tenant functionality is disabled.

Enabled: the cross tenant functionality is enabled.

Example:

```
xStatus MicrosoftTeams CVI CrossTenant
** 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
```


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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
```


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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
```


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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
```


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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:

True/False

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 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
```


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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 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
```


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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:

True/False

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
```


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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
```


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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
```


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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, INTEGRATOR

Shows the Ethernet speed in Mbps. The speed can be in full-duplex or half-duplex.

Value space of the result returned:

String

Example:

```
xStatus Network 1 Ethernet Speed
*s Network 1 Ethernet Speed: "100full"
** end
```

xStatus Network [n] FQDN

Applies to: All products

Requires user role: ADMIN, USER

The fully qualified domain name of the device

Value space of the result returned:

String

Example:

```
xStatus Network  1 FQDN
** 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/Connected/AuthFailed/Failed/Off/Other

Describes the authentication state.

Example:

```
xStatus Network  1 IEEE8021X Status
** end
```


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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:DB8:0000:0000:0000:0000:0000:0001"
** end
```


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xStatus Network [n] LLDP Chassis ID

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns the identifier of the switch where the device is connected.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP Chassis ID
** end
```

xStatus Network [n] LLDP Chassis IDType

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns the type of identifier used in the Chassis ID.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP Chassis IDType
** end
```

xStatus Network [n] LLDP Duplex

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Indicates the status (duplex configuration) of the LLDP broadcast interface. Used by network operators to diagnose connectivity problems between adjacent network elements.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP Duplex
** end
```

xStatus Network [n] LLDP Port ID

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

This status returns the port identification (Port ID) of the network switch to which the device is connected.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP Port ID
** end
```

xStatus Network [n] LLDP Port IDType

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns the type of identifier used in the Port IDType.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP Port IDType
** end
```

xStatus Network [n] LLDP PrimaryMgmtAddress

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns the management address used to configure and monitor the switch that the device is connected to.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP PrimaryMgmtAddress
** end
```


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xStatus Network [n] LLDP SysDescr

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns information about the software release version that the switch is running.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP SysDescr
** end
```

xStatus Network [n] LLDP SysName

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Returns the system name as configured in the switch that the device is connected to.

Value space of the result returned:

String

Example:

```
xStatus Network  1 LLDP SysName
** end
```

xStatus Network [n] LLDP VoiceVlanID

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

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  1 LLDP VoiceVlanID
** 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:

String

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 ProfileID

Applies to: All products

Requires user role: ADMIN, USER

Shows the ProfileID of the current connection.

Value space of the result returned:

String

Example:

```
xStatus Network 1 Wifi ProfileID
*s Network 1 Wifi ProfileID: "Aurora"
** 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
```


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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:

True/False

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
```


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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
```


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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:

Open/Personal/Enterprise/Unsupported

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
```


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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:

Connecting/Associating/Associated/Connected/Disconnected/AuthFailed/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
```


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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:

Open/Wpa2-psk/Wpa2-eap-fast/Wpa2-eap-peap/Wpa2-eap-tls/Wpa2-eap-ttls

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
```


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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
```


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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:

NotSet/InsideRoom/OutsideRoom

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:

NotSet/Controller/Scheduler/PersistentWebApp

Example:

```
xStatus Peripherals ConnectedDevice 1007 Role
*s Peripherals ConnectedDevice 1007 Role: Controller
** end
```


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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:

Integer

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
```


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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/Unpairing/LostConnection

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/InputDevice/Other/SpeakerTracker/TableExtender/TouchPanel/Headset/RoomScheduler/PersistentWebApp/VideoSwitcher

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
```


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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:

True/False

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:

Present/NotPresent

Present: The stylus is present.

NotPresent: The stylus is not present

Example:

```
xStatus Peripherals Stylus 1 Presence
*s Peripherals Stylus 1 Presence: NotPresent
** end
```


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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
```


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xStatus Provisioning RoomType

Applies to: RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room70/Room55D Room70G2 RoomPanorama/Room70Panorama BoardProG2

Requires user role: ADMIN, USER

Specifies the room type setup configured for this device.

Value space of the result returned:

Briefing/Classroom/Standard/PresenterAndAudience

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
```


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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:

AboutToInstallUpgrade/DownloadDone/DownloadPaused/DownloadPending/ Downloading/Installing/InstallingPeripherals/None/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:

Failed/InProgress/InstallationFailed/None/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
```


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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:

AuthenticationFailed/ConfigError/Failed/Idle/NeedConfig/Provisioning/Provisioned

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 Reason

Applies to: All products

Requires user role: ADMIN, USER

Provides detailed reason text for Webex Calling provisioning failures. This status offers insights into issues preventing successful provisioning, such as missing or incorrect activation or configuration URLs

Value space of the result returned:

String

Describes the specific reason for the provisioning failure.

Example:

```
xStatus Provisioning WebexCalling Reason
** 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/Provisioning/Provisioned

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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
```

RemoteAccess status

xStatus RemoteAccess Availability Reason

Applies to: All products

Requires user role: ADMIN, USER

Value space of the result returned:

Available/Disallowed/Configured/InCall/InCallMtr/PersonalMode/CompanionMode/ScreenShare/BYODLimited

Example:

```
xStatus RemoteAccess Availability Reason
*s RemoteAccess Availability Reason: Configured
** end
```


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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:

True/False

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
```


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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
```


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xStatus RoomAnalytics ReverberationTime LastRun

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 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 MeasurementState

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 provides the current state of reverberation time measurement in a room.

Value space of the result returned:

Empty/Measuring/Measured

Empty: No measurement data is available.

Measured: Reverberation time has been successfully measured, and the data is available.

Measuring: Reverberation time measurement is in progress.

Example:

```
xStatus RoomAnalytics ReverberationTime MeasurementState
** 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
```


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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:

True/False

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:

True/False

False: No T3 alarm is detected.

True: A T3 alarm is detected.

Example:

```
xStatus RoomAnalytics T3Alarm
*s RoomAnalytics T3Alarm Detected: True
** end
```


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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:

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 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
```


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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
```


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Sensors status

xStatus Sensors Radar Mode

Applies to: BoardPro BoardProG2

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
```


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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
```


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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
```


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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/DeepSleep/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.

DeepSleep:

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
```


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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:

True/False

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:

True/False

Example:

```
xStatus SystemUnit Hardware HasWiFi
*s SystemUnit Hardware HasWiFi: True
** end
```


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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, INTEGRATOR, 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, INTEGRATOR, 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
```


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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 XXX XXXXXXXXXXX"
** 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:

True/False

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:

FirstBoot/Unknown/Restart/Shutdown/Upgrade/ModifySecurityPersistency/FactoryReset/ConvertToCloud/Standby

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
```


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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:

Other/RebootRequired/SoftwareUpgradeFailed/SoftwareUpgradeOK

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, INTEGRATOR, 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
```


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xStatus SystemUnit ProductPlatform

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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, INTEGRATOR, 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
```


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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:

True/False

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:

True/False

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: All products

Requires user role: ADMIN, INTEGRATOR, 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:

True/False

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, INTEGRATOR, 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:

True/False

Example:

```
xStatus SystemUnit Software OptionKeys RemoteMonitoring
*s SystemUnit Software OptionKeys RemoteMonitoring: True
** end
```


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xStatus SystemUnit Software ReleaseDate

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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: "ce11.1.2.4.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:

Integer

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:

Integer

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:

Integer

Example:

```
xStatus SystemUnit State NumberOfSuspendedCalls
*s SystemUnit State NumberOfSuspendedCalls: 0
** end
```


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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, INTEGRATOR, 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
```


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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:

Unregistered/Enabled/Disabled/Timeout/Error/NotImplemented

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
```


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UserInterface status

xStatus UserInterface Accessibility ScreenReader Mode

Applies to: All products

Requires user role: ADMIN, USER

Shows if the screen reader is off or on.

Value space of the result returned:

On/Off

Example:

```
xStatus UserInterface Accessibility ScreenReader Mode
** end
```

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. he 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
```


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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
```


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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:

Visible/Hidden

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, TOUCHUSER

This status reports whether the "Mute/Unmute" 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 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:

Enabled/Disabled

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
```


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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, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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
```


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xStatus UserInterface Features Call JoinWebex

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

This status reports whether the Zoom button (for joining Zoom meetings) 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 JoinZoom
*s UserInterface Features Call JoinZoom: Visible
** end
```

xStatus UserInterface Features Call Keypad

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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:

Visible/Hidden

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
```


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xStatus UserInterface Features Call MidCallControls

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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:

Visible/Hidden

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:

Visible/Hidden

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
```


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xStatus UserInterface Features Call Start

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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, TOUCHUSER

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, TOUCHUSER

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 RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

This status reports whether the default Files 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 Files Start
*s UserInterface Features Files Start: Visible
** end
```


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xStatus UserInterface Features Share Start

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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 RoomKitEQX CodecEQ CodecPro DeskPro DeskMini Desk Board BoardPro BoardProG2

Requires user role: ADMIN, INTEGRATOR, TOUCHUSER

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:

Green/Yellow/Red/Purple/Blue/Orange/Orchid/Aquamarine/Fuchsia/Violet/Magenta/Scarlet/Gold/Lime/Turquoise/Cyan/Off

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
```


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xStatus UserInterface ScreenLock Status

Applies to: All products

Requires user role: ADMIN, USER

Reports whether a PIN lock is set for the device.

Value space of the result returned:

Locked/Unlocked/Disabled/Unavailable

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, TOUCHUSER

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
```


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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:

NoError/OutOfMemory/RenderProcessCrashed/CertificateError/ConnectionError/ HttpError/DnsError/OtherError

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] HttpResponseStatusCode

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 HttpResponseStatusCode
*s UserInterface WebView 1 HttpResponseStatusCode: 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
```


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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:

WebApp/Integration/Signage/ECM/ECMSignIn/Kiosk/WebRTCMeeting/EmbeddedApp/PersistentWebApp/WebWidget/Whiteboard/None

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.

Whiteboard: The web view is used for a whiteboard.

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
```


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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/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight/DockLowerLeft/DockCenterLeft

Example:

```
xStatus Video ActiveSpeaker PIPPosition
*s Video ActiveSpeaker PIPPosition: UpperCenter
** end
```

xStatus Video HdmiOutput

Applies to: All products

Requires user role: ADMIN, USER

Indicates the operational status of the HDMI output on the device, showing whether it is currently enabled or disabled.

Value space of the result returned:

Enabled/Disabled

Disabled: The HDMI output is inactive.

Enabled: The HDMI output is active, which means that an extra screen can be connected.

Example:

```
xStatus Video HdmiOutput
** end
```

xStatus Video Input AirPlay Activity

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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:

Idle/PinInPip/Curtain/Settings/Screen/Audio/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
```


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xStatus Video Input AirPlay Status

Applies to: RoomKit RoomKitMini RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPlus CodecPro Room55 Room70/Room55D Room70G2 RoomPanorama/Room70Panorama DeskPro DeskMini Desk Board BoardPro BoardProG2

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:

Off/Stopped/Starting/Active/Disabled/Error

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
```


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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 devise 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:

OK/Unstable/NotFound/DetectingFormat/Unknown/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 identifer 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
```


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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/USBC-DP/HDMI/USB/Ethernet/Unused/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
```


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xStatus Video Input MainVideoSource

Applies to: All products

Requires user role: ADMIN, INTEGRATOR, 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:

1/2/3/4/5/6/7/8/9/10/11/12/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
```


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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:

None/Direct/Infrastructure

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] Availability

Applies to: All products

Requires user role: ADMIN, USER

Indicates the current availability status of the specified video input source [n]. This status helps determine whether the input source is actively in use or idle.

Value space of the result returned:

Idle/Busy

Busy: The video input source is actively in use.

Idle: The video input source is not in use.

Example:

```
xStatus Video Input Source  1 Availability
** 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:

NotFound/OutOfRange/Error/Interlaced/Ok/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
```


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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:

Integer

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:

Integer

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:

Integer

Example:

```
xStatus Video Input Source 1 Resolution Width
*s Video Input Source 1 Resolution Width: 1920
** end
```

xStatus Video Layout ActiveSpeakerOnStage

Applies to: All products

Requires user role: ADMIN, USER

This status shows if the active speaker is on stage.

Value space of the result returned:

True/False

Example:

```
xStatus Video Layout ActiveSpeakerOnStage
** 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
```


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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 Layout LocalStageUpdatesDisallowed

Applies to: All products

Requires user role: ADMIN, USER

When the synchronized stage is active, this status will be true. It indicates that the stage view cannot be updated locally and will align with the host's stage.

Value space of the result returned:

True/False

Example:

```
xStatus Video Layout LocalStageUpdatesDisallowed
** end
```


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xStatus Video Layout SelfOnStage

Applies to: All products

Requires user role: ADMIN, USER

This status notifies the local user that they are part of the stage.

Value space of the result returned:

True/False

Example:

```
xStatus Video Layout SelfOnStage
** end
```

xStatus Video Layout StageActiveSpeakerIndex

Applies to: All products

Requires user role: ADMIN, USER

Represents the active speaker index in the stage layout.

Value space of the result returned:

Integer

Example:

```
xStatus Video Layout StageActiveSpeakerIndex
** end
```

xStatus Video Layout StageControlledByHost

Applies to: All products

Requires user role: ADMIN, USER

This status identifies that the stage is being controlled by the host.

Value space of the result returned:

True/False

Example:

```
xStatus Video Layout StageControlledByHost
** end
```

xStatus Video Layout StageParticipant [n] CallId

Applies to: All products

Requires user role: ADMIN, USER

Identifies the call ID associated with a specific participant [n] that has been added to the stage.

Value space of the result returned:

Integer

Represents the unique identifier (Call ID) for the participant's call.

Example:

```
xStatus Video Layout StageParticipant  1 CallId
** end
```

xStatus Video Layout StageParticipant [n] ParticipantId

Applies to: All products

Requires user role: ADMIN, USER

Displays the participant ID associated with a specific participant [n] that has been added to the stage.

Value space of the result returned:

String

A string value representing the unique identifier (Participant ID) for the participant.

Example:

```
xStatus Video Layout StageParticipant  1 ParticipantId
** end
```


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xStatus Video Monitors

Applies to: All products

Requires user role: ADMIN, USER

Returns the monitor layout mode.

Value space of the result returned:

Dual/DualPresentationOnly/Single/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:

False/True/Unknown

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:

String

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
```


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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 devise 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:

String

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
```


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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:

True/False

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:

True/False

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.

Value space of the result returned:

True/False

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:

True/False

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
```


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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:

True/False

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:

True/False

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:

True/False

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:

True/False

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
```


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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:

True/False

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:

True/False

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:

True/False

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:

True/False

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
```


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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:

False/True/Unknown

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:

Unsupported/Inactive/Unauthenticated/Authenticated

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] HDCP Version

Applies to: All products

Requires user role: ADMIN, USER

Indicates the current version in use on the specified video output connector [n].

Value space of the result returned:

None/HDCP_v1x/HDCP_v2x

HDCP_v1x: The video output connector is using HDCP version 1.x.

HDCP_v2x: The video output connector is using HDCP version 2.x.

None: HDCP is not enabled on the video output connector.

Example:

```
xStatus Video Output Connector [n] HDCP Version
*s Video Output Connector [n] HDCP Version: HDCP _ v1x
** 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/InternalSetup/PresentationOnly/Recorder/Second/Third

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
```


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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:

Integer

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:

Integer

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:

Integer

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
```


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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: "xxxxxxxxx"
** end
```


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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: xxxxxxx
** 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: xxxxxxx
** 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
```


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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:

Disconnected/Connected/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 therby 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
```


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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/LowerLeft/LowerRight/UpperCenter/UpperLeft/UpperRight/DockLowerLeft/DockCenterLeft

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
```


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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:

On/Off

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:

Info/Warning/Error/Fatal/Verbose

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
```


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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:

WebDeveloper/InputLatency/Rendering/JavascriptAndRendering/FrameViewer/Custom/Off

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:

On/Off

Example:

```
xStatus WebEngine Tracing Systrace
*s WebEngine Tracing Systrace: On
** end
```


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Webex status

xStatus Webex Airgap Status

Applies to: All products

Requires user role: ADMIN, USER

Whether the device is configured for air-gapped operation.

Value space of the result returned:

Disabled/Enabled

Example:

```
xStatus Webex Airgap Status
** end
```

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 DevicePersonalization Personalized

Applies to: All products

Requires user role: ADMIN, USER

When a user signs in using a QR code or other methods, their personal account takes over the shared device, temporarily personalizing it for their use.

Value space of the result returned:

True/False

True: Indicates that the device is personalized for the user who has signed in.

False: Indicates that the device remains shared and is not personalized for any specific user.

Example:

```
xStatus Webex DevicePersonalization Personalized
** end
```

xStatus Webex Domain

Applies to: All products

Requires user role: ADMIN, USER

The base domain the device will use to connect to Webex. For confirming the domain configured in “xCommand Webex Registration AirGap Prepare”.

Value space of the result returned:

String

Example:

```
xStatus Webex Domain
** end
```


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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 Provisional Status

Applies to: RoomBar RoomBarPro RoomKitEQX CodecEQ CodecPro Room70G2 RoomPanorama/ Room70Panorama DeskPro DeskMini Desk BoardPro BoardProG2

Requires user role: ADMIN, USER

Whether the provisional activation service for anonymous log reporting and metrics is running and what state it is in.

Value space of the result returned:

Disabled/Error/OK/Trying

Example:

```
xStatus Webex Services Provisional Status
** 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
```


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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
```


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Chapter 6

Command overview

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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 11.32.

Configuration..... 655
Command..... 684
Status..... 704

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)

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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
Apps WallpaperBundles HalfwakeImage	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	-	Web, API	A I U
Audio Ethernet Encryption	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Ethernet SAPDiscovery Address	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Ethernet SAPDiscovery Mode	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
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..4] Level	-	-	-	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..4] Mode	-	-	-	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..4] Pan	-	-	-	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..4] Zone	-	-	-	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	X	-	Web, API	A I
Audio Input Ethernet [n] EchoControl NoiseReduction	-	-	-	X	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	X	-	Web, API	A I
Audio Input HDMI [n] Level	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

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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
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
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 I
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

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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
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 I
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 Direct DelayMs	-	-	-	-	-	-	-	-	-	-	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 ARC [n] Ultrasound	-	-	-	-	-	-	-	-	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 Direct DelayMs	-	-	-	-	-	-	-	-	-	-	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] Equalizer ID	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Ethernet [n] Equalizer Mode	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I

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Audio Output Ethernet [n] Gain	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output Ethernet [n] Level	-	-	-	-	-	-	-	-	-	-	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 Direct DelayMs	-	-	-	-	-	-	-	-	-	-	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 HDMI [n] Ultrasound	-	-	-	-	-	-	-	-	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
Audio Output Line [n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Delay Direct DelayMs	-	-	-	-	-	-	-	-	-	-	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	-	-	-	-	-	Web, API	A I
Audio Output Line [n] Equalizer Mode	-	-	-	-	-	-	-	-	-	-	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 Line [n] Ultrasound	-	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output USBC [n] Mode	-	-	-	-	-	-	-	X	X	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Audio Output USBInterface [n] Delay DelayMs	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output USBInterface [n] Delay Direct DelayMs	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	-	-	-	-	Web, API	A I
Audio Output USBInterface [n] Delay Mode	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	Web, API	A I

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Audio Output USBInterface [n] Mode	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A I
Audio Output USBInterface [n] Ultrasound	-	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	-	-	-	Web, API	A I
Audio Panning Mode	X	X	X	X	X	-	-	-	-	-	-	X	X	X	X	X	X	X	-	Web, API	A I
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 DTMFFeedback	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 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 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 Mode	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
Bluetooth Allowed	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth CustomBeacon Data	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth CustomBeacon Mode	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth Enabled	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bluetooth LEAdvertisementOutputLevel	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
Bookings AdhocBooking BookAhead Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
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	-	Web, API	A
Bookings AllowDecline	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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Bookings CheckIn AutoCheckInDuration	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	-	Web, API	A
Bookings CheckIn WindowDuration	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Bookings DeclinableBookingType	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	-	Web, API	A
Bookings ProtocolPriority	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 USBCXapi	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A
CallHistory Mode	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	-	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	-	Web, API	A I
Cameras Camera [n] Brightness Mode	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Cameras Camera [n] ExcludedArea	-	-	-	-	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

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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
Cameras Camera [n] Mirror	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	Web, API	A I
Cameras Camera [n] PtzAutoFraming	-	-	-	-	-	-	-	X	X	X	X	X	X	X	-	-	-	-	-	Web, API	A U
Cameras Camera [n] Standby Mode	-	-	-	-	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	X	-	-	X	X	-	Web, API	A I
Cameras Camera [n] Whitebalance Compensation Level	-	-	-	-	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 Frames RowConfiguration	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	-	X	-	Web, API	A U
Cameras SpeakerTrack GroupAndSpeaker Mode	-	-	-	-	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

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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
Cameras SpeakerTrack MultiCamera CalibrationMonitoring	-	-	-	-	-	-	-	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
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
Cameras Stereoscopic Mode	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	Web, API	A 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, API	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 Diagnostics DegradedQualityNotifications	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
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

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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 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
Conference MaxMultisiteTransmitRate	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	-	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	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	-	Web, API	A
Conference PeopleFocus OnCall Mode	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	-	Web, API	A
Conference Presentation RelayQuality	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Conference Webex CallProtocolIPStack	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	-	Web, API	A I
Files Services Webex SaveToUser	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	Web, API	A

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H323 Authentication LoginName	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	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	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	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	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	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	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	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	Web, API	A
H323 NAT Address	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	Web, API	A
HttpClient Mode	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	-	Web, API	A
HttpClient AllowInsecureHTTPS	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	-	Web, API	A
HttpFeedback TlsVerify	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	-	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	Web, API	A
Logging Debug Bluetooth	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging Debug Wifi	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Logging External Mode	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	-	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	-	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	-	Web, API	A
Logging External TlsVerify	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	-	Web, API	A

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Logging Mode	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	-	Web, API	A
Macros Mode	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	-	Web, API	A
Macros Diagnostics JavascriptErrors	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	-	Web, API	A
Macros UnresponsiveTimeout	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
MicrosoftTeams CVI CrossTenant	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A
MicrosoftTeams Logging Level	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A
MicrosoftTeams Logging Mode	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A
MicrosoftTeams Zoom CrossLaunch	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	-	Web, API	A
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	-	Web, API	A
Network [n] Firewall Incoming H323	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] Firewall Incoming Pairing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] Firewall Incoming SIP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Network [n] FQDN	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A

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Network [n] IEEE8021X Eap Ttls	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	-	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	-	Web, API	A
Network [n] IPStack	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	-	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	-	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	-	Web, API	A
Network [n] IPv4 InterfaceIdentifier	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	-	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	-	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	-	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	-	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	-	Web, API	A
Network [n] IPv6 InterfaceIdentifier	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	-	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	-	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	-	Web, API	A
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	-	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	-	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	-	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	-	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	-	Web, API	A
Network [n] Speed	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	-	Web, API	A
Network [n] VLAN Voice Mode	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] VLAN Voice VlanId	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	-	Web, API	A
NetworkServices CommonProxy	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices DiscoveryProtocol SystemName	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A
NetworkServices H323 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 Mode	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	-	Web, API	A
NetworkServices HTTP Proxy LoginName	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	-	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	-	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	-	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	-	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	-	Web, API	A
NetworkServices HTTPS OCSP URL	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices HTTPS Server MinimumTLSVersion	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	-	Web, API	A
NetworkServices HTTPS VerifyClientCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices LLDP Mode	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	Web, API	A
NetworkServices NTP 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
NetworkServices NTP Server [n] Key	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	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	Web, API	A
NetworkServices PTP Priority	-	-	-	-	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	-	Web, API	A
NetworkServices SMTP Mode	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 SMTP Server	X	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	X	-	Web, API	A
NetworkServices SMTP Username	X	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	X	-	Web, API	A
NetworkServices SMTP From	X	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	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	-	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	-	Web, API	A I
NetworkServices SNMP SysNameSource	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	-	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	-	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	-	Web, API	A
NetworkServices SSH Mode	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	-	Web, API	A
NetworkServices UPnP Mode	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	-	Web, API	A
NetworkServices Websocket	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	-	Web, API	A
NetworkServices Wifi Allowed	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 FrequencyBand	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
NetworkServices Wifi Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
NetworkServices XMLAPI Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Peripherals ActivePen Enabled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	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, API	A
Peripherals Pairing CiscoTouchPanels HttpProxy	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A

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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	X	-	Web, API	A I
Peripherals Profile Cameras	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	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 Microphones Analog	-	-	-	X	X	X	-	X	X	X	-	-	-	-	-	-	X	X	-	Web, API	A I
Peripherals Profile Microphones Ethernet	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I
Peripherals Profile Microphones USBMicrophone	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I
Peripherals Profile Microphones USBInterface	-	-	-	-	-	-	-	X	X	X	X	-	X	X	-	-	-	-	-	Web, API	A I
Peripherals Profile NetworkSwitches	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	Web, API	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
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	Web, API	A U

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Provisioning Password	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 CameraLayout	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
RemoteAccess Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RemoteAccess ShowTapIndicator	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
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

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RoomCleanup AutoRun HourOfDay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RoomReset Control	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
RoomScheduler BookingTimeout	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	-	Web, API	A
UserInterface RoomScheduler OverlayOpacity	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	Au
Security CSR KeySize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Enrollment KeySize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Security Fips Mode	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	-	Web, API	A
Security Session InactivityTimeout	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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Security Session MaxFailedLogins	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	-	Web, API	A
Security Session MaxTotalSessions	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	-	Web, API	A
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 [n] BaudRate	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SerialPort Outbound Port [n] Description	X	X	X	X	X	X	X	X	X	X	X	-	-	X	X	-	X	X	-	Web, API	A I
SerialPort Outbound Port [n] 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, API	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, API	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, API	A

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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 TransportSecurity CertificateVerificationMode	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
SIP Turn Password	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	-	Web, API	A
SIP URI	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	-	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	-	Web, API	A I
Standby Control	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	-	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	-	Web, API	A I
Standby Level DeepSleep Delay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Standby Level DeepSleep Mode	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Standby Level Networked Delay	-	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I
Standby Level Networked Mode	-	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	-	Web, API	A
Standby Signage Audio	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	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	-	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	-	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	-	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	-	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	-	Web, API	A I

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Standby WakeupOnPairing	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	-	Web, API	A I
SystemUnit Name	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	-	Web, API	A
SystemUnit CrashReporting Advanced	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
SystemUnit CrashReporting Mode	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	-	Web, API	A
SystemUnit CustomDeviceId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
SystemUnit Extension MouseSupport	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	Web, API	A
SystemUnit Hardware USBC [n] 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 TruncateCop	X	X	X	X	X	X	X	X	X	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	-	Web, API	A
SystemUnit SoftwareUpgrade WebCache Url	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
ThousandEyes ConnectionString	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	-	Web, API	A U
Time TimeFormat	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A

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Time OfficeHours WorkWeek Thursday	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	-	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	-	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	-	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	Web, API	A U
UserInterface Accessibility IncomingCallNotification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Accessibility ScreenReader Default Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Accessibility ScreenReader Gesture	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Accessibility ScreenReader Speed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Assistant Mode	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	-	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	-	Web, API	A
UserInterface Bookings AdhocBooking TimeSlotSize	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Bookings AdhocBooking UseDefaultTitle	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Bookings Visibility AllDayMeetings	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 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 NonJoinableMeetings	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 JoinedParticipants Avatars	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	-	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	-	Web, API	A I U
UserInterface Bookings Visibility Personal FullDayCalendar	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 Personal NonJoinableMeetings	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	-	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	-	Web, API	A I U

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UserInterface Branding AwakeBranding Colors	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	-	Web, API	A
UserInterface ContactInfo Type	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	-	Web, API	A I
UserInterface DecemberThemeBeta	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface DevicePersonalization QRCodeNotification	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface Features Share MTRAutoSelectSource	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface InstantMeeting Invite	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface WallpaperFillMode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface CustomWallpaperOverlay	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	-	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	-	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 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 I 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 U
UserInterface Features Call HdmiPassthrough	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I U
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 U
UserInterface Features Call JoinMicrosoftTeamsCVI	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	-	Web, API	A I U
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 U
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 U
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 U
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 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 U
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 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
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 I 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 I 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 U
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 U
UserInterface Features Call Webcam	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I U
UserInterface Features Files Start	X	X	X	X	X	-	X	X	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I U
UserInterface Features HideAll	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 Share MTRShareExperience	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 Share 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 Whiteboard Start	X	X	X	X	X	-	X	X	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I U
UserInterface Help Tips	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	-	Web, API	A
UserInterface HomeScreen Peripherals WebApp AllowInsecureHttps	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	-	Web, API	A
UserInterface KeyTones Mode	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	-	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	-	Web, API	A
UserInterface LedControl OutsideOfficeHours	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface LiveAnnotation AvailabilityForPresenter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface LiveAnnotation Enabled	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
UserInterface LiveAnnotation EnabledOutOfCall	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	-	Web, API	A
UserInterface MuteWarning	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	-	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 OSD EncryptionIndicator	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
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	-	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	-	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	-	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	-	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	-	Web, API	A
UserInterface RoomScheduler DevicePersonalization QRCodePairing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
UserInterface RoomScheduler Mode	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	-	Web, API	A
UserInterface RoomStatusMenu Visibility	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	-	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	-	Web, API	A
UserInterface Security Mode	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	-	Web, API	A
UserInterface SettingsMenu Visibility	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	-	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	-	Web, API	A U
UserInterface Wallpaper	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
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	-	Web, API	A
UserInterface Whiteboard Deletion	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	-	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	-	Web, API	A

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UserManagement LDAP Admin Group	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	-	Web, API	A
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	-	Web, API	A
UserManagement LDAP BindPassword	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	-	Web, API	A
UserManagement LDAP MemberAttribute	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	-	Web, API	A
UserManagement LDAP Mode	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	-	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	-	Web, API	A
UserManagement LDAP VerifyServerCertificate	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	-	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	-	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	-	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	-	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	-	Web, API	A
UserManagement PasswordPolicy MaxLifetime	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	-	Web, API	A
Video ActiveSpeaker DefaultPIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Video DefaultLayoutFamily Local	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	-	Web, API	A
Video DefaultLayoutFamily Remote	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 DefaultMainSource	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 Beacon	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 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 PresentationSelection	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, API	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, API	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] Transform	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

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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
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	-	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, API	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] HDCPForce1_4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
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 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

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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	-	-	-	-	-	-	-	-	-	-	Web, API	A I
Video Output Connector [n] Whitebalance Level	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A U
Video Presentation DefaultPIPPosition	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A
WebEngine Features AllowDeviceCertificate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine Features CanvasOopRasterization	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	-	Web, API	A
WebEngine Features LocalWebAppManagement	X	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	-	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	-	Web, API	A
WebEngine Features WebGL	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	-	Web, API	A
WebEngine FpsCounter	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebEngine MinimumTLSVersion	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
WebEngine Mode	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	-	Web, API	A
WebEngine UseHttpProxy	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	-	Web, API	A
Webex CloudProximity ManualPairing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
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, API	A
Webex DevicePersonalization TaskBasedSignIn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
Webex Hotdesking DefaultBookingEndTime	X	X	X	X	X	-	-	X	X	-	-	-	-	-	-	X	X	X	-	Web, API	A
Webex Meetings AIAssistantAutoSummarize Available	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	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 Privacy AllowUsageDataLogging	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A
Webex Proximity Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I
Webex UpgradeChannel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebRTC EndCallTimeout	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A
WebRTC InteractionMode	X	X	X	-	-	-	X	-	-	-	-	-	-	-	-	X	X	X	-	Web, API	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
Zoom EnhancedCallControls	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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AirPlay KeyEvent Back	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Click	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Down	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent FastForward	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent FastReverse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Left	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Play	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Right	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
AirPlay KeyEvent Up	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
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 I 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 I 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 I U
Audio Diagnostics MeasureDelay	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Equalizer List	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio Equalizer Update	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalInput Add	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalInput AddConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalInput Remove	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalInput RemoveConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalInput Update	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalInput Ethernet Deregister	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalInput Ethernet PacketStatisticsReset	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalInput Ethernet Register	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	API	A I
Audio LocalOutput Add	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalOutput AddConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I

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Audio LocalOutput ConnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalOutput DisconnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
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 I
Audio LocalOutput RemoveConnector	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalOutput Update	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio LocalOutput UpdateInputGain	X	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
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 I
Audio RemoteOutput DisconnectInput	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
Audio RemoteOutput UpdateInputGain	X	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
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 I
Audio Setup Reset	-	-	-	-	-	-	-	X	X	-	X	-	X	X	-	-	-	-	-	API	A I
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

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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	-	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	-	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	-	API	A I U
Audio Volume Increase	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume Mute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume SetToDefault	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume ToggleMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio Volume Unmute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio VuMeter Start	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio VuMeter Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Audio VuMeter StopAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I 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	-	API	A U
Bookings CheckIn	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Bookings CheckOut	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	-	API	A U
Bookings Delete	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	-	API	A U
Bookings Extend	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	-	API	A U
Bookings List	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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Bookings NotificationSnooze	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	-	API	A U
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	-	API	A U
Call Disconnect	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	-	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	-	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	-	API	A U
Call FarEndControl RequestCapabilities	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	-	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	-	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	-	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	API	A U
Call Forward	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	-	API	A U
Call Ignore	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	-	API	A U
Call Reject	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	-	API	A U
Call UnattendedTransfer	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	-	API	A U
CallHistory AcknowledgeMissedCall	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	-	API	A U
CallHistory DeleteEntry	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	-	API	A U
CallHistory Recents	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
Camera Boot	-	-	-	-	X	-	-	X	X	X	X	X	X	X	-	-	X	X	-	API	A U
Camera FactoryReset	-	-	-	-	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
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	-	API	A U
Camera Preset ActivateDefaultPosition	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	-	API	A U
Camera Preset List	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	-	API	A U
Camera Preset Show	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	-	API	A U
Camera Ramp	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Cameras Stereoscopic Mute	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	API	A I U
Cameras Stereoscopic Unmute	-	-	-	-	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

X: Supported - : Not supported

A: ADMIN Au: AUDIT I: INTEGRATOR R: ROOMCONTROL U: USER

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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 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
Cameras SpeakerTrack Closeup Activate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Cameras SpeakerTrack Closeup Deactivate	-	-	-	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
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	-	X	-	X	X	-	-	-	-	-	API	A I U
Cameras SpeakerTrack Calibration Diagnostics Stop	-	-	-	-	-	-	-	X	X	-	X	-	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 Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I 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

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
Conference Call AuthenticationResponse	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I 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
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	-	API	A U
Conference MuteAll	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	-	API	A U
Conference Participant Add	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	-	API	A U
Conference Participant Disconnect	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	-	API	A U
Conference Participant MoveToLobby	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	-	API	A U
Conference ParticipantList Search	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	-	API	A U
Conference PeopleFocus Deactivate	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	-	API	A U
Conference Reaction Enable	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	-	API	A U
Conference Recording Pause	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
Conference Recording Resume	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	-	API	A U
Conference Recording Stop	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	-	API	A I U
Conference SkinTone	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	-	API	A U
Conference SimultaneousInterpretation SelectLanguage	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	-	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	API	A U
Conference SpeakerLock Set	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	-	API	A U
Diagnostics Run	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Dial	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	-	API	A
HttpClient Allow Hostname Clear	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	-	API	A
HttpClient Allow Hostname Remove	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	-	API	A
HttpClient Get	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	-	API	A
HttpClient Post	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	-	API	A
HttpFeedback Deregister	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	-	API	A
HttpFeedback Register	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

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Logging AddEvent	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	-	API	A U
Logging ExtendedLogging Stop	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	-	API	A U
Macros Log Clear	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	-	API	A
Macros Macro Activate	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	-	API	A
Macros Macro Get	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
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	-	API	A
Macros Macro Rename	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	-	API	A
Macros Macro Save	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	-	API	A
Macros Runtime Start	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	-	API	A
Macros Runtime Stop	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	-	API	A I
MicrosoftTeams Install	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A
MicrosoftTeams Join	X	-	-	X	X	-	-	X	X	-	X	-	X	-	-	-	X	X	-	API	A I U
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 SignOut	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	X	-	X	-	-	-	-	X	X	X	-	API	A U

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Network SNMP USM User Add	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	-	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	-	API	A
Network Wifi Configure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Network Wifi Connect	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	-	API	A U
Network Wifi List	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	-	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	-	API	A U
Peripherals Connect	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	-	API	A
Peripherals DeviceManagement Enable	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
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 Security Certificates Services Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals Security Certificates Services Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Peripherals Security Certificates Services Enrollment SCEP Request	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Peripherals Security Certificates Services Enrollment SCEP Renewal Request	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Peripherals 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
Peripherals TouchPanel Configure	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I

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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
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
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	-	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	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	API	A U
Provisioning RoomType Activate	-	-	-	-	X	-	-	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	-	API	A
Proximity Services Activate	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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Proximity Services Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
RemoteAccess EndSession	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
RoomCleanup Cancel	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	-	API	A U
RoomPreset Activate	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	-	API	A U
RoomPreset Store	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	-	API	A
Security Certificates CA Delete	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	-	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	-	API	A
Security Certificates CSR Link	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	-	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	-	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	-	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	-	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	-	API	A
Security Certificates Services Add	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	-	API	A
Security Certificates Services Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Security Certificates Services Enrollment Profiles Delete	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Security Certificates Services Enrollment Profiles List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Security Certificates Services Enrollment SCEP Profiles Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
Security Certificates Services Enrollment SCEP Request	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I

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Security Certificates Services Enrollment SCEP Renewal Request	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
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	-	API	A
Security Certificates ThirdParty Enable	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	-	API	A
Security Certificates ThirdParty Show	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	-	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	-	API	A U
Security Ciphers List	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	-	API	A
Security Persistency	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	-	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	-	API	A
Security Session Terminate	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	-	API	A I U
Standby Deactivate	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	-	API	A I
Standby ResetHalfwakeTimer	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	-	API	A U
SystemUnit Boot	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	-	API	A
SystemUnit DeveloperPreview Deactivate	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	-	API	A U
SystemUnit FirstTimeWizard Stop	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U

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SystemUnit Notifications RemoveAll	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	-	API	A
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	-	API	A
SystemUnit OptionKey RemoveAll	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	-	API	A
SystemUnit SignInBanner Get	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	-	API	A
SystemUnit SoftReset	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	-	API	A U
SystemUnit WelcomeBanner Clear	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	-	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	-	API	A
Time DateTime Get	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	-	API	A U
UserInterface Accessibility ScreenReader Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
UserInterface Branding Clear	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	-	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	-	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	-	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	-	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	-	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	-	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	-	API	A I R

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UserInterface Extensions Icon Delete	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	-	API	A I R U
UserInterface Extensions Icon Download	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 Fetch	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 Get	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 List	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 Upload	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 List	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 Panel Clicked	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 Panel Close	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 Panel Open	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 Panel Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions Panel Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions Panel Update	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 Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions WebApp Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions WebWidget Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions WebWidget Save	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R

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UserInterface Extensions Widget Action	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 Widget SetValue	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Extensions Widget UnsetValue	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface LedControl Color Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I
UserInterface Message Alert Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message Alert Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Message Prompt Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message Prompt Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Message Prompt Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message Rating Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message Rating Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Message Rating Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message TextInput Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message TextInput Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Message TextInput Response	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message TextLine Clear	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Message TextLine Display	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Presentation ExternalSource Add	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Presentation ExternalSource List	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Presentation ExternalSource Remove	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R

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
UserInterface Presentation ExternalSource RemoveAll	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface Presentation ExternalSource Select	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R U
UserInterface Presentation ExternalSource State Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I R
UserInterface ScreenLock AdminInitiateRecovery	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
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	-	API	A
UserInterface Translation Override Set	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	-	API	A
UserInterface WallpaperBundle List	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	-	API	A
UserInterface WebView Clear	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	-	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	-	API	A
UserManagement RemoteSupportUser Delete	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	-	API	A
UserManagement RemoteSupportUser GetState	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	-	API	A
UserManagement User Delete	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	-	API	A
UserManagement User List	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	-	API	A
UserManagement User Passphrase Change	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	-	API	A
UserManagement User Unblock	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A

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UserPresence CustomStatus Clear	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	-	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	-	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	-	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	-	API	A I
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 Miracast Activate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Input Miracast Deactivate	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
Video Input Miracast PinAttemptsReset	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	-	-	X	X	-	API	A I U
Video Matrix Reset	-	-	-	X	X	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	-	-	X	X	-	API	A I U

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Video Matrix Unassign	-	-	-	X	X	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
Video Selfview Set	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I U
WebEngine AllowInsecureHttps Add	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	-	API	A
WebEngine AllowInsecureHttps Remove	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	-	API	A
WebEngine DeleteStorage	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	-	API	A U
WebEngine MediaAccess Add	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	-	API	A
WebEngine MediaAccess Remove	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	-	API	A
WebEngine Tracing Start	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	-	API	A U
Webex Join	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	-	API	A U
Webex Registration Airgap Prepare	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Webex Registration Cancel	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A
Webex Registration ConvertToCloud	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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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
Webex Registration Logout	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	-	API	A
Webex Software Upgrade	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A U
Webex Software Validate	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	-	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	-	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	-	API	A
Whiteboard Email Cancel	X	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	X	-	API	A I
Zoom Join	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	API	A I 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
Audio Devices Bluetooth ActiveProfile	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I U
Audio Devices HandsetUSB ConnectionStatus	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio Devices HandsetUSB Cradle	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio Devices HeadsetAnalog ConnectionStatus	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I U
Audio Devices HeadsetUSB ConnectionStatus	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio Devices HeadsetUSB Description	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio Devices HeadsetUSB Manufacturer	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio Input Connectors Ethernet [n] Mute	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Connectors Ethernet [n] PacketsLost Total	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Connectors Ethernet [n] PacketsReceived Total	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Connectors Ethernet [n] StreamName	-	-	-	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Ethernet DiscoveredStream [n] Channels	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Ethernet DiscoveredStream [n] MediaIP	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Ethernet DiscoveredStream [n] Name	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Ethernet DiscoveredStream [n] OriginIP	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input Ethernet DiscoveredStream [n] Status	-	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output Connectors Ethernet [n] Channels	-	-	-	X	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	X	-	Web, API	A I U
Audio Output Connectors Ethernet [n] MediaIP	-	-	-	X	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	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 I 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 I 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 I U

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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 I 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 I U
Audio Output Connectors USBInterface [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 Input LocalInput [n] AGC	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] Channels	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] Connector [n]	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] Direct	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] MixerMode	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] Mute	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Input LocalInput [n] Name	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I 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 I U
Audio Input RemoteInput [n] Role	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 MusicMode	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 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 I
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 I 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 I U

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Audio Output LocalOutput [n] Channels	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] Connector [n]	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] Input [n] Gain	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] Loudspeaker	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] Name	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output LocalOutput [n] VolumeControlled	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I 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 I U
Audio Output RemoteOutput [n] Input [n] Gain	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio Output RemoteOutput [n] Role	X	-	-	-	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A I U
Audio SelectedDevice	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I 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 I 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

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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 I U
Audio VolumeHeadsetAnalog	X	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Web, API	A I U
Audio VolumeHeadsetBluetooth	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I U
Audio VolumeHeadsetUsb	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio VolumeInternal	X	X	X	X	X	X	X	-	-	-	-	-	-	-	X	-	X	X	-	Web, API	A I U
Audio VolumeMute	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I 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

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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
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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

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Cameras Camera [n] Manufacturer	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	-	Web, API	A I R U
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

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Cameras SpeakerTrack Behavior Active	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 Closeup 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 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
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
Cameras Stereoscopic Calibrated	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	X	-	Web, API	A I R U
Cameras Stereoscopic Status	-	-	-	-	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

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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 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	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	A U
Conference Call [n] Capabilities FECC Mode	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	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	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	-	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	-	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	-	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	-	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	-	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	Web, API	A U
Conference Call [n] Capabilities LockControl	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	-	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	-	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	-	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 Call [n] Capabilities MeetingAssistant Stop	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U

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Conference Call [n] MicrophonesMuted	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
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 ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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

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Conference EndToEndEncryption ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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 ExternalIdentity 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 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

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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
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
Conference SelectedCallProtocol	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	-	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	-	Web, API	A U

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Diagnostics Message [n] Description	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	-	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	-	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	-	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	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	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	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	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	Web, API	A U
H323 Mode 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] Expression [n]	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U

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Logging ExtendedLogging RenderingDump	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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 Call [n] Channel [n] Video intraFrames	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
MediaChannels DirectShare [n] Channel [n] EncryptionType	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	-	Web, API	A U
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] Type	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

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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
MediaChannels Miracast [n] Channel [n] Audio Channels	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Miracast [n] Channel [n] Audio Protocol	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Miracast [n] Channel [n] Encryption	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Miracast [n] Channel [n] EncryptionType	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Miracast [n] Channel [n] Netstat Bytes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
MediaChannels Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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 Miracast [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

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MediaChannels Miracast [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 CVI CrossTenant	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
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

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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 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 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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U

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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 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	-	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	-	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	-	Web, API	A I
Network [n] FQDN	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	-	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	-	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	-	Web, API	A U
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	-	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	-	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	-	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	-	Web, API	A U
Network [n] LLDP Chassis ID	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP Chassis IDType	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP Duplex	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP Port ID	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP Port IDType	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP PrimaryMgmtAddress	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP SysDescr	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP SysName	X	X	X	X	X	-	-	X	X	-	X	-	X	X	-	-	X	X	-	Web, API	A U
Network [n] LLDP VoiceVlanID	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	-	Web, API	A U
Network [n] Wifi ProfileID	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	-	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	-	Web, API	A U

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Network [n] Wifi CLMVersion	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
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	-	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	-	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	-	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	-	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	-	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	-	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	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
NetworkServices NTP 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
NetworkServices NTP Status	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A I R U
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	A I R U
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	A I R U
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	A I R U
Peripherals ConnectedDevice [n] SerialNumber	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] SoftwareInfo	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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Peripherals ConnectedDevice [n] 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
Peripherals ConnectedDevice [n] Type	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] UpgradeFailureReason	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] UpgradeStatus	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] UpgradeURL	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 PinPairing PinVisibleOnScreen	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 PinPairing RetriesRemaining	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 PinPairing TimeRemaining	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 Stylus [n] Presence	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A I R U
Provisioning CUCM Customization Checksum	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 Enabled	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 LastLoggedInUserId	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	Web, API	A U
Provisioning Reason	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	-	-	-	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	-	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	-	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	-	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	-	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	-	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
Provisioning Software UpgradeStatus Message	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
Provisioning Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Provisioning WebexCalling Reason	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	-	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	-	Web, API	A U
RemoteAccess Availability Reason	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	-	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	-	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	-	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	-	Web, API	A I U
RoomAnalytics RelativeHumidity	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	-	Web, API	A U
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 MeasurementState	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	-	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	-	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	-	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	-	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	-	Web, API	A I 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
RoomAnalytics T3Alarm Detected	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	-	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	-	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	-	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	-	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	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	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	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	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	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	-	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	-	Web, API	A U
SIP Authentication	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
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	-	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	-	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	-	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	-	Web, API	A U
SIP Secure	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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SIP Verified	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A I 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	-	Web, API	A I U
SystemUnit Hardware Monitoring Temperature Status	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	-	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	-	Web, API	A U
SystemUnit LastShutdownTime	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	-	Web, API	A U
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	-	Web, API	A I U
SystemUnit ProductPlatform	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
SystemUnit ProductType	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 DisplayName	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 Name	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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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	-	Web, API	A I U
SystemUnit Software OptionKeys Encryption	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 MultiSite	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	-	Web, API	A I U
SystemUnit Software ReleaseDate	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 Version	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	-	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	-	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	-	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	-	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	-	Web, API	A U
SystemUnit Uptime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
ThousandEyes Status	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	-	Web, API	A U
Time SystemTime	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A I U
UserInterface Accessibility ScreenReader Mode	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A 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	-	Web, API	A I U
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

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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 U
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 U
UserInterface Features Call HdmiPassthrough	-	-	-	-	-	X	-	-	-	X	X	X	X	-	X	-	-	-	-	Web, API	A I U
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 U
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 U
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 U
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 U
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 U
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 U
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 U
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 U
UserInterface Features Call Webcam	-	-	-	X	X	-	X	X	X	-	-	-	-	-	-	-	X	X	-	Web, API	A I U
UserInterface Features Files Start	X	X	X	X	X	-	X	X	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I U
UserInterface Features Share 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 Whiteboard Start	X	X	X	X	X	-	X	X	X	-	X	-	-	-	-	X	X	X	-	Web, API	A I U
UserInterface LedControl Color	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	-	Web, API	A I U

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UserInterface ScreenLock Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	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	-	Web, API	A I U
UserInterface Translation Override Checksum	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	-	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	-	Web, API	A I U
UserInterface WebView [n] HttpResponseStatusCode	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A I U
Video HdmiOutput	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 Activity	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A I U
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

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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 I 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] Availability	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] 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 ActiveSpeakerOnStage	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 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 Layout LocalStageUpdatesDisallowed	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout SelfOnStage	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout StageActiveSpeakerIndex	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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Video Layout StageControlledByHost	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout StageParticipant [n] CallId	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Video Layout StageParticipant [n] ParticipantId	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
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A I U

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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	-	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	-	Web, API	A I U
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] HDCP Version	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

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 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
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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	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	-	Web, API	A U
WebEngine LogLevel	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	-	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	-	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	-	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	-	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	-	Web, API	A U
Webex Airgap Status	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	-	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
Webex DevicePersonalization Hotdesking SessionStatus	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex DevicePersonalization Personalized	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
Webex Domain	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	-	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	-	Web, API	A U
Webex Services Provisional Status	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	-	Web, API	A U
Webex Status	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	-	Web, API	A U
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

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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 *CauseType* and *CauseCode* 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
```


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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*

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