AudioCodes Room Experience (RX) Suite

RXV200 MTR on Android[™] Compute with RX-PAD Meeting Room Controller

Version 2.8







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Abbreviations and Conventions

Each abbreviation, unless widely used, is spelled out in full when first used.

Related Documentation

Document Name
RXV81 RXV200 RX-PAD RX-PANEL Release Notes
RXV200 Microsoft Teams Rooms on Android Compute Unit Quick Installation Guide
RX-PAD Meeting Room Controller Quick Guide
RXVCAM70 PTZ Camera Quick Guide
RXVCam360 Video Conferencing Camera Quick Guide
One Voice Operation Center (OVOC) User's Manual
Device Manager Administrator's Guide

Document Revision Record

LTRT	Description
09985	Initial document release for Version 2.8.574 (M1); AlphaSSL certificate; no firewall required for screen sharing; Composite AI individual camera settings and user modifications during meeting; selecting presenter to track; whiteboard sharing; preferred HDMI IN source; return to previous version

Documentation Feedback

AudioCodes continually strives to produce high quality documentation. If you have any comments (suggestions or errors) regarding this document, please fill out the Documentation Feedback form on our website at https://online.audiocodes.com/documentation-feedback.

1 Introduction

The enterprise workspace and meeting space have changed dramatically over the past decade. Virtually all our communication today is hybrid, involving both on-site participants gathered in one or more meeting rooms and online participants located in their home offices or on the go. Modern meeting devices must be adaptable enough to accommodate any room size or shape, while minimizing the number of table-mounted accessories and devices apart from a microphone and a meeting room controller like the AudioCodes RX-PAD.

To meet this specific need, AudioCodes has created a range of RXV200 bundles which function as Microsoft Teams Rooms on Android devices.

The AudioCodes RXV200 MTR on Android Compute is a robust, dependable and adaptable solution that enables an easy upgrade of any component within the meeting room, thereby facilitating the adoption of new and advanced devices to keep up with latest technology trends without excessive expenditure. Together with the RX-PAD Meeting Room Controller, it provides an easy meeting room experience that significantly boosts productivity.

This Android compute MTR unit serves as the meeting room's nerve center and sits at the heart of the RXV200-B20 and RXV200-B40 bundles. It can be connected to a variety of cameras, audio sources and advanced AI applications.

Controlled by AudioCodes' RX-PAD Meeting Room Controller, the RXV200 offers innovative features such as one-click-to-join with an integrated calendar for easy collaboration initiation, smooth content sharing and simple camera adjustments for a complete hybrid experience.

See also AudioCodes website here for additional information.

With this release, Microsoft Teams Android devices now utilize Intune Android Open Source Project (AOSP) device management. AOSP device management is a mobile device management (MDM) platform specifically designed for Teams devices. This update delivers more reliable user experience, an enhanced deployment process for administrators, and serves as the foundation for future innovations and advanced management capabilities for Microsoft Teams Android devices, including Teams Rooms, Teams panels, Teams phones, and Teams displays.

AOSP Device Management replaces the legacy Android Device Administrator solution previously used to manage Teams devices.

For detailed information on the AOSP migration process, please refer to the article <u>Moving</u> <u>Teams Android Devices to AOSP Device Management | Microsoft Community Hub</u>.

1.1 Highlights

RXV200 feature highlights are:

- Multiple device support for mix-and-match adaptability
- Reliable Android compute unit for every room configuration
- Simple deployment and management
- Cost-effective and value for money
- Allows future addition and upgrade of peripherals (mix-and-match of video and audio devices)
- Comprehensive support for Microsoft Teams features is provided for a complete hybrid collaboration
- Intuitive meeting experience with calendar integration and click-to-join or proximity-join experience

- Users can hear audio notifications triggered by RX-PAD through the RXV200 speaker, including Talkback accessibility, ensuring a streamlined and accessible communication experience during meetings and collaboration sessions.
- HDMI Out CEC (Consumer Electronics Control) One-Touch-Play command, triggered by RX-PAD's human sensor, turns on/off the TV screen. See also <u>here</u> for more information.
 - When RX-PAD (pre-set to 'Screen timeout') enters sleep mode, it automatically triggers RXV200 to enter sleep mode as well, activating the CEC One-Touch-Play command to turn the TV off.
 - When RX-PAD's human sensor wakes up RX-PAD, RXV200 wakes up as well and turns the TV on.

1.2 Benefits

- Superb video quality provided by AudioCodes's RXVCam50 AI camera (4K, auto framing, EPTZ)
- Hear and be heard with crystal-clear sound
- Human sensor for activating the system and welcoming the user upon proximity
- An optimal solution for small to large meeting spaces
- Optional centralized management with AudioCodes' OVOC
- Fully controllable by the RX-PAD Meeting Room Controller center-of-room intelligent touch controller

1.3 Bundles

The RXV200 supports multiple devices for mix-and-match adaptability and simplified deployment and management.

RXV200 bundles provide a reliable solution for every room layout and allow easy meeting room component upgrades.

The RXV200 is available in five main bundles.

Table 1: RXV200 Bundles

Name of Bundle	Description
RXV200-B05	 Leverages RX-PAD to enable integration of an existing conference room AV
	system with Microsoft Teams. Connects to an existing audio-video
	conference system.
	Any room size
	Any number of participants
RXV200-B20	RX-PAD
	RXVCam50
	 RX15 (audio)
	Small rooms of up to 10 participants
	See schematic diagram below
RXV200-B360	RX-PAD
	RXVCam360 (video audio)
	Small-medium size rooms of 2-8 participants
	Productivity: Meeting Insights
	See schematic diagram below

Name of Bundle	Description
RXV200-B40	RX-PAD
	RX40 (audio)
	 Medium size rooms of 6-12 participants
	Productivity: Meeting Insights
	See schematic diagram below
RXV200-B70	RX-PAD
100200 270	RXVCam70
	 RX40 (audio)
	Large rooms of 10-18 participants
	Productivity: Meeting Insights
	See schematic diagram below

1.3.1 RXV200-B20 Bundle

The figure below illustrates the RXV200-B20 bundle.



Figure 1: RXV200-B20

1.3.2 RXV200-B360 Bundle



1.3.3 RXV200-B40 Bundle

The figure below illustrates the RXV200-B40 bundle.



Figure 3: RXV200-B40

1.3.4 RXV200-B70 Bundle



Figure 4: RXV200-B70

1.4 Hardware

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The RXV200's plug-and-play simplicity makes it easy to connect a screen, sound system, AI camera with auto-framing to simplify Microsoft Teams physical whiteboard sharing, all controlled by a meeting room controller.

- HDMI In enables participants to share their desktop during a meeting via a simple cable connection
- 4K HDMI Out enables users to seamlessly connect and display ultra-high-definition visuals in compatible external displays during Teams meetings, ensuring a visually immersive and crystal-clear collaboration experience. Whether you're presenting a slideshow, streaming content, or simply extending your display, 4K HDMI Out enhances the overall viewing experience.
- 1x USB C and 2x USB A to connect camera and audio peripherals

RXV200 supports a single display *irrespective of whether it's connected to HDMI1 or HDMI2*:

- When RXV200 boots up, if a single TV screen is connected to RXV200, it can be connected to either HDMI1 or to HDMI2. This TV screen will function as the primary screen irrespective of whether it is connected to HDMI1 or HDMI2.
- If after that another TV screen is connected to the available HDMI port on RXV200, this TV screen will become the secondary screen.
- If two TV screens are connected to RXV200 prior to boot up, the TV screen connected to HDMI1 will be used as the primary screen while the other TV screen will be used as the secondary screen.

1.5 Management

RXV200 bundles are managed using AudioCodes' One Voice Operations Center (OVOC) Device Manager or Microsoft's Teams admin center (TAC), enabling IT admins to monitor and upgrade the devices from anywhere. Using OVOC, IT admins can easily monitor and manage all bundled devices from a centralized location. Management includes:

- Firmware management / upgrade
- Alarm management
- Upgrade the MTR APK

Admins can monitor the status of the device's software modules from the System State page as shown <u>here</u>.

Firmware *downgrade* is blocked as of version 2.6.280 to prevent a possible race condition (conflict) between Microsoft Teams admin center (TAC) and AudioCodes' OVOC | Device Manager.

1.6 Specifications

The powerful RXV200 Android compute unit is suited to every room configuration. The device supports:

- Multiple cameras
 - Modular design allows connecting any current and future peripherals
 - AudioCodes's RXVCam50M camera (4K, auto framing, EPTZ)
- Dual screen support
- Audio: RX40 sound bar or RX15 speakerphone
- Advanced AI capabilities
- Fully controllable by RX-PAD center-of-room intelligent touch controller
- RX-PAD includes proximity sensor for activating the system and welcoming users
- HDMI In enables participants to share their desktop content during a meeting via a simple cable connection
- 4K HDMI Out support

1.6.1 RXV200

The table shows RXV200 specifications.

Table 2: RXV200 Specifications

Feature	Description			
HDMI Outputs	2 x 4K HDMI Outputs to external screens			
HDMI Input type	 HDMI 2.0 Input (including audio) 			
Network provisioning	 TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN) Layer 3 TOS and DSCP RTCP support: (RFC 1889) IP address configuration: TCP/IP (IPv4), DHCP/static IP; Time and date synchronization: SNTP QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889) 			

Feature	Description
Performance	 PROCESSOR Snapdragon™ QCS8250 MEMORY LPDDR5, 8G STORAGE UFS3.1, 128G GRAPHICS Adreno™ 650
Device interfaces	 Ethernet: 10/100/1000 Mbps (RJ-45) network interface Wi-Fi (dual band support) Support 802.11 a/b/g/n/ac/ax Bluetooth 5.1 Proximity join and casting via Bluetooth Interfaces: USB 3.0 for audio and video peripherals. Two are Type A, one is Type C 12V/3A DC power input
Wi-Fi type	Dual band Wi-Fi
Chipset type	 Latest chipset from QUALCOMM for video/conf applications
OS	Android 10
UC platform support highlights	 Microsoft Teams Room for Android application with: Intuitive meeting experience with calendar integration and click-to-join or proximity-join experience
Security	 Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256 Network Access Control: IEEE 802.1x Built-in certificate (i.e., DigiCert, AlphaSSL, etc.) Kensington Lock for security measures
Design	 DIMENSIONS (W X D X H) 170 x 170 x 41.4 mm WEIGHT 0.987 kg
Manageability	AudioCodes One Voice Operation Center (OVOC) Device Manager

1.6.2 RX-PAD

Following are the RX-PAD specifications.

Table 3: RX-PAD Specifications

Feature	Description
Display	Landscape Touch 8" LCD (1280 x 800 resolution)
Device interfaces	 Ethernet: 10/100/1000 Mbps (RJ-45) network interface (PoE) Wi-Fi (dual band support) Bluetooth 5.0 12V/3A DC power input Proximity Sensor
Network provisioning	 TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN) Layer 3 TOS and DSCP RTCP support: (RFC 1889) IP address configuration: TCP/IP (Ipv4), DHCP/static IP; Time and date synchronization: SNTP
OS	Android 12

1.6.3 RX15

See AudioCodes website <u>here</u> for the RX15 specifications.

1.6.4 RXVCAM50M

See AudioCodes website <u>here</u> for the RXVCAM50M specifications.

1.7 Security Guidelines

For detailed security guidelines regarding AudioCodes Native Teams Android-based devices, refer to the document <u>Security Guidelines for AudioCodes Native Teams Android based Devices</u>.

2 Getting Started

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See the *RXV200 Microsoft Teams Rooms on Android Compute Unit Quick Installation Guide* shipped with the product or available from AudioCodes for how to get started, including:

- Package contents checklist
- Positioning
- Mounting
- Cabling
- Powering up



3 Connecting to RXV200

See the *RXV200 Microsoft Teams Rooms on Android Compute Unit Quick Installation Guide* shipped with the product or available from AudioCodes for information about connecting the RXV200.

After mounting and cabling RXV200, pair it with RX-PAD (see the guide *Pairing RX-PAD with Teams Rooms on Android AudioCodes Devices*).

3.1 Signing in

Users are provided by default with the option to sign in from any browser or smartphone with a prominent device code. If you choose to sign in from the device, you can enter your username and password on-screen via the device keyboard.

Mon Feb 01 11:31 A	AM .		
		Sign in to make an emergency call.	
			\$
Step 1	On your computer or m	nobile, go to https://microsoft.com/devicelogin	
Step 2	Enter the code below to	o sign in.	
		RCYVBF4XQ	
		Sign in on this device	

3.1.1 Multi-Cloud Sign-in

For authentication into specialized clouds, the network administrator can choose the Settings gear on the sign-in page to see the options that are applicable to their tenant.



3.1.2 Remote Provisioning and Sign in from Teams Admin Center

See <u>Remote provisioning and sign in for Teams Android devices - Microsoft Teams | Microsoft Docs</u> for more information.

IT admins can remotely provision and sign in to a Teams device.

To provision a device remotely, the network administrator needs to upload the MAC IDs of the devices being provisioned and create a verification code. The entire process can be completed remotely from the Teams admin center.

Step 1: Add a device MAC address

Provision the device by imprinting a MAC address on it.

- **1.** Sign in to the Teams admin center.
- 2. Expand Devices.
- 3. Select Provision new device from the Actions tab.

		=							
බ	Dashboard		IP phones						Artions 14
885	Teams	~	You can control and manage all of your Teams certified IP	IF promes Address of the second secon					
۵	Devices	^	configuration profiles for each type of phone you have, m more	configuration profiles for each type of phone you have, make changes to their settings, and apply software updates. Learn and Additional Additiona Additional Additio					
	Teams Rooms		Devices summary						
	Collaboration bars								
	Teams displays		12 11 12 Devices Need update Offline						
۲	Locations	~							
88	Users								
Ē	Meetings	~	All phones User phones Common area pho	nes Conference phones Configuration	on profiles				
9	Messaging policies								
₿	Teams apps	~	C Edit 🔅 Assign configuration 📿 Manage ta	gi 💭 Update 🤺 Upgrade 🔿 Restait	X Remove Showing 12	t devices	Q, Search	by device name	0 7 0
ଡ	Voice	~	✓ Display name Username	Device name	Health status	Manufacturer	Model	Action	IP address
	Policy packages		Megan Bowen MeganB@M3	165x021987.0 poly-trioc60 64167fd55b9a	Offline	Poly	TrioC60	1 Update available	10.172.208.254
sii	Analytics & reports	~	Nestor Wilke NestorW@M	365x021987 lenovo-lenovocd-18781y 4	Offline	LENOVO	LenovoCD-18781Y		N/A

In the 'Provision new devices' window, you can either add the MAC address manually or upload a file.

Manually add a device MAC address

- 1. From the Awaiting Activation tab, select Add MAC ID.
- 2. Enter the MAC ID.
- 3. Enter a location, which helps technicians identify where to install the devices.
- 4. Select Apply when finished.

Upload a file to add a device MAC address

- 1. From the Awaiting Activation tab, select Upload MAC IDs.
- 2. Download the file template.
- 3. Enter the MAC ID and location, and then save the file.
- 4. Select the file, and then select **Upload**.

Step 2: Generate a verification code

You need to generate a verification code for the devices. The verification code is generated in bulk or at the device level and is valid for 24 hours.

From the **Awaiting Activation** tab, select an existing MAC ID. A password is created for the MAC address and is shown in the **Verification Code** column.

	器 Contoso Electro	onics	Microsoft Teams admin center				? (44
		≡						
ඛ	Dashboard		Provision new devices					
8 <u>6</u> 3	Teams	~	Your new devices will be added to the main list when technicians physically activate them and deploy on site. To help them do					
٨	Devices	^	this follow the steps below					
	Teams Rooms		Provisioning Summary N	r device provisioning steps				
	Collaboration bars		1 0 0	Senerate a one-time password (OTP)				
	Teams displays		Added MAC IDs Expired OTP's Awaiting sign in	sport the table with valid OTPs for your technicians				
Ø	Locations	~						
දිරි	Users		Awaiting Activation Awaiting sign in					
Ē	Meetings	~						
٩	Messaging policies		+ Add MAC ID 🚯 Upload MAC IDs 🔍 Generate Verification (de 🖉 Edit 📋 Delete 1 item selected	Q, Search by MAC ID	00	ΟY	
₿	Teams apps	~	V MAC ID Location	Verification Code				
ଙ		~	v 80.5a.c0.3b.be.fd Partmond	875713				
•	Policy packages		- Water State	010119				

You'll need to provide the list of MAC IDs and verification codes to the field technicians. You can export the detail directly in a file and share the file with the technician who is doing the actual installation work.

Step 3: Provisioning on the device

Once the device is powered up and connected to the network, the technician provisions the device by choosing the 'Settings' gear on the top right of the new 'Sign in' page and selecting **Provision phone**.

lon Feb 01 11:31	AM		
		Sign in to make an emergency call.	
	×	Settings	
		Provision phone	
	\odot	Cloud	
	කු	Device settings	
Step 1			
Step 2			
		Sign in on this device	
		organ in on the defice	

The technician is then expected to enter the device-specific Verification code that was provided in the Teams admin center on the phone's user interface. Once the device is provisioned successfully, the tenant name will be available on the sign in page.

	Contoso	3
Step 1 On your com	puter or mabile as to https://microsoft.com/device/agin	
	pater of mobile, go to https://microsoft.com/devicelogin	
otep i on you com		
Step 2 Enter the coo	de below to sign in.	
Step 2 Enter the coo	de below to sign in. RCYVBF4XQ	

Step 4: Sign in remotely

The provisioned device appears in the Awaiting sign in tab. Initiate the remote sign-in process by selecting the individual device.

- 1. Select a device from the Awaiting sign in tab.
- 2. Follow the instructions in Sign in a user, and then select Close.



The tenant admin is expected to complete authentication on the device from any browser or smartphone.

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← → O © https://ogin.microsoftonline.com/common/couth2/devices.uth	9	\$1	θ	8	
	Microsoft				
	Enter code				
	Enter the code displayed on your app or device.				
	HIGHLIG				
	Not				



When the tenant admin is signing in from Teams Admin Center, the user interface on the device is blocked to prevent other actions on the phone.



4 Using General RXV200 Functions

This section shows how to use general RXV200 functions.

To get started:

1. After signing in, view the RXV200 home page.

Figure 5: Home Page



4.1 Customizing a Background

This feature is only available with the Teams Rooms Pro license Pro

Admin can upload custom background images on the Teams admin center to reinforce their company brand on their Teams Rooms on Android devices.

The main room display, extended room display, and touch console can each have their own specific background image.

PNG, JPG, and JPEG formats are supported.

See also here for more information.

4.2 Configuring a Bundle

Admin can configure one of five bundles depending on the solution the enterprise acquired.

See <u>here</u> for more information about available bundles.

Admin can configure the bundle via RX-PAD and/or the RXV200 UI.

To configure a bundle:

1. Open the Bundle page (**Settings** > **Bundle**).



2. Select the bundle the enterprise acquired. The preceding figure shows RXV200 + RX-PAD + RXVCam50 + RX40 as the selected bundle.

4.3 Managing Camera Presets

You can adjust RXV200 camera presets to suit your preferences.

To access RXV200 camera presets:

1. On RX-PAD, touch the camera button.



The default **Room** preset enables you to capture all participants and actions in a meeting room.

- 2. Touch the Create Temporary Preset option (while in an ongoing meeting) | Touch the Create New Preset option if the device is in idle state.
- 3. Configure the PTZ settings you want.



If you configure a preset (for example) to zoom in and focus on a whiteboard in the meeting room, users in a video call-meeting can switch to it and later switch back to the default **Room** preset or any other defined preset.

- Users can easily toggle between presets according to their requirements per call.
- 4. [Optionally] Edit a preset.
- 5. [Optionally] Click the vertical ellipsis and then from the pop-up menu select the **Restore** option to return camera settings to their defaults.

	Figure 7: Restore	
Camera Settings		
Presets	EDIT PRESET	
Room	Room	:
		Rename
+ Create New Preset	ညြို့ Auto-Framing 🌑	Restore
	Zoom	46%
 During a m that prese Admins ca saved). Us 	neeting, any user can create a temporary p t is automatically deleted. n create presets when the device is in idle ers cannot.	preset; when the meeting ends, mode (and the presets will be

- **Camera Settings** can be changed during a meeting without turning off the video to remote parties.
- **Camera Settings** can optionally be accessed from RXV200's **Device Settings** though admin permissions are necessary.

4.3.1 Configuring a Color Mode Preset on the RXVCAM50M Camera

When RXV200 is connected to the AudioCodes RXVCAM50M camera, users can configure a Color Mode preset from RX-PAD.

Users can configure either:

- Default
- Normal
- Clarity
- Bright
- Soft

← Camera Settings	~			
Presets	EDIT PRESET			
Room	Room			:
+ Create New Preset	🔗 Color Mode			
	Default	O Normal	O Clarity	
	O Bright	🔿 Soft		
	Brightness			50%
		•		
				100%
	Contrast			50%
	0	•		
				100%
	Saturation			84%

Each Color Mode preset incorporates the following attributes:

- Default: Brightness 50, Contrast 50, Saturation 70
- Normal: Brightness 50, Contrast 50, Saturation 70
- Clarity: Brightness 60, Contrast 50, Saturation 60
- Bright: Brightness 50, Contrast 50, Saturation 70
- Soft: Brightness 50, Contrast 50, Saturation 60

4.4 Selecting the Default Audio Device

Admin can select the default audio device if there's more than one audio device option available.

To select the default audio device:

1. Open the Sound page (**Device settings** > **Sounds**).

÷	Settings	Sound	×
User	Sound	ľ	Media volume
Ť	Accessibility	\$	Default audio device
{ }	Reboot		RX40 ~
1	Touch screen		
(j	About device		
Device	admin settings		
ර	Device Administration		
✨	Display		
S	Date & time		
9	Wi-Ei		

2. From the 'Default audio device' drop-down, select the default device.

4.5 Starting a New Meeting

To start a new meeting:

1. In the home screen, navigate to and select the **Meet Now** option.

Figure 8: New meeting – Invite someone



2. In the 'Invite someone' field, enter the name of a person to invite; after entering the first letters in the name, matching contacts from directory are displayed.

Figure 9: New meeting – Enter the name of a person



3. Select the name of the person to invite.



Figure 10: New meeting – Select the name of a person

4. Invite someone else – or others – and then select **Start meeting**.



The server allocates a meeting ID number and sends an invite message to all participant devices. All devices simultaneously indicate an incoming call (the 'Calling' screen is displayed). The server manages every aspect of the call.



5. Select **Accept**. Note that according to the icon in the 'Incoming call' screen shown in the preceding figure, the caller has video capability.



4.6 Dialing a Number

You can manually dial someone's phone number.

To dial a phone number:

1. In the home screen, navigate to and select the **Dial pad** option.

ligure 11. Dial pau					
×					
1	2 ABC	3 Def			
4 _{бні}	5 JKL	<u>б</u> мпо			
7 PQRS	8 TUV	9 ^{wxyz}			
* ,	0	#			

Figure 11: Dial pad

2. Enter the digits of the destination to call and select Call.

4.7 Enabling Proximity Join

'Proximity Join' allows you to discover and add a nearby, available Microsoft Teams Room, i.e., the RXV200, in this case, to any meeting. It's also possible to accept the incoming meeting on the console of the room.

The feature functions in combination with Bluetooth and 'Bluetooth Beaconing', an integral feature in Microsoft Teams Rooms (MTRs). The MTR device is RXV200. If you bring a laptop or a Teams Mobile Client near the RXV200, it'll offer the RXV200 as the room audio device. The figure below shows how to select the room audio device.

 IPP Weekly		- 🗆 ×
Choose your video and	audio options	
	(데) Computer audio	
	🕅 Phone audio	
V ú Your camera is turned off	Room audio	0
	Search for a room Search for a room * Golan Conference Room	<u> </u>
🗭 🔘 💥 Background filters	Meeting2	C
	Meeting1	
	Meeting3	
	e * Avivim	
	* Carmel conference room	

After you select the room audio device, the meeting is opened without any audio device on your PC client, and then the room meeting device (RXV200) gets a request to join the meeting.

To enable 'Proximity join':

In the Settings screen, navigate to and select **Proximity join**. If it's disabled, it'll become enabled and vice versa.



4.8 Sharing a Whiteboard

Teams meetings on the RXV200 allow participants to open a virtual whiteboard – a digital canvas - on which they can sketch, illustrate, collaborate, brainstorm, plan, and share perspectives with one another in real time. The focus switches away from the presenting participant to the whiteboard. For more information about this Microsoft feature, see <u>here</u>.

To share the Whiteboard:

1. From the ... menu (in the MTRA GUI), select Share Whiteboard.



2. Alternatively, access the Whiteboard from Share content:

Teams Whiteboard View			- 🗆 X
People Chat Reactions 1	D + ••	• 🔍 ┥× re Camera Mic	Share
	Share content Screen	Include computer sound () Window (24)	
	Microsoft Whiteb Collaborate on a whit	ard eboard	
	Share a document, a PowerPoint Live	era whiteboard, and more	
	See your notes, slides, and au P-Manager-AC-In BToE Overview_V2	dience while you present. t	
	 08.07.19_400HD Set General Introductio 	ies IP Phone Training - Sl n to our phones, types of	h
Alan Roberts	AC49x Technical Tra	ining 2019 - IPP	I.
	Open a workbook for everyor	e to work on together.	
	RXVCam Acceptance General tests	e TestsXXXX	

3. View the following Microsoft Whiteboard initializing indication:

÷	Whiteboard	Stop presenting	Ŷ
		Microsoft Whiteboard	

4. View the Whiteboard in the Teams desktop application or in Teams client:

← Whiteboard	Stop presenting	Ŷ
Whiteboard Meeting		ŝ
e.		
100%		
Q		
Ξ		

5. Edit the Whiteboard; every participant with privileges can edit it.

÷	Whiteboard	Stop presenting			٩
Whitebo	ard Meeting				\$
		White	eboard		
Q					
100%					
Q					
			1	▲ ■ 5 ∂	
		in 6			

4.9 Screen Sharing

RXV200 enables users to share their PC/laptop screen via the RX-PAD HDMI In port, to be shared on the screen in idle mode and peripheral mode.

A short HDMI cable connects the PC/laptop to the RX-PAD HDMI In port.
 The connection between RX-PAD and RXV200 is thus 'cableless'.

The feature offers added flexibility by enabling the use of a shorter HDMI cable connected to the center of the meeting room desk, in contrast to a longer (more expensive) cable connected to the RXV200 positioned in the front of the room.

- In-Meeting Mode: When the MTR is in a meeting, the presenter can use the Teams app 'Share' key to share their PC screen (when their PC is connected to RX-PAD's HDMI In port) with in-person attendees who are physically present in the same meeting room, as well as with remote attendees. [Audio sharing is currently unsupported].
- Idle Mode: When the MTR is not in a meeting, the presenter can use the Teams app 'Share' key to share their PC screen (when their PC is connected to RX-PAD's HDMI In port) only with in-person attendees who are physically present in the same meeting room.



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- RXV200 firmware update includes RXVCam360 camera and speaker firmware upgrade.
 - RXV200 firmware update includes **RXVCam70** camera firmware upgrade.
 - RXV200 firmware update includes **RXVCam50** camera firmware upgrade.
 - RXV200 firmware update includes RX15 speaker firmware upgrade.

Updating RXV200 audio and camera peripherals firmware is a safe and streamlined process. Peripherals' update packages are included in the RXV200 firmware update and executed according to the currently connected peripheral. Here's the user experience:

C Android system update		<->
[▶] 14:06	C Device is updating	
₩ +1 732-419-7080		Streaming Test
	Call	nd
	a Share ##	
	Join wi meeting More	tio

1. View 'Device is updating...'

- 2. View the notification 'AudioCodes RXV200 RXVCam70 / RXVCam360 / RXVCam50 firmware is being updated, do not reboot the device'.
- 3. Click OK.
- 4. If RX15 is connected, you'll view the notification: 'AudioCodes RX15 firmware is being updated, do not reboot the device'
- 5. Click OK.
- 6. After a peripheral firmware upgrade is completed, the connected device will perform a reboot and an associated notification will appear at the bottom of the screen.

4.11 About Microsoft Teams

Information about the Microsoft Teams application can be viewed by navigating to and selecting the Settings screen's **About** option shown in the preceding figure.



4.12 Signing out

You can sign out of the application as one user and optionally sign in again as another.

To sign out:

Navigate to and select **Sign out** in the Settings screen shown in the preceding figure.

Sign out Are you sure you want to sign out?	

Optionally, remote sign-out can be performed from Microsoft Teams admin center (TAC). Network administrators can provision the RXV200 from the TAC, remotely sign in, and also sign out.

To sign out of the RXV200 using Microsoft TAC:

Navigate to the TAC screen shown in the figure below and from the … menu located in the uppermost right corner of the screen, select Actions and then Sign out.

	Microsoft Teams admin o	inter							e 7	
	=	IP phone	es \ audiocodes-c435hd unavailabl	íe -						
ŵ	Dashboard									
885	Teams ~							⊘ Manage tags Acti	ions >	
۵	Devices ^		John			7-DAY QUALITY	7-DAY ACTIVITY	© Sign out		
	IP phones		4	Download device logs	Healthy		0 Marting	X Remove device		
	SIP devices		AU	3 Update software	Offline since		27			
	Teams Rooms			Restart	Device name audiocodes-c435hd unavaila		Calls			
	Collaboration bars		6) Refresh details	Usemane Online1@audiocodesipprnd	Good Poor 🗉 Unknown				
	Teams panels									
ø	Locations v		Could Database data	di da Matana						
85	Users		Cetais Ac	unity Habry						
Ē	Meetings ~	5	Software health							
	Messaging policies		 Software type 	Current version	Health status					
₿	Teams apps v		Teams Admin Agent	1.0.0.202108130738.product	Up to date					
۲			Firmware	TEAM5_1.14.390	Up to date					
	Policy packages		Company Portal App	5.0.5211.0	Up to date					
4 4	Analytics & reports V		OFM Agent App	1.090	Up to date					
© -=	Org-wide settings V		Taxant Ann	14404 004 202108/202	Up to date					
-≡ ∩	Notifications & slotts		learns App	1449/1.034.2021061703	up to cate					
Å	Call quality distributed [?									
-20	Con quarty and board 1									

4.13 Enrolling a Device with Intune Policies

Two ways are available to enroll an AudioCodes Teams Android-based device in Intune:

- Create a dynamic group see here
- Create an exclusion group see here

4.13.1 Creating a Dynamic Group

See here how to create dynamic groups in Intune for enrolling AudioCodes Android-based Teams devices.

4.13.2 Creating an Exclusion Group

The information presented here shows how to *exclude* AudioCodes Android-based Teams devices from the organization's Intune policies.

To exclude devices from the organization's Intune policies:

- Remove all conditions that were previous configured:
 - Access Microsoft Azure Government Portal Home > Conditional Access Policies > Require Hybrid Joined or Intune to Access Cloud Resources Conditional Access policy as shown in the figure below.
 - Exclude the device from Intune policies and replace displayName -contains RXVxx
 - where RXVxx is the name of the device model (device.model).

Microsoft Intune admin center								© ©		eli.carciente@talkmail.o TALKMAIL (TALKMAIL.COM)
«	Home > Devices Conditional access > Conditional Access Overview >				Filter for devices					
A Home	New									
Cashboard	Conditional Access policy	las autore autore a								
E All services	Control access based on Conditional Access	Control access based on signals from conditions		Configure a fi	iter to apply policy to specifi	c devices. Learn more L5				
Devices	policy to bring signals together, to make decisions, and enforce organizational policies.	like risk, device platform, location, client apps, or device state. Learn more C		Configure ()	NO					
Apps	Learn more G	Device platforms ①								
뤇 Endpoint security	Name *	Not configured		Devices match	hing the rule:					
Reports	Example: 'Device compliance app policy'	Locations		O Include f	iltered devices in policy					
🚨 Users	Assignments	Not configured		Exclude 1	hitered devices from policy	tant ban ta anata an aila th	- Elter - de			
🚑 Groups	Users ①			And/Or	Property	Operator	Value			
Zenant administration	0 users and groups selected	Client apps ()			displayMama	Fauala	010101			
X Troubleshooting + support	Target recourses	Not conligured		1.1	displayName	Couch	00000			
	No target resources selected	Filter for devices ③		And	displayname	Eduars	RAV200			
	No target resources selected	Exclude filtered devices		+ Add expre	ssion					A - 11
	Conditions () Authentication flows (Preview) ())	nin displayblance on 1990	2001			C Edit	
	1 condition selected	Not configured		device.displa	ayname req rocoor rand o	evice.uspayvame-eq_rovy	200			
	Access controls									
	Grant ①									
	0 controls selected									
	Forcion (1)									
	0 controls selected									
	Enable policy									
	(Report-only) On Off									
	Create			Done						
4.14 Removing Devices from Intune admin center

You can remove devices from Intune admin center when the maximum capacity of signed-in devices is reached.

To remove devices from Intune admin center:

- **1.** Go to Microsoft 365 admin center [portal.office.com] and log in with an Administration account.
- 2. Navigate to Devices > Android devices.

Microsoft Intune admin cente	r					
≪ ↑ Home M Dashboard	Home > Devices Android > Android	devices …				
All services	Search « Overview	🕐 Refresh 🛓 Export	E Columns V	Bulk device action	hs	
Apps	C Android devices	O Search	0	OS: Android (d	levice administrator), And	roid (personally-ow, +4
S Endpoint security	Android enrollment					
Reports	Android policies	Device name	Managed by	Ownership	Compliance	os 🛛
Lusers	G Compliance policies	Confroomaudc_Androi	Intune	Personal	Compliant	Android (device admi
Sroups	G Configuration profiles	Confroomaudc_Androi	Intune	Personal	O Compliant	Android (device admi
Tenant administration	Android FOTA deployments	Confroomaudc_Androi	Intune	Personal	O Compliant	Android (device admi
X Troubleshooting + support		Confroomaudc_Androi	Intune	Personal	O Compliant	Android (device admi
		Confroomaudc_Androi	Intune	Personal	Compliant	Android (device admi
		Conferenzuele Andrei	Internet	Descent	Den line	An dealed (day loss a day)

The Intune admin center service is licensed according to the terms of individual licenses so not all network admins will be able to navigate to it. Check if the license you're using includes the service or not.

3. Click Bulk device actions.

İ.

Home > Devices Android > Android Android devices >	
Bulk device action	
Basics ② Devices ③ Review + create	
OS * Android (device administrator)	\sim
Device action * 🗾 🔶 Delete	\sim
If you delete this device, you will no longer be able to view or manage the device from the Intune portal. The device will no longer be allowed to access your company's corporate resources. Company data may be wiped from the device if the device to check-in after it is deleted.	e tries
Previous Next	

4. From the 'OS' drop-down under the **Basics** tab, select **Android (device administrator)**. From the 'Device action' drop-down, select **Delete**. Click **Next**.





5. Select the devices to delete (i.e., to remove from Intune admin center), and then click **Select**.

- Microsoft Intune admin center Home > Devices | Android > Android | Android devices > A Home Bulk device action Dashboard E All services Basics O Devices 3 Review + create Devices Summary Apps Endpoint security Basics Reports Device action Delete & Users OS Android (device administrator) S Groups Devices Tenant administration X Troubleshooting + support 3 devices selected (100 max) Device name Primary user UPN os Confroomaudc_Android_2/22/2024_11:... Confroomaudc@audiocodesipprnd.onmicrosoft.com Android (device administr... Confroomaudc_Android_2/22/2024_2:5... Confroomaudc@audiocodesipprnd.onmicrosoft.com Android (device administr... Confroomaudc_Android_2/22/2024_9:1... Confroomaudc@audiocodesipprnd.onmicrosoft.com Android (device administr... Previous Create
- 6. Under the Devices tab, click Next.

7. Under the Review + Create tab, make sure your definitions are correct and then click Create; admin receives a notification that a delete action from Intune was successfully initiated on all devices and that n devices were removed.



It may take some time to completely sync the devices with the account so after deleting the devices, wait for 30 minutes before signing in.

5 Getting Familiar with RXV200 Settings

The section familiarizes you with the RXV200's settings. RXV200s are delivered configured with their default settings. Customers can customize them to suit enterprise requirements.

To access device settings:

1. In the home screen, navigate to and select the **More** option.



2. Navigate to and select Settings.

← Se	ettings				
C	Calling	N			
Ŕ	Proximity join				•
⚠	Report an issue				
ajji	About				
G	Sign out				
6 3)	Device settings				

3. Navigate to and select **Device settings**.

← Settings	← About Status
User	IP address
•) Sound	fe80::2980:1cd8:ccd8:c0d3 10.22.13.32
Accessibility	Wi-Fi MAC address 02:00:00:00:00
{} Reboot	MAC address
i About	00.90.01.00.20.19
Device admin settings	Bluetooth address 34:f1:50:8e:3e:60
Device Administration	Serial number DB13152281
	Up time 1:05:10

4. Navigate to and select Device Administration.

÷	Settings	Device Administration
User		Login
(۳	Sound	
Ţ	Accessibility	
{}	Reboot	
(j	About	
Device	e admin settings	
⋳	Device Administration	

5. Log in as administrator.

Logging in as Administrator is required for debugging options. It's password protected. Default: **1234**. After logging in as Admin, you can log out | change password.

6. Select Login.

Login Enter password CANCEL OK		R		
Enter password CANCEL OK	Login			
CANCEL OK	Enter password			
CANCEL OK				
CANCEL OK				
			CANCEL	ОК

7. Enter the password (**1234**) in the 'Enter password' field; use the virtual keyboard to enter the password.

- 8. Select **OK**; you're prompted to change password.
 - The default password must be changed before access to the device via SSH is allowed.
 The default password can be changed per device from the GUI, or via bulk configuration of multiple devices using Microsoft's TAC or AudioCodes' Device Manager.
- 9. Enter a password; you're prompted to verify the password you entered. Criteria required for a strong password are provided (for strengthened security) in order to Log in as Administrator:
 - The password length must be greater than or equal to 8.
 - The password must contain one or more uppercase characters.
 - The password must contain one or more lowercase characters.
 - The password must contain one or more numeric values.
 - The password must contain one or more special characters.

These virtual keyboards are also displayed when the admin needs to enter an IP address to debug, or when they need to enter their PIN lock for the security setting.

After logging in, the Settings screen now also displays the settings under the section 'Device admin settings'.

10. Click **OK**; the Settings screen now also displays 'Device admin settings', in addition to the 'User' settings.

÷	Settings	Sound		
User		Ł	Media volume	
4)	Sound		•	
Ţ	Accessibility	¢	Ring volume)
{}	Reboot			
(j)	About			
Device	admin settings			
⋳	Device Administration			
邻	Display			
©	Date & time			
▼	Wi-Fi			
٦	Camera			

5.1 Device Admin Settings

After logging in as Device Administration as shown in the previous section, you can configure Device Administration settings: Display, Date & Time, Wi-Fi, Camera.

5.1.1 Configuring Admin Login Timeout

Admin login timeout can be configured using the following cfg configuration file parameter:

settings/admin_logout_timeout,values=3

- Default: 3 (minutes)
- Valid values: 1-10 (minutes)

Timing begins when exiting the 'Device Settings' menu.
When the timeout expires, the device logs out automatically.
The functionality works for both registered and unregistered devices.

5.1.2 Configuring Display

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Modify these settings to suit your preferences related to the look and feel of the user interface.

To configure Display settings:

1. Under 'Device admin settings', navigate to and select **Display**.



2. Under 'Display', navigate to and select Sleep.

Sleep	
0 Ne	ver
0 30	seconds
1 r	ninute
<u> </u>	ninutes
O 5 r	ninutes
10	minutes
0 30	minutes

3. Navigate to and select the time to lapse before the interface 'goes to sleep'. Default: 10 minutes.

It's recommended not to enable the 'No IR Power off' option which exists in known TV brands such as LG and Samsung, and to allow RX-PAD to put the system to sleep while it is not in use.

4. Navigate to and select Font size.



5. Navigate to and select Screen saver.

← Display Screen saver	
Off	
Current screen saver Clock	\$

6. Navigate to and select Off to switch it on and then choose the screen saver.

5.1.3 Configuring Time Zones on Teams Devices

AudioCodes recommends using Geolocation as the time zone configuration method.
 Geolocation is the default setting, if no other changes to the time zone settings are made, the device retrieves the time from its geographical location.



Manual time zone setting is **NOT** recommended. Choosing a time zone manually may cause retrieval of the incorrect time zone, and cause functionality issues.

You can configure the time zone using one of the following methods, which are listed in order of preference for best performance:

- Geolocation (Default):
 - The default geolocation method uses a device's public IP address to obtain its location. If the devices are behind NAT, they are using STUN server to discover their public IP addresses.
 - A common STUN server example is Google's publicly accessible server: stun.l.google.com:19302 (default URL).
- DHCP Option 100/101 (posix/tzdbx):
 - Configuration is obtained from DHCP server (once defined as available).

Admin Provisioning:

Use one of the following:

- Teams Admin Center, created under configuration profile.
- Device Manager, created in configuration parameters setup.

The supported parameters for Device Manager configuration can be found in product specific Admin and User guides. For Teams Admin Center see Microsoft documentation on creating a configuration profile.



The RXV200 can connect to an Access Point via Wi-Fi.

Network administrators can configure Wi-Fi parameters for the RXV200. The parameters are concealed from the user's view. Users can enable | disable Wi-Fi in the device's user interface.

Wi-Fi cannot be enabled | disabled using SSH command.

The Wi-Fi connection is transparent to users; which frequency is used, 2.4 GHz or 5 GHz, is made for users by the device; users cannot disable one or the other.

5.1.4.1 Connecting to an Available Wi-Fi Network

To connect to an available Wi-Fi network:



Make sure to first disconnect your Ethernet cable. If it's connected, the device will not be able to connect to a Wi-Fi network.

1. Under 'Settings', navigate to Wi-Fi and enable Use Wi-Fi.

÷	Settings	Wi-Fi		
Devic	e admin settings	118	e Wi-Fi	
ල්	Device Administration	03	e with	
٩	Display	▼	audc-ph	
0	Date & time	Ŷ	Amitush	
((•	Wi-Fi	Ŷ	MP264_Pilot	₿
*	Bluetooth	Ŷ	QA_automation_DMZ	
ු	Security	\bigcirc	DIRECT-20-HP Smart Tank 610	A
⊕	Languages & input			<u>ب</u>
۲	Camera	+	Add network	814

- 2. View a list of available connections.
- 3. Select the Wi-Fi network you want and enter the password.
- 4. View the network you selected 'Connected'.

5.1.4.2 Manually Connecting to a Wi-Fi Network

To manually connect to a Wi-Fi network:

()

Make sure to first disconnect your Ethernet cable. If it's connected, the device will not be able to connect to a Wi-Fi network.

1. Under Wi-Fi, select Add network and then enter the SSID of the network to add manually.

← Add network		
Network name		
		- ::-
Security		
None		
Advanced options		
	CANCEL	SAVE

2. From the 'Security' drop-down, select a security key strength (encryption method).

← Add network	
Network name	
	;; ;
Security	
None	
Enhanced Open	
WEP	
WPA/WPA2-Personal	
WPA3-Personal	
WPA/WPA2-Enterprise	
WPA3-Enterprise	

İ.

 Optionally meter the selected network. Leave the setting at its default value of Detect automatically if you don't want to meter the network. Select a Metered option to meter it.

← Add network	
Network name	
Security	
None	
Hidden network	
No	
Metered	
Detect automatically	
Proxy	
None	
IP settings	
DHCP	-

- Proxy' and 'DHCP' will automatically be configured by the network.
- Enabling the setting Turn on Wi-Fi automatically allows the device to automatically connect in the future to the highest signal-quality network remembered by the device.
 - As an alternative to manually configuring Wi-Fi settings via the device's user interface, you can configure the Wi-Fi settings described in Table 4, using the Configuration File.

Parameter	Description
network/wireless/adavanced_options/dns1	Defines the IP of the wireless DNS1.
network/wireless/adavanced_options/dns2	Defines the IP of the wireless DNS2.
network/wireless/adavanced_options/gateway	Defines the IP address of the wireless gateway
network/wireless/adavanced_ options/hidden_network	Defines the name of the wireless hidden network.
network/wireless/adavanced_ options/ip_addr	Defines the IP address of the static Wi-Fi network if you're operating with a static Wi-Fi network.
network/wireless/adavanced_ options/ip_settings	Used to define DHCP.
network/wireless/adavanced_ options/network_prefix_length	Defines the network prefix length to be used.
network/wireless/adavanced_options/proxy	Defines the proxy wireless server source.
network/wireless/adavanced_ options/proxy/auto_config/pac_url	Defines the URL of the PAC file.
network/wireless/adavanced_ options/proxy/manual/exclusion_list	Defines the list of IP addresses that will be blocked.
network/wireless/adavanced_ options/proxy/manual/proxy_ hostname	Defines the name of the proxy host.

Table 4: Configuration File Wi-Fi Parameters

Parameter	Description
network/wireless/adavanced_ options/proxy/manual/proxy_port	Defines the proxy port.
network/wireless/anon_identity	Defines the anonymous wireless users who won't be seen.
network/wireless/ca_cert	Defines which CA certificate to use.
network/wireless/client_cert	Defines which client certificate to use.
network/wireless/domain	Defines the domain name.
network/wireless/eap_method	Defines the EAP method.
network/wireless/identity	Defines the identity of the user.
network/wireless/password	Defines the password of the network.
network/wireless/phase2_method NONE,MSCHAPV2,GTC,PAP,MSCHAP	Defines the encryption method. Phase 2 applies only to the 802.1x EAP method.
network/wireless/security	Defines the security method (encryption protocol).

5.1.5 Configuring Camera Settings

Settings controlling the look and feel of the video UI can be set to suit individual preferences.

To configure Camera settings:

1. In RX-PAD under 'Device admin settings', navigate to and select Camera.

÷	Settings	Camera
User		Camera settings
40	Sound	₽,
Ĭ	Accessibility	
{}	Reboot	
(i)	About	
Device	e admin settings	
⋳	Device Administration	
٩	Display	
C	Date & time	
♥	Wi-Fi	
ē	Camera	

2. Navigate to and select **Camera settings**; the video stream is played and the following is displayed on the right side of the screen:



3. Create and edit presets using PTZ control. For more information, see here.

5.1.6 Selecting RXVCam70 PTZ Camera Tracking Mode



Applies exclusively to RX-PAD bundled with RXV200.

To select a Tracking Mode:

1. Open the Edit Preset page (Camera Settings > Room > Edit Preset).

← Camera Settings	~	() Limited access
Presets	EDIT PRESET	
Room	Active Preset	:
Active Preset	ුදු Tracking Mode	
+ Create Temporary Preset	Manual	O AutoFraming O Speaker Tracking
	O Smart Gallery	
	ඥ Zoom	
	+	^
	0%	< >
	·	~

- 2. Select one of the following RXVCam70 camera tracking mode options:
 - Manual
 - Auto Framing (default)
 - Speaker Tracking
 - Smart Gallery

See the next step for a description of each tracking mode.





5.1.7 Selecting RXVCam360 Camera Tracking Mode



To select a Tracking Mode:

1. Open the Edit Preset page (Camera Settings > Presets > Room > Edit Preset).

← Camera Settings	~	
Presets	EDIT PRESET	
Room		:
+ Create New Preset	ි. Tracking Mode	
	Manual	O Speaker Tracking O Smart Gallery
	O Discussion	O Panoramic
	🗇 Zoom	
	+	^
	0%	< >
	·	 Image: A second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

- 2. Select one of the following RXVCam360 camera tracking mode options:
 - Manual
 - Speaker tracking
 - Smart Gallery (default)
 - Discussion
 - Panoramic



3. Use the following as reference:





5.1.8 Limiting Resolution

Admin can limit HDMI resolution and Frames per Second (FPS) for debugging purposes.

To limit HDMI resolution and FPS:

Open the Display page as shown in the figure below and perform the configuration:

	Settings	Display	
		Screen timeout After 30 minutes of inactivity	
•)	Sound	Resolution	
Ţ	Accessibility	3840x2160-30fps	
{}	Reboot	Font size Default	
(j	About device	Screen saver	
			-
ර	Device Administration		
٩	Display	QColor QTI enhanced color mode	
0	Date & time		
(•	Wi-Fi		
Å	Rhietooth		
*	Settings	Display	
¢	Settings	Display Screen timeout	
¥ ~	Settings USER Sound Resolution	Display Screen timeout	
<	Settings USER Sound Resolution Access (© 3840x2160-30fps	Display Screen timeout	
	Blustooth Settings USER Sound Resolution Access Image: Comparison of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set of the set o	Display Screen timeout	
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 € ●) 1 /ul>	Bluistooth Settings USER Sound Resolution Access 3840x2160-30fps 3840x2160-25fps 3840x2160-24fps About c 1920x1080-60fps 	Display Screen timeout	
÷ ↔ ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	Bluistooth Settings USER Sound Resolution Access 3840x2160-30fps 3840x2160-25fps 3840x2160-24fps About c 1920x1080-60fps 1920x1080-50fps 	Display Screen timeout	
 /ul>	Bilinatoch Settings USER Sound Resolution Access Image: Comparison of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state o	Display Screen timeout	•
 ↓ /ul>	Billistocht Settings Sound Resolution Access Image: State of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	Display Screen timeout	
 ↔ /ul>	Build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build out build	Display Screen timeout	
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5.1.9 Configuring Teams Admin Settings

Camera Settings adjustment is now supported via **Device Settings** > **Teams Admin Settings**. AudioCodes Camera Settings are synced with Teams Room Camera Settings.

The figure below shows how to control camera settings via the Teams Admin Settings.

\leftarrow	Teams Admin Settin	js 🗸	
L.		← Room Camera	
G		Automatic framing	•
		の Automatically center and focus o Room everyone in the room.	nc
		Automatically center and focus of Active speaker person talking.	nc
		88 Zoom in on each person in the ro then combine them into a single view.	om,

5.1.10 Configuring Camera Frequency

The **Camera frequency** (under **Device settings**) must be set per the power supply as follows:

- 110V 60Hz
- 220V 50Hz

\leftarrow	Settings	Camera
User		Camera settings
•	Sound	Camera frequency
	Reboot	
í	Camera frequency	
Device a	50 Hertz	
4	O 60 Hertz	
(٢)		
C	Date & time	
▼	Wi-Fi	
٥	Camera	

5.1.11 Configuring UI Language & Input

This setting allows users to customize inputting to suit personal requirements.

To set language and input:

1. Under 'Device admin settings', navigate to and select Languages & input.

÷	Settings	Languages & input
⋳	Device Administration	ズA Languages English (United States)
ŷ	Display	Keyboard & inputs
0	Date & time	Virtual keyboard Android Keyboard (AOSP)
▼	Wi-Fi	
٢	Camera	Physical keyboard LITE-ON Technology USB NetVista Full Width Keyboard.
*	Bluetooth	
⋳	Security	
(Languages & input	

- 2. Navigate to and select **Physical keyboard**. Settings Eanguages & input Physical keyboard Physical keyboard •) Sound LITE-ON Technology USB NetVista Full Width Keyboard. İ Accessibility Reboot Keyboard assistance (j) About Show virtual keyboard ۲ Keep it on screen while physical keyboard is active Device admin settings Keyboard shortcuts helper ⋳ Device Administration Display available shortcuts $\langle \mathbf{0} \rangle$ Display Date & time Wi-Fi ۲ Camera
 - 3. Navigate to and select Show virtual keyboard.

5.1.12 Modifying IP Network Settings

This setting enables the Admin user to determine IP network information and to modify IP network settings.

To modify network settings:

1. Under 'Device admin settings', navigate to and select **Modify network**.

÷	Settings	Modify network
₿	Device Administration	IP address fe80::2980:1cd8:ccd8:c0d3
✨	Display	10.22.13.32
S	Date & time	IP settings DHCP
♥	Wi-Fi	Network state: Connected
٢	Camera	Proxy
*	Bluetooth	802 1x Settings
₿	Security	VI AN Settings
⊕	Languages & input	
<i><</i> >	Modify network	

- 2. Navigate to and select:
 - IP Address [Read Only]
 - IP Settings [DHCP or Static IP]

IP settings		
• DHCP		
Static		
	CANCEL	ок

• Network state [Read Only]

•	P	roxy				
	←			Proxy		
	Prox	y hostnam	ıe			
	Prox	y port				
	Вура	ss proxy f	for			
	D	ONE	CLEAR	RESTORE DEFAULTS		
ļ						

- Manually (from the screen shown in the preceding figure). Allows you to configure the RXV200 with an HTTP proxy server. Configure the proxy hostname and proxy port and then navigate to and select **Done**.
- **DHCP Option 252** (recommended). Option 252 provides a DHCP client with a URL to use to configure its proxy settings:

Reservation Options 🛛 ? 🗴				
General Advanced				
Available Options	Description 🔺			
120 UCSipServer	Sip Server F			
□ 121 Classless Static Routes	Destination,			
□ 160 Audiocodes 160 Option	Audiocodes			
✓ 252 wpad-url	-			
Data entry String value: http://10.37.4.99/proxy.pac				
OK Cancel	Apply			

The proxy setting is provided in a Proxy Auto-Configuration (PAC) file that contains a set of rules coded in JavaScript which allows a web browser to determine whether to send web traffic directly to the Internet or to be sent via a proxy server. PAC files control how the phone handles HTTP, HTTPS, and FTP traffic. Example of a basic PAC file:

```
function FindProxyForURL(url, host)
{
return "PROXY 10.13.2.40:3128";
}
```

• 802.1x Settings [Allows enabling 802.1x]

802.1X Authentication is the IEEE Standard for Port-based Network Access Control (PNAC). See <u>https://1.ieee802.org/security/802-1x/</u> for more information.

- VLAN Settings
 - Allows you to configure 'VLAN Discovery mode' to Manual configuration, Automatic configuration (CDP), Automatic configuration (LLDP) or Automatic configuration (CDP+LLDP)]

VLAN	VLAN Discovery mode			
	Disabled			
	Manual configuaration			
	Automatic configuration (CDP)			
	Automatic configuration (LLDP)			
۲	Automatic configuration (CDP+LLDP)			
		CANCEL	ОК	

Cisco Discovery Protocol (CDP) is a Cisco proprietary Data Link Layer protocol Link Layer Discovery Protocol (LLDP) is a standard, layer two discovery protocol

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The VLAN configuration is by default **data VLAN** rather than voice VLAN, in compliance with the requirement specified <u>here</u> for the device not to advertise itself as a voice device. The default CDP/LLDP configuration is **data VLAN**.

Allows you to configure 'VLAN Interval'.

VLAN Interval		
Enter VLAN Interval (range 1 to 3600)		
	CANCEL	ок

'VLAN interval' refers to CDP/LLDP advertisements' periodic interval. Default: 30 seconds. You can increase or decrease the intervals between the CDP/LLDP packets that are sent, based on network traffic and topology.

In versions before 1.19, if network VLAN mode '/network/lan/vlan/mode' was set to LLDP, the device retrieved the VLAN and LLDP switch information (for location purposes) from LLDP.

 From version 1.19, LLDP switch information (for location purposes) is retrieved when parameter network/lan/lldp/enabled=1 (even when VLAN is retrieved from CDP or VLAN is disabled or VLAN is Manual).

5.1.13 Configuring Call Settings

This setting enables the user to configure call-associated functionalities to suit personal preferences.

To configure call settings:

1. From the home page, navigate to and select **More** and then navigate to and select **Settings**.

Calling			
Calling			

2. Navigate to and select Calling.

	Calls AudioCodes Ltd	
Call	forwarding	•
Also	rîng	Off
If un	answered v	oicemail
	nge voicemail greetings mails will show in the calling app with audio playback and transcript	
Calls	s for you	Default
Forw	varded calls	Default
Dele	gated calls	Default
Bloc	k calls with no caller ID	

- In the Calls screen, navigate to and select:
 - Call forwarding to enable automatically redirecting incoming calls to another destination.
 - Also ring to configure other phones to ring on incoming calls; only displayed if Call forwarding is disabled.
 - If unanswered to configure the destination to which unanswered calls will be sent; only displayed if Call forwarding is disabled. Select either Off, Voicemail, Contact or number.
 - **Calls for you** to configure the ringtone played on your phone when calls come in.
 - Forwarded calls
 - **Delegated calls** to configure the ringtone played to delegates.
 - Block calls with no caller ID to block calls that do not have a Caller ID.

In the 'Settings' screen you can optionally configure the following User settings: Sound, Accessibility, Reboot and About (read-only).

5.2.1 Setting the Volume

You can customize phone volume for a friendlier user experience.

To configure sound settings:

Under 'User', navigate to and select **Sound**.

÷	← Settings		Sound	
User		ſ	Media volume	
•)	Sound			
Ť	Accessibility	¢	Ring volume	
{}	Reboot			
í	About		Þ	

5.2.2 Configuring Accessibility Settings

This option allows users to customize the screen to be reader-friendlier.

To configure the Accessibility setting:

1. Under 'User', navigate to and select Accessibility.

÷	Settings	Accessibility
۹)	Sound	Font size Default
Ĭ	Accessibility	High contrast text
{ }	Reboot	Color correction
í	About	Off

2. Adjust the settings to suit personal requirements.

5.2.3 Setting Live Captions

Live Captions can be set in regular one-on-one calls as well as in Teams meetings.

5.2.4 Enabling Display of Meeting Name using Exchange Online PowerShell

PS C:\Users\waynea> Get-CalendarProcessing -Identity Maxim_MTR | FL AutomateProcessing : AutoAccept AllowConflicts : False : True AllowDistributionGroup AllowMultipleResources : True BookingType : Standard BookingWindowInDays : 180 : 1440 MaximumDurationInMinutes MinimumDurationInMinutes : 0 AllowRecurringMeetings : True EnforceAdjacencyAsOverlap : False : False EnforceCapacity EnforceSchedulingHorizon : True ScheduleOnlyDuringWorkHours : False ConflictPercentageAllowed : 0 MaximumConflictInstances : 0 ForwardRequestsToDelegates : True DeleteAttachments True DeleteComments False Remover ivate DeleteSubject : False False AddOrganizerToSubject DeleteNonLalendaritems Irue TentativePendingApproval True True EnableResponseDetails OrganizerInfo True ResourceDelegates {} {} False RequestOutOfPolicy AllRequestOutOfPolicy BookInPolicy {) True AllBookInPolicy RequestInPolicy : {} : False AllRequestInPolicy AddAdditionalResponse True AdditionalResponse This is a Microsoft Teams Meeting room! RemoveOldMeetingMessages True AddNewRequestsTentatively True ProcessExternalMeetingMessages True RemoveForwardedMeetingNotifications False AutoRSVPConfiguration Microsoft.Exchange.Data.Storage.AutoRSVPConfiguration RemoveCanceledMeetings False EnableAutoRelease False ostReservationMaxClaimTimeInMinutes : 10 MailboxOwnerId Maxim_MTR Identity Maxim_MTR IsValid True bjectState : Changed

See <u>here</u> for information about how to access the exchange instance (the tenant). Admin must set the two parameters indicated in the figure below to 'False':

'Identity' is the name of the account to which admin wants to apply these two settings:

- Set-CalendarProcessing -Identity "Maxim_MTR" -DeleteSubject \$false
- Set-CalendarProcessing -Identity "Maxim_MTR" -AddOrganizerToSubject \$false

5.2.5 Hiding Names and Meeting Titles

You can hide information such as names and meeting titles for individual devices via the Meetings page (More > Settings > Meetings):

← Meetings	
 Show meeting names 	•
Proximity meeting join	
☐ Allow remote control of room system	

5.2.6 Rebooting RXV200

Rebooting allows you to exit from and reconnect without needing to sign in again.

To reboot:

Under 'User', navigate to and select **Reboot**.

Reboot	
Are you sure you want to reboot the device?	
CANCEL OK	

5.2.7 Viewing About RXV200

The 'About' screen gives you quick access to information about the RXV200 deployment.

To access the About screen:

1. Navigate to and select About device.

÷	Settings	About device More
4)	Sound	Android Security Patch Level 2022-03-05
Ţ	Accessibility	Android Version
\bigcirc	Power saving	12
{}	Reboot	Firmware Version 2.0.151
L	Touch screen	
í	About device	

2. Navigate to and select Status.

÷	Settings	← About Status
•)	Sound	IP address fe80::2980:1cd8:ccd8:c0d3
Ĭ	Accessibility	10.22.13.32
{}	Reboot	Wi-Fi MAC address 34:f1:50:8e:3e:5f
í	About	MAC address 00:90:8F:C8:B0:19
Device	admin settings	
⋳	Device Administration	Bluetooth address 34:f1:50:8e:3e:60
٩	Display	Serial number DB13152281
0	Date & time	Up time
•	Wi-Fi	50:46:03
٥	Camera	
\$	Diverte ette	

- 3. View the RXV200's firmware information.
- 4. Admins can monitor the status of the device's software modules from the System State page.

6 Monitoring Modules Operational States

AudioCodes provides out-of-the-box troubleshooting capability: Admins can monitor the state of the device's modules from the System State page. If initial provisioning is unsuccessful or if admin encounters an issue related to the network / connection to Device Manager, the feature gives admin an indication as to why.

The feature enables debugging via the device's screen without requiring external systems. Admin can check connectivity independently of external apps.

To monitor the device's modules states:

• Open the System State page (Settings > Debugging > System State).



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Each state displays its operational result: Successful or FailedFor some states, the reason for failure will be displayed as well.

÷	Settings	← Debugging System State
ර	Device Administration	Connect To Device Manager Running, connected to https://ippdm.audiocodes.com:443/
邻	Display	Get Certificate By SCEP
S	Date & time	Didn't run
((•	Wi-Fi	Get Certificate By HTTP Ran once with fail result, Reject response. Return code: 600
*	Bluetooth	Firmware Update Didn't run
ţ	USB	Configuration Undeto
0	Power saving	Didn't run
ර	Security	Redirect Didn't run
	Languages & input	Apps Update Didn't run
< >	Modify network	Peripheral Devices Firmware Update

(i)

Each state displays its operational result - successful or failed.For some states, the reason for failure will be displayed as well.

7 Advanced Features

7.1 Using Composite AI Camera

The RXV200 supports composite AI camera technology. **Composite AI** enhances video conferencing by intelligently combining streams from two cameras into a single, seamless layout. This innovation ensures remote participants gain an optimized and immersive view of the meeting room and its participants.

This feature applies to the following setups:

- RXV200 with RXVCam70: Combines streams from the RXVCam50 (full-room view) and RXVCam360 (Smart Gallery mode).
- RXV200 with RXVCam360 and RXVCam50: Utilizes the dual cameras of the RXVCam70: the wide-angle camera (full-room view) and the mechanical camera (Smart Gallery mode).

Key capabilities:

- Enhanced room visibility: Provides a comprehensive view of the meeting room capturing all participants clearly.
- Intelligent Layout: Automatically arranges the combined streams into a cohesive and intuitive layout.
- Manual Layout adjustment: Allows users to resize room view and enable or disable room view or smart gallery.
- Adjustment of Individual Camera Settings: Allows users to adjust each individual camera, for example, brightness and saturation, without leaving the Room Composite Al Layouts.
 - Composite AI is disabled by default.
 - Changing the Composite AI settings (layout, enabling/disabling Smart Gallery, or Room View) in idle state (no active meeting) can only be done by the Admin. During an active Teams meeting, both admin and non-admin users can change the Composite AI settings. Once the meeting ends, these settings automatically revert to the system's pre-configured defaults.
 - During a meeting, only the admin can disable the Composite AI mode.
To enable composite AI:

1. On the RX-PAD, navigate to **Device Settings** > **Camera Settings** as an Administrator, and then tap the **Composite Al Camera** toggle button so that it is on:

← Camera	*
Composite Al Camera	•
Room Composite AI Layout settings	
Camera settings	

The following pop-up displays on the screen that the RXV200 is connected to:



2. Tap Room Composite AI Layout Settings to choose the layout:

← Camera	~	
Composite Al Camera		
Room Composite AI Layout settings		
Camera settings		

The connected camera stream opens. On RX-PAD, the layouts are displayed as shown below:



Ron Composite Al Layout settings

Smart galler

Meeting room

Image: Composite Al Layout settings

Meeting room

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

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Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

Image: Composite Al Layout settings

<

In the RXV200 screen (when RXV200 is connected to RXVCam70), the main camera is in the center of the screen and the wide-angle camera at the lowermost left.

3. Disabling 'Room view' closes the wide-angle camera and centers the main camera feed in the screen.



4. To close the main camera and center the wide-angle camera feed in the screen, disable the **Smart gallery**.



- 5. Using the scaling bar shown in the preceding figure to control the ratio between the main camera size and the wide-angle camera size; move the slide bar to adjust the size
- 6. of the Meeting room view accordingly.

7. To adjust the settings (e.g., brightness and saturation) of a specific camera, click its icon:



When connected to the RXVCam360 and RXVCam50 the screen below displays:



7.2 Selecting Presenter in Tracking Mode for Non-Composite AI

In **Camera Settings**, when Composite AI is disabled, you can select the presenter you want the camera to track.

To select a presenter to track:

- 1. On the RX-PAD, navigate to **Device Settings** > **Camera Settings** as an Administrator.
- 2. Open the Edit Preset page (Room > Edit Preset).
- 3. Under Tracking Mode, select the Presenter Tracking option.
- 4. Use the right-left arrows to choose the presenter. The presenter is accepted after a timeout of a few seconds, following the marking of the person in the room.

Camera Settings		
Cameras	EDIT PRESET	People Tracking Please select tracking target, Press the OK key to start tracking
	Room	
RXVCam70 Wide	ලි Tracking Mode	
Presets	O Manual O AutoFraming O Speaker Tracking Presenter Tracking O Smart Gallery	
	운 Select presenter	
+ Create New Preset		
	Brightness 50%	
	-\$*	
	Contrast 50%	

7.3 Setting Up RXV200 using Wizard

You can use the new wizard for an Out-of-Box (OOB) experience.

To set up RXV200 using wizard:

1. When you set up a paired MTRA (RXV81/RXV200 and RX-PAD), the RX-PAD prompts you to select the language:

Languages	~
עברית (ישראל) Main language	
Deutsch (Deutschland)	
English (United Kingdom)	
English (United States)	
Español (España)	
Français (Canada)	
Français (France)	
Italiano (Italia)	
Magyar (Magyarország)	
Nederlands (Nederland)	

2. The MTRA prompts you to connect to an input device if there is not one already connected. An Input device can be an RX-PAD or a touch screen (or RCU in case it is part of the RXV81 bundle):

	Please connect one of the	e following	
Pair the l	RX-PAD with RXV200-RX00118130	Touch screen	

After you select the language, the AudioCodes Pairing page is displayed: 3.

Audi	oCodes Pairing	
Devic RXPac	e name -RX00115988	
Availa	ble devices	
	RXV200-RX00118130 Available	
	RXV81-CE00376672 Available	•
	RXV81-CV14589314 Available	
	RXV81-CE00377788 Available	•
		SKIP
	4. Tap the selected MTRA, the following prompt is displayed:	

Tap the selected MTRA, the following prompt is displayed:

Audi	oCodes Pairing	~			
Devic RXPad	e name I-WS14212760				
	RXV200-RX0011815 Request pairing	Connect to AudioCodes device?			
	RXV81-CV14589872 Available	Connect to RXV200-RX00118154.	CANCEL	ок	

5. Tap **OK** to confirm: the RX-PAD finalizes the pairing process and assigns the appropriate bundle with the MTRA.



6. If you need to choose a bundle (for example, RXV200 with RXVCam360), the RX-PAD displays the **Bundle** screen:

7. After this process is completed, the following screen is displayed showing the code you need to sign into your Microsoft account. The sign-in displays on both devices:

Welcome to Microsoft Teams!	හි
Step 1. On your computer of mobile, go to https://microsoft.com/devicerogin	
Step 2: Enter the code below to sign in.	
GFZPKPMZM	
Sign in on this device	

8. Sign in to your Microsoft account.

7.4 Content Camera Framing on a Whiteboard

Presenters can share their physical whiteboard with remote participants using the **Content Camera** feature. To optimize the view, use **Transform settings** to define and capture the area precisely, isolating the whiteboard and removing unwanted margins beyond its edges.

Before starting, the admin must confirm the RXVCam10-CC is set as the content camera in **Teams** Admin Settings > Devices:

÷	Teams Admin Setting	s
1 1 1		← Content Camera
	Meetings	
G	Devices	Source
_ +	Teams sign out	Select a camera
		No content camera 🗸
		HD Camera RXVCam10

To share content:

1. Navigate to Content Sharing > Transform settings:

÷	Settings	Content Sharing Settings
ţļ	Room control	Transform settings
0	Power saving	
ර	Security	
⊕	Languages & input	
තු	Bundle	
0	AudioCodes Pairing	
ණ	Teams Admin Settings	
® (Camera	
¢	Content Sharing	
⟨ ⟩	Modify network	

2. Use the four joysticks on the RX-PAD to adjust the boundaries of the content camera's capture area:

÷	Settings	Content Sharing Settings Transform S	ettings
讲	Room control		
0	Power saving		
ර	Security		
⊕	Languages & input		
ŝ	Bundle		
Ø	AudioCodes Pairing		
ক্ট্য	Teams Admin Settings		
	Camera		
	Content Sharing		
<···>	Modify network	EDIT	PLY DECLINE

The admin can view the adjustment on the display:



3. When the desired shape is chosen, tap **Apply** to confirm. The shape can now be cut out and displayed on the screen:

Hello World. Audiocodes \Box ¢

- 4. To edit or delete the shape, return to the **Transform settings** screen.
- 5. In the Teams meeting, the user can share content from the connected camera:



7.5 Pairing Devices

Î

You can control your paired MTRA devices with the current RX-PAD and decide which MTRA you wish to pair, or unpair with on a current connection.

Teams unpairing must occur prior to pairing with a new MTRA device.

To pair a device:

1. Navigate to Settings, and then tap AudioCodes Pairing.



2. Tap the i icon to view the information of the paired device from RX-PAD). For example, the IP address, device model, MAC address:

÷	Settings	AudioCodes Pairing Device details for Meron_F12's RXV200	
ψ	USB	Status Connected	
ţ <u>Ļ</u>	Room control		
0	Power saving	Roles Front of room	•
ර	Security	Audio device	•
⊕	Languages & input		
ŝ	Bundle	IP Address 10.22.13.135	
Ø	AudioCodes Pairing	BLE Address	
තු	Teams Admin Settings	22:22:C3:87:A0:B5	
®	Camera	Meron_F12	
‹·· >	Modify network	Lock State UNLOCK	

3.	Navigate to Teams Admin Settings > Devices menu to break a currently paired set and pair a new MTRA. Admin must unpair the devices at the Teams level.		
	AudioCodes Pairing		

	Settings		AudioCodes Pairing		
	USB		AudioCodes Pairing		
	Room control		AddioCodes Pairing		
	Power saving		Device name RXPad-RX00116400		
ſ	Security	Unable to con	inect		
	Languages & input	Device is paired o	on Teams level		
	Bundle			ок	
Ø	AudioCodes Pairing				
	Teams Admin Setting		RXV200-RX00125353		
¢,	Camera				
	Modify network				

7.6 Modifying RXV81 Connection to BYOD Bundles

Connect your RXV81 to BYOD bundles which is MTR-ready.

To modify RXV81 to new BYOD bundles:

- 1. Navigate to Settings > Bundle.
- 2. Tap the Bundle you want to connect to:

÷	Settings	Bundle	
*	Bluetooth		
ψ	USB		
†#	Room control	RXVBI RX-PAD RX15	
0	Power saving	BYOD Bundles	
ර	Security		
⊕	Languages & input		
ŝ	Bundle	RXV81 RCU	
0	AudioCodes Pairing		
र्छ	Teams Admin Settings		
(Camera	RXV8I RX-PAD	

3. The Select bundle confirmation window is displayed. Tap OK to confirm.

		Bundle	
	Bluetooth		
	USB		
	Room control	RXV81 RXV81 RX-PAD RX15	
	Power saving	Select bundle	
£	Security	This will change the current bundle set for this device. Do you want to continue? Note: Moving from BYOD to MTR or from MTR to BYOD will trigger a factory reset.	
٢	Languages & input	CANCEL OK	
	Bundle	RXVe1 RCU	
	AudioCodes Pairing		
	Teams Admin Settings		

Using the ad-hoc option under Teams mode is still possible when connecting the RXV81 with USB-C cable to a laptop.

Important note: Changing this setup 'on the fly' triggers a factory reset on the MTRA.

7.7 Dual Touch Screen Orientation [Applies to RXV200]

When two touch screens connect to the MTRA they can simultaneously display.

To display two screens:

1. In the Out-of-Box phase, connect both screens and their USB cables to the RXV200 before the device is booted. The following screen is displayed:



The screens display before every other phase only when the touch screens are connected.

2. Tap each **Click Here** button: a tick is displayed on each button:



The UI now displays the language phase options.

For a new installation, the dual touch GUI pops up when the setup has two screens, also for a single touch (to know to which screen this touch belongs).

Dual Display Mode and Swap Screens Admin Controls Pro 7.8

This feature is for RX-PAD paired with RXV200 only, and for a Pro room account, as described below. The devices must run the following Teams app version or later -1449/1.0.96.2024110701 (November 2024).

Admins can configure Teams Rooms on Android devices to run in dual display mode and to switch the screens in these rooms when set up invertedly as front-of-room display. This can be done without physically disconnecting and reconnecting the HDMI OUT cables from the RXV200.

To disable dual display mode or switch screens:

1.	Tap Teams Admin Settings > General:	

\leftarrow	Teams Admin Settin	igs	*		
		←	General		
	Meetings	Fron	t of room display		
G	Devices	3	Background		
⊡≯	Teams sign out		Enable touchscreen controls		
		Ŝ	Enable if the room has touchscreen displays.		
			Turn on dual display mode		
			Swap screens		
			The device may restart when you enable this setting.	-	
			Touchscreen controls, if available or enabled, will move to the other display. Make sure that the other		

7.9 HDMI Input Source Features

This section describes HDMI Input (HDMI IN) source features.

7.9.1 Monitoring Wireless HDMI IN Service

You can monitor the HDMI IN source.

To monitor HDMI IN:

- 1. Navigate to Settings > Debugging > System State.
- 2. Check the status of the Wireless HDMI IN service. The following shows a Connected status:



7.9.2 Automatic HDMI Source Selection

This feature improves user experience when multiple HDMI-IN inputs are used, typically involving both a physical HDMI-IN input and a wireless HDMI-IN (from an RX-PAD).

- When a new HDMI-IN input is connected during a sharing session, it automatically becomes the current active source.
- When an HDMI-IN input is unplugged, the remaining connected HDMI-IN source automatically becomes the active source.

8 Debugging

Admin users can perform debugging for troubleshooting purposes.

To perform debugging:

1. In the Settings screen under **Device administration**, select **Debugging**.

÷	Settings	Debugging
⋳	Device Administration	Log settings
€	Display	Remote Logging
C	Date & time	Diagnostic Data
♥	Wi-Fi	Reset configuration
٥	Camera	Restart Teams app
*	Bluetooth	Company portal login
₿	Security	Launch mobile teams
⊕	Languages & input	Debug Recording
‹·· >	Modify network	Erase all data (factory reset)
Ľ	Calling	ADB

- 2. Use the following debugging features available to Admin users:
 - Log settings (see Log Settings | Collecting Logs)
 - Remote Logging (see Remote Logging)
 - Diagnostic Data (see Diagnostic Data)
 - Reset configuration (see Reset configuration)
 - Restart Teams app (see Restart Teams app)
 - Company portal login (see Company Portal Login)
 - Launch mobile teams (see Launch Mobile Teams)
 - Debug Recording (see Debug Recording)
 - Erase all data (see Erase all data (factory reset)
 - Screen Capture (see Screen Capture)

8.1 Log Settings | Collecting Logs

Device diagnostics (Logcat) can be collected using the Microsoft Admin Portal. For support purposes, general logs can be collected also using the Microsoft Admin Portal. The logs can help debug Teams application issues and also for issues related to the device.

To configure log settings:

1. In the **Debugging** screen, select **Log settings**.

Debugging Log settings
Log Level
Log Package Filter
Log Tag Filter
Log Buffer Filter
Current filter for logs logcat

- 2. Navigate to and select Log Level and then select either Verbose, Debug, Info, Warning, Error, Assert -or-None
- 3. Navigate to and select Log Package Filter and enter the filter.
- 4. Navigate to and select Log Tag Filter and enter the filter.
- 5. Navigate to and select Log Buffer Filter.

Log E	Log Buffer Filter					
	Radio buffer					
	Events buffer					
	Main buffer					
	System buffer					
	Crash buffer					
	View all buffers					
	Default - main, system and crash buffers					
			CANCEL	ок		

6. Navigate to and select Current filter for logs.

To collect logs:

- **1.** Reproduce the issue
- 2. Access Microsoft Admin Portal and under the **Devices** tab click the **Diagnostics** icon.

	Office 365 Microsoft Te	sams admin center		
	=	Dashboard \ Manage devices \ audiocodes-c450hd sc10	155532	
ଭ	Dashboard			
885	Teams	audiocodes-c450hd sc10155532 O	nîne.	
8	Devices 🔨	15 2 Optimistic Optime Br		
	Manage Devices	D O	sh_OnlineAuto7	
•	Locations	Last seen	Organization attest tag	
පි	Users	Manufacturer and model	OEM serial number	
薗	Meetings ~	AudioCodes - C450HD	sc10155532	
	Messaging policies			
<i>6</i> 1	Analytics & reports	Details History		
۲	Org-wide settings \sim			
3	Legacy portal 15	Software update status	Notes	
@	Call quality dishboard 15	Firmware Audio Codes Firmware	Update	
6	Firstline Worker configu	CASOHD_TEAMS_0.218 Updated on Feb 27, 2019, 2:00 AM		
224		App Audiocodes Partner Agent 1.0.26 Updated on Feb 11, 2019, 200 AM	Update	

The preceding figure is for illustrative purposes. It shows an AudioCodes phone. The same screen is displayed for the RXV200.

3. Click the Diagnostics icon. The Device diagnostics windows displays:



4. Click **Proceed**; the logs are uploaded to theserver:



5. Click the History tab.

	Office 365 Microsoft Te	eams admin center				
	≡	Dashboard \ Manage devices \				
ଭ	Deshboard					
885	Teams					
8	Devices 😪	D O		User		
۲	Locations	Last seen		Organização, ester tag		
88	Users	-		-		
Ē	Meetings v	Manufacturer and model		-		
9	Messaging policies					
41	Analytics & reports					
۲	Org-wide settings 🛛 🗸	Details History				
\$	Legacy portal 12					
۵	Call quality dashboard 13	History				
9	Firstline Worker configu	Action	Details	Modified on	Diagnostics file	
		Device Diagnostics	Completed	Mar 7, 2019, 4:14 PM	Download	

6. Click **Download** to download the logs.

8.2 Remote Logging

Remote Logging via Syslog provides the same log level as Device Diagnostics (performed via the Microsoft Admin Portal) with some additional information that may be relevant to device issues (not Teams application issues).

Diagnostics via the Microsoft Admin Portal are saved to the device sdcard and collected after the event. Remote Logging via Syslog is different. The logs are collected in real time.

To enable Remote Logging via Syslog:

1. Navigate to and select Remote logging.

← Debugging Remote Logging	
Remote IP address	
Remote port 514	
Remote Logging Remote logging is now disabled	

2. Configure the **Remote IP address** and **Remote port** and enable **Remote Logging**; the device starts sending logs to the Syslog server.

Network administrators can also enable Syslog using Secure Shell (SSH) protocol.

To enable Syslog using SSH protocol, type the following command at the shell prompt:

setprop persist.ac.rl_address <syslog_server_ip>:<port>.

To disable Syslog using SSH, type the following command at the shell prompt:

```
setprop persist.ac.rl address ""
```

8.3 Diagnostic Data

Admin users who need to get logs from the device can dump the logs to the phone's Secure Digital (SD) Card and then later collect them using Secure Copy Protocol (SCP) based on Secure Shell (SSH) protocol. Whenever an issue occurs, the Admin can dump the logs into the SD Card.

To use the tool:

1. Navigate to and select Diagnostic Data.

Diagnostic Data		
Copy logs to sdcard?		
	CANCEL	ок

- Navigate to and select OK to confirm 'Copy logs to sdcard'; the RXV200 creates all necessary logs and copies them to the its SD Card / Logs folder.
- 3. Get the logs using SCP notation as follows: scp -r admin@host IP:/sdcard/logs/.

Following are the relevant logs (version and ID may be different to those shown here):

- dmesg.log
- dumpstate-TEAMS_1.3.16-undated.txt
- dumpstate_log-undated-2569.txt
- logcat.log

8.4 Reset configuration

Admin users can opt to 'clean up' their configuration history and return the RXV200 to an Out of Box Experience (OOBE). If the Teams app isn't running well, this might help.

To reset the configuration:

1. Navigate to and select Reset configuration.



2. Navigate to and select **OK**; all data is erased and default factory settings are restored but signin is retained.

See also <u>here</u>.

8.5 Restart Teams app

If the Teams application freezes or malfunctions, a good way to resolve this is to restart the app.

To restart the Teams app:

Navigate to and select **Restart Teams app**; only the Teams app is restarted.

8.6 Company Portal Login

← Device Details	1
alant_Android_12/1/2020_12:55 PM EXX®0 This is the device you're currently using.	
Original Name alanr, Android, 12/1/2020, 12:55 PM	
Operating System Android	
Ownership Type Personal	
Learn More	
Device Settings Status In Compliance Last checked: December 6, 8:43 AM	
Check device settings	

ENABLE

8.7 Getting Company Portal Logs

Company Portal logs help network administrators when there are issues with signing in to Teams from the phone.

To get Company Portal logs:

- 1. Reproduce the issue (logs are saved to the device so you first need to reproduce the issue and then get the logs).
- 2. Log in to the RXV200 as an Administrator and then go back.
- 3. Navigate to and select the **Debugging** option.
- 4. Navigate to and select Company Portal login.
- 5. In the **Device Details** screen that opens, navigate to and select **Settings**:

← Device Details	Settings
alarr_Android_12/1/2020_12:55 PM	About
Device settings meet polcy requirements.	
Original Name alanr, Android, 12/1/2020_12:55 PM	
Operating System Android	
Ownership Type Personal	
Learn More	
Device Settings Status In Compliance Last checked: December 6, 08:43	
Check device settings	
I	
← Settings	
Usage Data Allow Microsoft to collect performance and usage data to help improve Microsoft products and services.	(1)
Learn More	
Battery Optimization	
Turn off battery optimization You can turn off battery optimization for the Company Portal and the Microsoft Authenticator app for better performance of work or school apps that sync email or data.	
Learn More	TURN OFF
Troubleshooting	
Verbose Logging Allow the Company Portal and Intune managed apps to record future actions in greater detail, which may help your company support better identify and solve issues.	
Automatic Crash Reporting	
Automatically report errors to Microsoft.	
Diagnostic Data Copy logs to SD card.	
	COPYLOGS
Management Policy Sourceure device with the latest policies from AudioCodes Ltd.	
	SYNC
Enable browser Access Install Work Account extificate. You might be prompted for system permissions. Install Work Account extificate. You might be prompted for system permissions.	

6. Navigate to and select **Copy Logs**.

Company portal logs are copied to:

sdcard/Android/data/com.microsoft.windowsintune.companyportal/files/

7. To pull the logs, use ssh:

scp -r admin@hosp_ ip:/sdcard/android/data/com.microsoft.windowsintune.companyportal/files/



Files are quite heavy so you may need to pull them one by one.

8.8 Launch Mobile Teams

'App not found'. N/A in this release.

8.9 Debug Recording

This feature enables Admin users to perform media/DSP debugging.



DSP recording can be activated on the fly without requiring the network administrator to reset the phone.

To reset the configuration:

1. Navigate to and select Debug Recording.

Debugging Debug Recording	
Remote IP address	
Remote port 50000	
Voice record Voice recording is now disabled	

- 2. Navigate to and select **Voice record** to enable the feature.
- Navigate to and select Remote IP address to input the IP address of the device whose traffic you want to record.
- 4. Navigate to and select **Remote port** and input it (Default: 5000).
- 5. Start Wireshark on your PC to capture audio traffic.

8.10 Erase all data (factory reset)

This option is the equivalent of restore to defaults, including logout and device reboot.

To erase all data (factory reset):

1. Navigate to and select Erase all data (factory reset).



2. Navigate to and select **RESET PHONE**.

8.11 Screen Capture

By default, this setting is enabled. If disabled, the phone won't allow its screens to be captured.

8.12 Determining Device Status from LED Color Indications

Users and admins can determine the status of the RXV200 from its LED color indications.

Color Indication	Status	
Blue	Indicates the RXV200 is currently booting up	
Green	Indicates the RXV200 is currently idle	
Flashing red	Indicates the RXV200 is currently receiving an incoming call/meeting	
Red	Indicates the RXV200 is currently in a call/ meeting/mute	

Table 5: RXV200 Status

8.13 **Performing Recovery Operations using Power Button**

Network administrators can perform recovery operations using the power button on the front panel of the RXV200.

Besides this recovery option, Android devices also feature an independent, automatic problem detection and recovery attempt capability that can culminate in recovery mode or in switching image slots.

The following figure shows the power button.



To perform recovery operations:

- **1.** Disconnect the power cord from the RXV200 while long pressing the power button shown in the preceding figure.
- 2. Reconnect the power cord and continue pressing the power button.

Press button	Action	Press button for	LED indication after releasing the button
On Uboot	Nothing	<= 4 seconds	
	ENTER_RECOVERY	4 ~ 6 seconds	Red
	SWITCH_AB_SLOT	6 ~ 8 seconds	Green
	ENTER_LOADER	8 ~ 10 seconds	Blue
	RESTORE_DEFAULTS	>= 10 seconds	Yellow

Table 6: Recovery Operations

3. In the recovery menu use the power button to navigate between menus in the recovery mode. I long press selects the highlighted option.

8.14 Saving Logs while Device is in Recovery Mode

The device features USB log export while in recovery mode. This feature enables users to seamlessly save logs while their device is in recovery mode.

In Android recovery mode, the system automatically mounts a partition, enabling users to connect a USB stick.

By simply clicking the **Export logs to USB disk** option, all logs are efficiently copied to the USB stick, providing a convenient and reliable method for log management during recovery procedures.

8.15 Restoring RXV200 Firmware via USB Disk

For recovery purposes, firmware can be applied to the RXV200 from a USB disk.

To apply the firmware from the USB disk:

- 1. Enter recovery mode by pressing for 2-4 seconds the power button (Action: ENTER_RECOVERY); the device's LED lights up red.
- 2. Short-press the power button to move down the menu options, and long-press to select an option.
- 3. Insert the USB disk with the target firmware.



4. Select the **Apply update from USB disk** option and then choose the correct firmware image from the disk.

8.16 Return to Previous Version

When a customer receives a build for testing and completes the testing, they must switch back to the previous firmware version. This version is the General Availability build running on the device.

To return to the previous version:

Navigate to Settings > Debugging > Return to previous version. The device changes the active firmware slot and undergoes a factory reset.



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