Room Experience (RX) Suite

AudioCodes RX-PAD Meeting Room Controller

Version 2.6





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Related Documentation

Document Name					
RXV81 RXV200 RX-PAD RX-PANEL Release Notes					
RX-PAD Meeting Room Controller Quick Guide					
Pairing RX-PAD with Teams Rooms on Android					
RXV81 MTRA User & Admin Manual					
RXV200 MTRA Compute User & Admin Manual					
RXV200 Microsoft Teams Rooms on Android Compute Unit Quick Installation Guide					
Device Manager User & Admin Manual					

Document Revision Record

LTRT	Description
18320	Initial document release.
18321	Reset pinhole button
18322	HDMI In MTRA screen sharing Audio Notifications via MTRA Speakers
18323	Application launcher. Enrolling with Intune Policies. System State page.
18324	2.6. Wall mount installation.
18325	Camera Settings. PTZ adjusters. Downgrade block. Tracking Mode. Configuring Display.

1 Introduction

The AudioCodes RX-PAD Meeting Room Controller is a center-of-room intuitive touch controller that provides complete and straightforward access to AudioCodes meeting room solutions.

With its proximity sensor, ergonomic design and 8-inch high-resolution display, this high-quality controller enables simple and intuitive operation with extensive customization options.

RX-PAD Meeting Room Controller offers innovative features such as one-click-to join with an integrated calendar for simple collaboration initiation, smooth content sharing and easy camera adjustments, among others.

Part number: TEAMS-RX-PAD - MSRP

1.1 Highlights

- Leverages plug-and-play simplicity to deliver a productive and familiar Microsoft Teams meeting experience requiring connection with just a PoE cable.
- Features functions that are readily accessible to all participants with easy access to camera settings via onscreen navigation buttons that put all AudioCodes meeting room solutions at your fingertips.
- Paired with the main MTR unit which runs the Teams Room application on Android
- Compatible with the AudioCodes RXV81 MTR on Android and RXV200 MTR on Android.
- High-resolution 8-inch touch LCD
- Supported by OVOC Device Manager, enabling monitoring/upgrading from anywhere.



C	Speedy collaboration initiation. One-click-to-join for easy collaboration.
	An inbuilt calendar to quickly set or join meetings
I	A single cable connection keeps your desk clean and tidy
	Innovative ergonomic design for seamless operation
-	High-resolution, eight-inch touch LCD
2Å5	Human sensor

IJ	Cable compartment
	POE or power enabled
Ô	Dual-band Wi-Fi and Bluetooth support
	Android 12

1.2 Specifications

See the <u>RX-PAD Datasheet</u> for more information.

1.3 Connectivity

RX-PAD must be paired with the 'main MTR unit', for example, RXV81 or RXV200, to be active. RXV81 | RXV200 is the Front of the Room MTR main unit.

- RX-PAD runs the main client and MTR processing (audio, video, sharing)
- The main unit (RXV81 | RXV200) can run as a standalone (using remote / keyboard / mouse) or paired with the controller
- Both RX-PAD and RXV81 | RXV200 share the same MTR license and account
- The user signs in on both RX-PAD and RXV81 | RXV200, to the same account
- Configuration is 'shared' between the Room Controller and the main unit

	AudioCodes control channel – using Bluetooth and Ethernet	_
Carloodii aa		

Microsoft control channel – using Ethernet

1.4 Managing RX-PAD

Admins can use AudioCodes Device Manager to manage RX-PAD. Management includes:

- Monitoring
- Firmware management / upgrade
- Alarm management

Note:

- 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.
- Downgrading an RXV200 peripheral device to a version older than the built-in release is restricted as of version 2.6.280. Peripheral devices include cameras (RXVCam50, RXVCam360, RXVCam70), audio devices (RX15 or RX40) and RX-PAD.

1.5 Audio Notifications via MTRA Speakers

RX-PAD triggers audio notifications via RXV81 and RXV200 MTRA speakers. Users hear audio notifications produced by RX-PAD directly through the MTRA. Crucial features such as Talkback accessibility, ensuring a more streamlined and accessible communication experience during meetings and collaboration sessions, are included. The capability leverages Front of Room devices (RXV81 | RXV200) to serve as the audio source for RX-PAD, enabling the utilization of accessibility features on RX-PAD.

1.6 Security Guidelines

The RX-PAD is an AudioCodes Native Teams Android-based device purpose-built and customized for Teams calling and meeting and designed to enhance security as part of the default use.

Though customers might see Android-based systems as prone to security issues, security is much less a concern on devices that are purpose-built for Teams meeting and calling.

When analyzing the security of the device there are two levels that should be addressed:

- Authentication and security with regards to Teams connectivity and use
- Android level / system of the device

1.6.1 Microsoft Teams Security Guidelines

- Following are AudioCodes' recommendations with regards to device security:
 - Use "sign-in with other device option" using this mode the user does not type the
 password on the device, instead obtains a code to be used to sign-in on his PC/laptop;
 the device obtains a private token that enables it to access Teams cloud; this token,
 unlike a password, allows only that device which obtained it to reuse it. The token is
 stored on the secured file system.
 - Leverage Multi-Factor-authentication (MFA) to improve the security of the sign in.
 - IT can consider reducing the expiration time of the sign in for devices which are connected remotely (outside the organization network) vs devices in the organization premise.
- Visit Microsoft technical pages and learn more on security guidelines and policies for Microsoft Teams adoption:
 - Overview of security and compliance Microsoft Teams | Microsoft Docs
 - Identity models and authentication for Microsoft Teams Microsoft Teams | Microsoft Docs
 - Sign in to Microsoft Teams Microsoft Teams | Microsoft Docs

1.6.2 Android Level Security Hardening

This section describes the major changes performed on the system/Android level that were incorporated into the device to improve its security.

1.6.2.1 Google Play Services

Goggle Play services were removed from the device software – no access is allowed to any Google store or Play services.

The device update of the Android software and application is done via special software components that either connect into Teams Admin Center or to AudioCodes Device Manager over secured channel.

1.6.2.2 Running Android in Kiosk Mode

Android Kiosk Lockdown software is the software that locks down the Android devices to just allow the essential apps by disabling access to the Home/Launcher. Using Android Kiosk Lockdown software, the Android devices can be converted into public kiosk terminals or secured work devices.

Only specific Microsoft apps and AudioCodes signed apps that were certified and approved in the certification process can run under the Kiosk mode; even if a malicious user managed to install a new un-authorized app on the file system – the launcher on the device will only run those specific approved apps and this cannot be changed in run time (only with new software code that is provided by AudioCodes).

1.6.2.3 Screen Lock

AudioCodes Native Teams devices use a screen lock mechanism to prevent any malicious user/users from gaining access to Calendar information and / or Active Directory list of employees and / or triggering unauthorized Teams calls from the device. After enabling screen lock, the device automatically locks after a preconfigured period; a code is required to unlock the device and resume full operation.

1.6.2.4 AudioCodes Private Key

The system software on the device is signed with AudioCodes private key – users can replace the complete software only with new software that is also signed by the AudioCodes private key. This prevents the user from replacing the complete OTA package of the device with any new system software unless this software has been fully signed by AudioCodes.

1.6.2.5 Android Debug Bridge (ADB)

AudioCodes disables the Android Debug Bridge (ADB) application and keeps the Teams app running in the front all the time, which means there is no way to install other Apps from unknown sources and sideloading.

1.6.2.6 App Signing

Android requires that all apps are digitally-signed with a developer key before installation; currently the device verifies that the apps are signed by Microsoft. App signing prevents malicious user/users from replacing a Microsoft-signed app with an app that "pretends" to be Microsoft but which lacks the private key that is known only to Microsoft.

1.6.2.7 Web Browser

The device does not include a Web browser – users cannot browse to the public internet or internal intranet– all Web services are customized to connect to O365 services and AudioCodes managed services such as One Voice Operations Center (OVOC).

Without a web browser, malicious user/users will not be able to access the device and browse from it as a trusted device into the customer network.

1.6.2.8 Remote Configuration Management

The Native Teams device does not have an embedded WEB server – configuration and management is performed using one of the following remote interfaces:

- Microsoft Teams Admin Center (for Native Teams devices) over HTTPS protocols this is enabled after successful sign-in authentication process.
- AudioCodes Device Manager (part of AudioCodes OVOC suite) over HTTPS.
- Debugging interface over SSH. Note that SSH MUST be disabled by default and enabled only per specific case for debugging-purposes only.

1.6.2.9 AudioCodes Device Manager Validation

The device validates the AudioCodes Device Manager identity using known root CA:

- The device is shipped with known Root CAs installed. See <u>here</u>.
- For the initial connection phase, the AudioCodes Device Manager should access the device using a known CA.
- Once a successful secured connection has been established between the device and the Device Manager, the user can replace the root CA on the Device Manager and on the device and re-establish the connection leveraging any private root CA.

1.6.2.10 Sandboxing

AudioCodes Native Teams devices use Android Application Sandbox so that each application can access its own data and is isolated from other applications. This prevents a malicious app from accessing the code or the data of other applications in the system.

1.6.2.11 Keystore

With AudioCodes Native Teams devices, the certificate keys are encrypted on the device file system.

1.6.2.12 Device Certificate

AudioCodes Native Teams devices are shipped with a unique certificate which is signed by AudioCodes Root CA.

1.6.2.13 Data Protection

AudioCodes Native Teams devices run Android which has integral procedures for protecting and securing user data.

1.6.2.14 Device File System

The device file system is encrypted on the device – customers may enforce a policy of device encryption via Microsoft Intune.

1.6.2.15 Debugging Interface

- The device leverages SSH as a debugging interface.
- AudioCodes recommends that customers disable SSH on the device this can be done via the AudioCodes Device Manager (OVOC).
- AudioCodes recommends changing the Admin password from the default, which can be done via Teams Admin Center or AudioCodes Device Manager (OVOC).
- When debugging of a specific device is required, the user can enable SSH on specific device/s, access SSH with the new Admin password for debugging phase and disable SSH once debugging has been completed.

1.6.3 Android Security Updates

In addition to all the above, AudioCodes regularly adopts and integrates the Android security updates. For reference see <u>here</u>.

1.6.4 AudioCodes Root CA Certificate

Certificate Details for File 'New Text Document.cer'						
Certificate Hierarchy:						
RootCA						
Version:	3					
Subject:	CN=RootCA.O=ACL					
,						
Issuer:	CN=RootCA,O=ACL					
Serial Number:	0x1					
Valid From:	1/1/2000 2:00:00 AM IST					
w blue et						
Valid Until:	1/1/2030 2:00:00 AM IST					
Public Key:	RSA 2048 bits					
Signature Algorithm:	SHA256WITHRSA					
Fingerprint:	MD5					
	Import Extensions PEM ASN 1					
	Tubor Excusors Ervi Zolvi I					
	ОК					

----BEGIN CERTIFICATE----

MIIDMTCCAhmgAwIBAgIBATANBgkqhkiG9w0BAQsFADAfMQwwCgYDVQQKEwNBQ0wx
DzANBgNVBAMTBlJvb3RDQTAeFw0wMDAxMDEwMDAwMDBaFw0zMDAxMDEwMDAwMDBa
MB8xDDAKBgNVBAoTA0FDTDEPMA0GA1UEAxMGUm9vdENBMIIBIjANBgkqhkiG9w0B
AQEFAAOCAQ8AMIIBCgKCAQEA6GK495KUCXAm/UE17G4/cjnZN4LNaxYEYzbfZL0a
EhgSKYt/LQ+iUcDhojsneusNgrcGkpwKklKsGsvGWmSRNULV01CW+TX2VJN73+hh
V0uzhyOIYAUhbDaoqNM6Kp5b7sJ1ew4Ig9kfd/ma9Czl5koESLlw/inLj/r+rD96
mUcPElWrKspv7Qy4I14fsK/yMArixRopTL1munVVPpSFM9Jh8IY3JHyr5CQJXKKs
EhGAJsnHaRqsR2Su3X/WtslgEF+cvP34pxhlhFL29nMfnaFATSS3rgGaFlSvl1ZS
esLMqkWjp9cqGYrvt7K61sYnvMMb+o/KbWqVokXb+Fr7bwIDAQABo3gwdjAMBgNV
HRMEBTADAQH/MB0GA1UdDgQWBBQDXySn9hz151DraZ+iXddZGReB+zBHBgNVHSME
QDA+gBQDXySn9hz15lDraZ+iXddZGReB+6EjpCEwHzEMMAoGA1UEChMDQUNMMQ8w
DQYDVQQDEwZSb290Q0GCAQEwDQYJKoZIhvcNAQELBQADggEBAI0rUywommWWJnH3
JOfKiS3+VnX5hJITZymvWanMXUz/6FonHccPXEBYTrUYwhiWx3dwELAFXDFKkxMp
0KKWZ4F39cAOLRjqhzya+xUeeJ9HQZCXYAJ6XgvTfN2BtyZk9Ma8WG+H1hNvvTZY
QLbWsjQdu4eFniEufeYDke1jQ6800LwMlFlc59hMQCeJTenRx4HdJbJV86k1gBUE
A7fJT1ePrRnXNDRz6QtADWoX30mN7Meqen/roTwvLpEP22nYwvB28dq3Jet1QKwu
XC4gwI/o8K2wo3pySLU9Y/vanxXCr0/en5l3RDz1YpYWmQwHA8jJIu8rxdhr+VNQ
Zv6R/Ys=

----END CERTIFICATE----

2 Getting Started

2.1 Setting up RX-PAD



Note: See *RX-PAD Meeting Room Controller Quick Guide* for information about shipped RX-PAD items, positioning, installing, cabling, and powering up.

2.2 Signing in to RX-PAD



Note: See the *Pairing RX-PAD with Teams Rooms on Android AudioCodes Devices* for information about how to sign in to your Microsoft Teams Account.

2.2.1 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)

Note:

- 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.

2.3 Pairing RX-PAD with MTR

RX-PAD must be paired with the Microsoft Teams Room (MTR) on Android device (RXV81 | RXV200).



Note: See the *Pairing RX-PAD with Teams Rooms on Android AudioCodes Devices* for information about how to pair RX-PAD with RXV81 | RXV200.

2.4 After Pairing

After pairing RX-PAD with the MTR, scroll down in RX-PAD to this:



From left to right:

- **Teams** (tap to refresh RX-PAD's UI)
- **Settings** (tap to enter RX-PAD's Device Settings)
- **Camera settings** (tap to open the MTR's 'Camera Settings')
- **Remote keyboard** (tap to control the MTR)

2.5 Configuring RX-PAD FQDN/IP Address

RX-PAD features a setting enabling admin to configure FQDN/IP address. If RX-PAD is launched but the app has an invalid FQDN/IP address, admin is prompted to manually enter it.

			Room control			
	Date & time		Room control URL			
	Wi-Fi					
	Bluetooth					
	USB	Room cont	rol URL			
ţ <u></u>	Room control					
U	Power saving			CANCEL	ОК	
ſ	Security					
	Languages & input					
	Bundle					
	Teams Admin Settings					



Note:

- The option is supported even though IP address may be a rare case since the server certificate's CN must include it.
- There is also a settings option to download the CA certificate.

3 Operating RX-PAD

The following summarizes how to operate RX-PAD.



L-R	Description					
1	Touch the back button to return to the previous screen.					
2	Touch to return to the home screen or long-press to open the Device Settings page.					
3	Touch to access the MTR's Camera Settings page.					
4	Touch to open Microsoft Teams and the Device Settings menu.					
5	Click to join a scheduled meeting.					
6	Passive Infrared (PIR) motion sensor (hidden). When sensing motion, it wakes up RX-PAD from screensaver mode, automatically lighting up the screen to greet the user.					
7	 LED: Solid red indicates in a meeting Solid green indicates the RX-PAD is online and signed in Flashing red indicates incoming invite to join a meeting 					
8	Drop-down menu to make it easy to open the RX-PAD application launcher. The new launcher enables accessing an app <i>with a single click</i> .					

3.1 **Operating with the Remote Keyboard**

After pairing RX-PAD with the MTR, scroll down in RX-PAD to the Remote Keyboard menu:

16:42 Mon, Jul 8						$\mathbb{O} \leftrightarrow \mathbb{O}$
Join your meeting with this room	MONDAY, JUL 16:42 Golan F12 # +972 3-97 TAP/Beta US	Teams	Settings	Camera Settings	Remote Keyboard	
C		S				
Meet						

- > To operate with the remote keyboard:
- 1. Tap the menu indicated in the figure above.



- 2. Enable touchscreen controls for remote control of the MTR.
- 3. Use RX-PAD's remote keyboard to:
 - Sign in to an MTR (RXV81 | RXV200)
 - Toggle between the MTR's Teams menus and device menus
 - Navigate to MTR settings for adjustment of relevant features (such as Bundle selection, etc.)
- 4. Tap the right arrow indicated in the figure above to go back to the previous menu in the MTR.
- 5. Tap the uppermost left arrow indicated in the figure above to exit Remote Keyboard mode.

3.2 Managing Popup Messages

Popup messages displayed on the MTR device (RXV81 | RXV200) are seamlessly mirrored in the bundled RX-PAD to enhance user interaction.

When a message pops up in the MTR GUI, the same is displayed in RX-PAD.

The feature streamlines user experience, allowing users to conveniently confirm messages directly from RX-PAD and manage notifications intuitively and efficiently.

The figure below shows the popup message **Device is updating** on RX-PAD.



If the alert is an action, you can perform the action using RX-PAD, for example, REBOOT / DO IT LATER / COLLAPSE, as shown in the figure below.

C Android System		$(0 \leftrightarrow \Diamond)$
	Front of room device Restarting_ REBOOT DO IT LATER COLLAPSE	16:09 SakuraiAutoMeeting +1 732:515:3189
Meet	Catt Share	More

3.3 Adjusting MTR Camera Settings

After pairing RX-PAD with the MTR device (RXV81 | RXV200), select **Camera Settings** in RX-PAD:



To adjust MTR camera settings:

1. Tap the menu indicated in the figure above to enter the MTR's Camera Settings page -or- use the camera hard key to access the Camera Settings page.



2. In the Camera Settings page shown in the figure above, view an Auto Framing switch available when RX-PAD is used to control RXV81 MTR. In addition to RXV81, the feature is also available on RXVCam50L/M connected to RXV200.

Note:



- Admin users can create a permanent camera settings preset including enable / disable of Auto Framing.
- End users can either select a preconfigured preset which includes enable / disable of Auto Framing or create a temporary preset *during a meeting* (which will be deleted at the end of the meeting) and can enable / disable Auto Framing.
- **3.** Enable Auto Framing if required; PTZ (Pan Tilt Zoom) functions are then disabled; temporary presets are available for users without admin permissions; users without administrator permissions can create temporary presets.

← Camera Settings			Limited access
Presets	VIEW PRESET		
Room			
+ Create Temporary Preset	ලි Auto-Frami	ing 🜑	
	Zoom		0%
			100%
	Tilt		50%
			100%
	Pan		50%
			100%
	Brightness		50%



Note: If that user leaves the meeting, the temporary presets will be erased when they later reenter Camera Settings (or another user later enters); temporary presets are only for that meeting they were configured for; new presets can be configured for the new meeting.

← Camera Settings		Limited access
Presets	EDIT PRESET	
Room		:
test + Create Temporary Preset	윤 Auto-Framing ●	
	Zoom	56%
		100%
	Tilt	67%
		100%
	Pan	66%
		100%
	Prightness	60%

Caudiocodes

← Camera Settings		Limited access
Presets	VIEW PRESET	
Room		
+ Create Temporary Preset	ලි Auto-Framing 🜑	
	Zoom	0%
	A 0	100%
	Tilt	- o
		100%
	Pan	- •
		100%
	Brightness	50%

3.4 Configuring RXVCam70 Camera Tracking Modes



Note: 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	~	
Presets	EDIT PRESET Room	:
+ Create New Preset	 Tracking Mode Manual AutoFraming Speaker tracking Smart Gallery 	
	Zoom ©	0%
	Tilt	50%
		100%

- 2. Select one of the following RXVCam70 camera tracking mode options:
 - Manual
 - Auto framing
 - Speaker tracking
 - Smart Gallery
- **3.** Use the following as reference:

Smart Gallery	 Automatically identifies 1-8 people Automatically lays out the display When a person moves, the camera automatically tracks them and keeps them centered Switching from one person to another is accompanied by dynamic effects of entry and exit 		

Presenter Tracking	 [Currently supported by the RC only] Automatically identifies and tracks the position of the presenter to ensure that that person remains centered. Press the left and right keys to select the target to track. Press OK to choose the target.
Manual	 Select this option to manually adjust the Zoom, Tilt or Pan. In RX-PAD's 'Camera Settings' page, use the sliders to set Zoom, Tilt or Pan. Using the RC, after selecting an area to display, zoom in out, move up down, and move left right. This mode does not have Al functions.

User's and Administrator's Manual



3.5 Selecting an RXVCam360 Camera Tracking Mode



Note: 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	ිලා Tracking Mode	
+ Create Temporary Preset	O Manual	O Speaker Tracking O Smart Gallery
	Discussion	O Panoramic
	🗘 Zoom	
		$\hat{}$

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









3.5.1 Configuring Room Camera in Teams Admin Settings

Smart camera settings (AudioCodes side) are supported via **Device Settings** > **Teams Admin Settings**.

All smart camera settings tracking modes are synchronized with Teams app side.

The figure below shows the Room Camera page when RX-PAD is bundled with RXV81:

← Teams Admin Settings		
Meetings	← Room Camera	
₽ Devices		
	Source	
	AudioCodes RXV81 Camera *	
	Room framing Automatically center and focus on everyone in the room.	

The figure below shows the Room Camera page when RX-PAD is bundled with RXV200:

	Teams Admin Setting	js	*	
Ē		← Room Cam	era	
G	Devices	Automatic fra	aming 🔹	
		හී Room	Automatically center and focus on everyone in the room.	
		ැ Active speaker	Automatically center and focus on person talking.	
		器 Composite	Zoom in on each person in the room, then combine them into a single view.	

3.5.2 Configuring a Color Mode Preset on the RXVCAM50M/L Camera

Users can configure a Color Mode preset from RX-PAD when RXV200 is connected to the AudioCodes RXVCAM50M/L camera.

Users can configure either:



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

3.6 Configuring a Bundle

RX-PAD features a wizard with which admin can configure an RXV81 | RXV200 bundle.

Note:



- Before version 2.6, bundle configuration was supported via the MTRA Front of Room (RXV81 | RXV200) using RX-PAD's Remote Keyboard to control the MTRA.
- As of version 2.6, admin can configure an RXV81 | RXV200 bundle in the RX-PAD wizard ('Bundle' page).

At any point, admin can rerun the wizard and change the bundle; the newly configured bundle will override the existing bundle and also change the input device.

> To configure a bundle:

■ In RX-PAD, open the wizard (**Settings** > **Bundle**).

The figures below respectively show the RXV81 and RXV200 'Bundle' pages.



3.7 Configuring Ad Hoc Mode on RXV81 MTRA

RXV81 MTRA and RX-PAD Controller support ad hoc peripheral mode. When RXV81 MTRA is connected via USB to a PC/laptop, it automatically moves to ad hoc peripheral mode and the following is displayed on RX-PAD:



When a call comes in, RX-PAD displays the incoming call's functions as follows:



3.8 Screen Sharing

RXV81 and/or RXV200 enable 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.

Note:

- A short HDMI cable connects the PC/laptop to the RX-PAD HDMI In port.
 - \checkmark The connection is very fast.
 - $\sqrt{}$ The initial connection is performed in the background, without any notification.
- The connection between RX-PAD and RXV81 | 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 MTR positioned in the front of the room.

- Teams 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].
- Standby 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.

The figure below shows RXV200 connected.



The figure below shows the RXV81 connections.



To enable utilization of this feature, make sure the following is permitted in the organization's firewall settings:

- Hostname: jitsi-meet-ipp.eastus.cloudapp.azure.com
- IP Address: 20.115.49.175
- Allow incoming connections on the following ports:
 - 80/tcp
 - 443/tcp
 - 3478/udp
 - 5349/tcp
 - 10000/udp

See also:

- RXV81 MTRA User's and Administrator's Manual
- RXV200 MTRA Compute User's and Administrator's Manual

3.9 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	ł	Media volume
Ť	Accessibility	4 0	Default audio device
{}	Reboot		RX40 ~
L	Touch screen		
í	About device		
	admin settings		
ර	Device Administration		
٩	Display		
S	Date & time		
~			

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



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4 Configuring User Settings

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

4.1 Configuring Display

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**. [The figures below show RXV81].

÷	Settings	Display
User		Sleep After 10 minutes of inactivity
•)	Sound	
		Font size
Ĭ	Accessibility	
		Screen saver
{ }	Reboot	Off
i	About	<i>4</i>
Device	admin settings	
∂	Device Administration	
ᢙ	Display	

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

Slee	p
	Never
	30 seconds
	1 minute
	2 minutes
	5 minutes
۲	10 minutes
	30 minutes

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



Note: 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.

4.2 Accessibility

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
4)	Sound	Font size Default
Ĭ	Accessibility	High contrast text
{}	Reboot	Color correction
(j)	About	off

2. Adjust the settings to suit personal requirements.

4.3 Setting Live Captions

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

4.4 Hiding Names and Meeting Titles

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

4.5 Reboot

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

To reboot:

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



4.6 About

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

- To access the About screen:
- 3. Under 'User', navigate to and select **About**.

User's and Administrator's Manual

÷	Settings	About
٩)	Sound	Status
Ĭ	Accessibility	Model RXV80
{}	Reboot	Android version
(j	About	9
Device admin settings		Version info

4. 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
(j)	About	MAC address
Device	admin settings	
₿	Device Administration	Bluetooth address 34:f1:50:8e:3e:60
✨	Display	Serial number DB13152281
0	Date & time	Up time
•	Wi-Fi	50:46:03
٢	Camera	

5. View the firmware information.



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5 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

5.1 Creating a Dynamic Group

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

5.2 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
 RX-PAD

where **RX-PAD** is the name of the device model (device.model).

×	Home > Devices Conditional access > Cond	tional Access Overview >	Filter	r for d	devices			×
A Home	New Conditional Access policy		The					
🖾 Dashboard								
E All services	Control access based on Conditional Access	Control access based on signals from conditions	Configure	re a filter to	to apply policy to specific devices.	Learn more Lo		
Devices	policy to bring signals together, to make	like risk, device platform, location, client apps, or device state.	Configure	re 🕕 No				
Apps	Learn more G [*]	Device state. Dearn more C						
Endpoint security	Name *	Not configured	Devices n	matching t	the rule:			
Reports	Example: 'Device compliance app policy'		O Inclu	ude filtered	d devices in policy			
🚨 Users	Assignments	Not configured	Exclu	lude filtered	ed devices from policy			
🚑 Groups	Users ①		And/O	Or Pr	roperty	Operator	Value	
Zenant administration	0 users and groups selected	Client apps		di	fisnlavName	Fouals	RXV81	n
✗ Troubleshooting + support		Not conligured	And	di	lisplayName	Equals	RXV200	÷
	No target resources selected	Filter for devices ()	+ 444 a	ou constraints	nspiayivanie	Equals	KAV200	
	Conditions	Exclude hitered devices	Rule synt	tax ①				0 Edit
	1 condition selected	Authentication flows (Preview) ③	device.d	.displayNan	me -eq "RXV81" -and device.displ	layName -eq "RXV20	0"	
		Not configured						
	Access controls							
	Grant 💿							
	0 controls selected							
	Session ()							
	0 controls selected							
	Enable policy							
	(Report-only) On Off							
	Create		Done	ie –				

eli.carciente@talkmail.o...

5.3 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	n (
Home Dashboard	Home > Devices Android > Android	levices				
All services Devices Apps	Search « Overview Android devices	○ Refresh ↓ Export	E Columns ~	Bulk device action	15	traid (narrowship out 14 5
Endpoint security Reports	Android enrollment	Device name	Managed by	Ownership	Compliance	os ⊽
 Users Groups Tenant administration 	Compliance policies	Confroomaudc_Androi	Intune	Personal	Compliant	Android (device admi Android (device admi
X Troubleshooting + support	Android FOTA deployments	Confroomaude_Androi	Intune	Personal Personal	Compliant	Android (device admi Android (device admi
		Confroomaude Androi	Intune	Personal	Compliant	Android (device admi



Note: 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.

Home > Devices Android > Android Android devices >				
Bulk device action				
Basics ② Devices ③) Review + create			
OS *	Android (device administrator)			
Device action *				
Device action *				
If you delete this device, you we longer be allowed to access you	ill no longer be able to view or manage the device from the Intune portal. The device will no			
to check-in after it is deleted.	ar company's corporate resources, company data may be writed norm the device in the device thes			
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**.

A Home	Home > Devices Android > Android Android devices > Builty devices pertings	Select devices ×			
E Deshboard	Bulk device action				
All services	At least one device must be selected	Search by IMEL serial number, email, user principal name, device name, management name, phone number, model, or manufactu			
Apps Apps Apps	Sazica Devices 🕑 Review + create	OS Andreid (device administrator) To ASS floar Device name Primary user UTN OS			
Reports	0 devices selected (100 mail)	Conhoomaude, Android, 2/22/2024, 11:35 AM Conhoomaude Baudiocodesigpind conhisteach.com Android (stevice adminis.			
Lusers	No devices added	Contralamikula, Android, 2022/2024, 253 PM Contralamidocades ppmd compressibilition Android (device adminis			
A Groups	+ Select devices to include	Controomaude Jandroid, 2022/2004, 912 AM Controomaude Baudiocodesoppind environmented idence administ.			
Tenant administration		Confroomaude, Android, 2/22/2024, 9:25 AM Confroomaude: Baudiocodesippmd onmicrosoft.com Android (device adminis			
 incubieshooting • support 		Confroomaude, Android, 2/26/2024, 653 PM Confroomaude:Baudiocodesigned connecessific om Android (device adminis			
		GalRoom_Android_2/25/2024,734.4M GalRoom@audiocodesipprnd.ormicrosoft.com Android (device adminis			
		Follocom Badenic 2/05/0814 7:49 BM GolilocomBaudiosociestoned nemcennelt nem Selected devices			
		Componisado perioria 2/22/2014, 1125 Vier Componisado que concomisión entre entre preside activitados entre			
		Confroomaudo, Android 2/72/2004, 912 AM Confroomaudo@audiocodesippind.ormicio Android (device adm Remove			
		\			

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





6. Under the **Devices** tab, click **Next**.

Microsoft Intune admin center				
~	Home > Devices Android > Android	Android devices >		
A Home	Bulk device action			
🖾 Dashboard				
All services				
Devices	🔮 Basics 🔮 Devices 🧿 Revi	ew + create		
Apps	Summary			
Endpoint security	Basics			
Reports	Device action	Delete		
🚨 Users	OS	Android (device administrator)		
A Groups	Davicas			
Tenant administration	Devices			
🗙 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			

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.



Note: 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.

6 Monitoring Device Software Modules Status

AudioCodes provides out-of-the-box troubleshooting capability: Admins can monitor the status of the device's various software 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 software modules status:

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

÷	Settings	← Debugging System State
ර	Device Administration	LLDP CDP Didn't run
✨	Display	IEEE 802 1v
6	Date & time	Didn't run
(¢	Wi-Fi	Network Ran with success result
*	Bluetooth	DHCP Option Ran with success result, IP : 192.168.33.4
Ŷ	USB	
0	Power saving	DNS Ran once with success result, Server: [192.168.33.1]
đ	Security	NTP Ran with success result, Server: time.android.com/216.239.35.4
⊕	Languages & input	Switch To Voice Vlan Didn't run
<··>	Modify network	Proxy Configuration

÷	Settings	Cebugging System State
ර	Device Administration	Connect To Device Manager Running, connected to https://ippdm.audiocodes.com:443/
ŷ	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
ţ	USB	Configuration Undate
S	Power saving	Didn't run
ර	Security	Redirect Didn't run
⊕	Languages & input	Apps Update Didn't run
< >	Modify network	Peripheral Devices Firmware Update

7 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
ᢙ	Display	Remote Logging
©	Date & time	Diagnostic Data
♥	Wi-Fi	Reset configuration
۲	Camera	Restart Teams app
*	Bluetooth	Company portal login
₿	Security	Launch mobile teams
⊕	Languages & input	Debug Recording
< >	Modify network	Erase all data (factory reset)
بر	Calling	ADB

2. Use the following debugging features available to Admin users:

- Log settings (see Log Settings)
- Remote Logging (see under Remote Logging)
- Diagnostic Data (see under Diagnostic Data)
- Reset configuration (see under Reset configuration)
- Restart Teams app (see under Restart Teams app)
- Company portal login (see under Company Portal Login)
- Launch mobile teams (see under Launch Mobile Teams)
- Debug Recording (see under Debug Recording)
- Erase all data (see under Erase all data (factory reset))
- Screen Capture (see under Screen Capture)
- Performing Recovery Operations (see under Performing Recovery Operations)
- Restoring Device Firmware via USB Disk (see under Restoring Device Firmware via USB Disk)

Note:

- An enhanced bug report is available for efficient debugging.
- Information such as pack up time, ps, top, meminfo and df commands (information about file system disk space usage) is reflected in it.

7.1 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 I	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.

48

	Office 365 Microsoft Te	earns admin center
	≡	Dashboard \ Manage devices \ audiocodes-od50hd sc10155532
ଭ	Dashboard	
885	Teams	audiocodes-c450hd sc10155532 Online
8	Devices ^	
	Manage Devices	D O sh_OnlineAuto7
۲	Locations	Last seen Organization asset tag
88	Users	Manufacturer and model OEM serial number
Ē	Meetings \sim	AudioCodes - C450HD Sc10155532
E	Messaging policies	
41	Analytics & reports	Details Hidaya
۲	Org-wide settings \sim	
3	Legacy portal 12	Software update status Notes
æ	Call quality dashboard 13	Firmware Update Update
6	Firstline Worker configu	C450HD_TEAM5_0.218 Updated on Feb 27, 2019, 2:00 AM
		App Audiocodes Partner Agent 1.0.26 Updated on Feb 11, 2019, 200 AM



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

3. Click the Diagnostics icon.

Device diagnostics	5	\times
Log files will be retrieved Would you like to procee	I from the selected ed?	device(s).
	Proceed	Cancel



4. Click Proceed; the logs are uploaded to the server.

5. Click the **History** tab.

	Office 365 Microsoft T	eams admin center			
	=	Dashboard \ Manage devices \			
ଜ	Dashboard				
885	Teams				
8	Devices 🗸 🗸	0 0		User	
۲	Locations	Last seen		Organization, asset tag	
88	Users	-		•	
Ē	Meetings 🗸 🗸	Manufacturer and model		•	
	Messaging policies				
41	Analytics & reports				
۲	Org-wide settings \sim	Details History			
3	Legacy portal C				
۵	Call quality dashboard	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.

7.2 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.



Note: 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 ""

7.3 Diagnostic Data

Admin users who need to get logs from the device can dump the logs to the device'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

- 2. Navigate to and select **OK** to confirm 'Copy logs to sdcard'; the MTR 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

7.4 Reset configuration

Admin users can opt to 'clean up' their configuration history and return the MTR 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.

Reset configuration		
Are you sure you want to reset to your original configuration?		
C/	ANCEL	ОК

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

See also here.

7.5 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.

7.6 Company Portal Login

← Device Details	× 1
alanr.Android_12/1/2020_12:55 PM	
Crigal and developid out etail way. Crigal Android 12/1/1/2020_12:55 PM	
Operating System Android	
Ownership Type Personal	
Learn More	
Device Settings Status In Compliance Last checket. December 6, 8:43 AM	
Check device settings	

7.7 Getting Company Portal Logs

Company Portal logs can be helpful to network administrators when there are issues with signing in to Teams from the device.

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 device as 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**:

C ← C Device Details	Settings
alanr_Android_12/1/2020_12:55 PM	About
Device settings meet policy 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	

Gettings	
Usage Data Allow Microsoft to collect performance and usage data to help improve Microsoft products and services.	()*
Learn More	
BatteryOptimization	
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.	(m)
Automatic Grash Reporting Automatically report errors to Microsoft.	() P
Diagnostic Data	
	COPYLOGS
Management Policy Sync your device with the latest policies from AudioCodes Ltd.	
	SYNC
Enable Browser Access Installs Work Account certificate. You might be prompted for system permissions.	
	ENABLE

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.

7.8 Launch Mobile Teams

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

7.9 Debug Recording

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



Note: DSP recording can be activated on the fly without requiring the network administrator to reset the device.

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.
- 3. 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.

7.10 Restoring to Defaults

RX-PAD can be restored to defaults by pressing 15 seconds on the bottom key (dedicated button on RX-PAD).

7.11 Erase all data (factory reset)

This option is the equivalent of restoring to defaults shown in the preceding section; including logout and device reboot.

To erase all data (factory reset):

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

÷	Settings	← Debugging Erase all data (factory reset)			
4)	Sound	This will erase all data from your IP Phone's internal storage, including:			
Ť	Accessibility	System and app data and settings Downloaded apps			
{}	Reboot	• Music • Photos • Other user data			
(j	About				
Device admin settings		You are currently signed into the following accounts:			
⋳	Device Administration	alanr@audiocodes.com			
✨	Display				
0	Date & time	l≩ I			
▼	Wi-Fi				
۲	Camera	RESET PHONE			

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

7.12 Screen Capture

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

7.13 **Performing Recovery Operations**

While RX-PAD is powering up, admin can perform recovery operations by inserting a sharp pointed object, for example, a paper clip or pin, into the pinhole button shown below and pressing for the length of time shown in the table below.



When pressing the pinhole button, the device's main LED changes color after every n seconds; each color is aligned with a recovery operation option.

Note:

- Besides manual recovery options, Android devices also feature an independent, automatic problem detection and recovery attempt capability that can culminate in recovery mode or in switching image slots.
- Android devices also feature a 'hardware watchdog'. This feature resets the device if Android is stacked and doesn't respond (though Android stacking is unlikely); there's no recovery process; the device is only reset.

Use this table as reference as to how to use the pinhole button to perform recovery operations.

When?	Action	Press for how long?	LED flashes 3x after release
Start pressing immediately after power up (on U-Boot /	Recovery mode (you can restore defaults from there)	~ 4 seconds	Red
Universal Boot Loader)	Switch slots A / B	~ 10 seconds	Green
	Loader	~ 15 seconds	Blue / Yellow
	Restore defaults	~25 seconds	Green + blue / Green + yellow
When successfully booted (on Android)	Reboot	From the Recovery menu	-
	Restore defaults	Long-press the Hold key for ~15 seconds	Flashes yellow once after release

7.14 Restoring Device Firmware via USB Disk

For recovery purposes, firmware can be applied to RX-PAD 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 as shown in the preceding table (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.

Androi Swipe Swipe	d Recovery 2.2 up/down to move left/right to a	. 435 e. select.	-		
Reboo	t system now				
Switc Apply Wipe Wipe Run r Expo	h to another sl update from US data/factory re cache partition memory test rt logs to USB d	ot B disk set isk			
ent	er try_do_sdcard_ _do_sdcard_boot i	boot s done, is	_sdupdate=0	*stat=0	
		-	\cap		

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

7.15 Limiting HDMI Resolution and FPS

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

- > To limit HDMI Resolution and FPS:
- 1. Open the Display page (Settings > Display).



2. Set 'HDMI CEC'.



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8 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.



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9 Updating Microsoft Teams Devices Remotely

For instructions on how to update Microsoft Teams devices remotely, see here.



Note: Before an update is pushed to a device, the firmware detects whether the user is using the device or not. If they are, the user is notified and given an option to delay the update or apply it, nonetheless. The feature avoids disrupting users' ongoing activities on their devices, such as calls.



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