Room Experience (RX) Suite

# RXV81 MTR on Android™ Video Collaboration Bar with RX-PAD Meeting Room Controller

Version 2.8.208







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Date Published: March-19-2025

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## **Abbreviations and Terminology**

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

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#### **Related Documentation**

Document Name
RXV81 MTR on Android Video Collaboration Bar Deployment Guide
RXV81 MTR on Android Video Collaboration Bar Release Notes
RX-PAD Meeting Room Controller Pairing Guide
One Voice Operation Center (OVOC) Release Notes
One Voice Operation Center (OVOC) User's Manual
Device Manager Administrator's Manual

## **Document Revision Record**

LTRT	Description
18267	Update Version 2.8.208 Updated Time Zone.



## 1 Introduction

AudioCodes' RXV81 is a standalone Microsoft Teams Rooms on Android™ (MTR) video bar that takes advantage of plug-and-play simplicity to deliver a familiar and exceptionally productive Microsoft Teams meeting experience.

Outstanding image clarity and enhanced voice quality ensure that remote participants can see and hear everyone in the room and can also participate in full Teams video and content sharing sessions.

RXV81 stands out with its video and audio capabilities, embedded speaker and a 6-element microphone array, as well as Full HD and ePTZ with 5x zoom. These combine seamlessly to make every meeting interactive and personable.

Stylishly designed and quick to set up, RXV81 is by default a standalone MTR specifically designed for huddle rooms and small shared rooms, as well as for managers' and executives' personal offices in today's busy hybrid workplaces. When used as a standalone MTR, video and sharing are displayed on the TV screen and meetings are controlled via AudioCodes' RX-PAD Meeting Room Controller or the remote control (RC).

In addition to standalone mode, RXV81 can be used in ad hoc peripheral mode. In this mode, customers connect RXV81 to a BYOD (Bring Your Own Device) (PC/laptop) running a UC client; the BYOD displays meeting video and content and meetings are controlled via the BYOD (join, accept, manage participants). Audio/video (camera ePTZ, mic mute) can be controlled via the UC client or the RC (camera on / off, mute, volume).

Deployment is straightforward with its robust mounting element and minimal cable connections.

RXV81 is supported by AudioCodes' Device Manager, a plugin of the AudioCodes One Voice Operations Center (OVOC), allowing IT managers to remotely oversee and upgrade all deployed devices with ease from anywhere.

See also AudioCodes' website here for information about the RXV-81.

#### Note:

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 Moving Teams Android Devices to AOSP Device Management | Microsoft Community Hub.

## 1.1 Highlights

RXV81 feature highlights:

Plug-and-Play Simplicity for Fast Setup.

An easy-to-use mounting element and minimal cable connections enable quick and simple deployment.

- [Optional] RX-PAD Meeting Room Controller
- [Optional] Bluetooth Remote Controller

Leverages Bluetooth for full control and bi-directional communication. Intuitive. Illuminated 'Mute' and 'Teams' buttons.

Intuitive Meeting Experience.

Fast access to meetings with one click to join using Microsoft Teams Room Android.

#### High Quality Video and Audio.

Outstanding Full HD image clarity and superb surround sound ensures that everyone in the meeting room is seen and heard.

#### Wide-angle 4K Camera

Covers a 110° viewing angle capturing every seat in the room even in tight spaces with challenging lighting conditions. D: 120°/ H: 110°/ V: 75°

#### Easy to Manage from Anywhere.

Enhance the meeting experience with centralized device management and monitoring from any location.

#### Peripheral Mode.

RXV81 can be used on an ad hoc basis as a USB A/V peripheral for any UC client.

#### 1.2 Benefits

- Intuitive meeting experiences with one click to join using the MTRA application.
- Easy-to-use mounting element & minimal cable connections for quick and simple deployment.
- Audio via a full-room pickup with no need for an additional external USB mic or speaker.
- Effortlessly manage meetings using the dedicated Bluetooth remote control or RX-PAD
- Audio notifications triggered by RX-PAD are heard through the RXV81 speaker, including Talkback accessibility, to ensure a streamlined and accessible communication experience during meetings and collaboration sessions.

#### 1.3 Hardware Features

- RXV81 can be used on an ad hoc basis as a USB A/V peripheral for any UC client
- Wide-angle lens with 110° field of view (FoV) covers every seat in the meeting room. D: 120°/ H: 110°/ V: 75°
- Adjustable camera position with ePTZ support 5x zoom digital 5x zoom in. Manually vertically (up/down) adjustable ±15°.
- 6-element microphone array with 4.5 m pickup range for mid-size rooms and a 10W speaker
- Stylish design and finish.
- Built-in dual band Wi-Fi and Bluetooth.
- High Dynamic Range (HDR) automatically ON Wide Dynamic Range (WDR).

#### 1.4 Bundles

RXV81 is available in three bundles.

Table 1-1: RXV81 Bundles

Name of Bundle	Details
TEAMS-RXV81	<ul><li>Executive Offices   Huddle Rooms</li><li>RXV81 main unit</li><li>Bluetooth Remote Controller</li></ul>
TEAMS-RXV81-B10	<ul> <li>Huddle Rooms   Small and Medium Meeting Rooms</li> <li>5-8 participants</li> <li>RX-PAD Meeting Room Controller</li> </ul>
TEAMS-RXV81-B15	<ul> <li>Huddle Rooms   Small and Medium Meeting Rooms</li> <li>5-8 participants</li> <li>RX-PAD Meeting Room Controller + AudioCodes RX15 Speaker</li> </ul>



## 1.5 Management

RXV81 bundles are managed using AudioCodes' One Voice Operations Center (OVOC) Device Manager or Microsoft's Teams admin center (TAC), enabling admin to monitor and upgrade the devices from anywhere. Management includes:

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

Admins can monitor the status of the device's modules from the System State page as shown here.



**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.

## 1.6 Specifications

The following table shows RXV81 specifications.

**Table 1-2: Specifications** 

Feature	Details
Video capabilities	<ul> <li>Ultra HD 4k image sensor</li> <li>Super-wide angle horizontal field of view: 110°</li> <li>Lens: Fixed focus</li> <li>ePTZ capable, digital 5x zoom in</li> <li>Output resolution: 1080p</li> <li>Frame rate: 30 fps</li> <li>Manually adjustable, vertically (up/down) ±15°</li> <li>High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR).</li> </ul>
Audio	<ul> <li>Full duplex, noise suppression, acoustic Echo Cancellation, voice separation</li> <li>6x beamforming microphone array</li> <li>Voice pickup range: 4.5m (15ft)</li> <li>10W speaker</li> </ul>
Device Interfaces	<ul> <li>HDMI Output to TV</li> <li>Power/reset button</li> <li>USB 3.0 Type A (host) marked 1 to allow touch LCD or connectivity to wireless KB via BT USB dongle. Do not connect to power!</li> <li>Ethernet: 10/100 Mbps (RJ-45) network interface</li> <li>USB2.0 Type-C (device) marked 2 to connect to PC/MAC BYOD device (peripheral mode)</li> <li>3 status LEDs indicating camera on/off, mute on, call state, device health</li> <li>Wi-Fi (dual band support)</li> <li>Bluetooth 5.0</li> <li>12V/3A DC power input</li> <li>Remote Controller (Bluetooth managed)</li> <li>RX-PAD Meeting Room Controller</li> </ul>
Design	<ul> <li>DIMENSIONS (W X D X H) 462 x 93 x 76 mm</li> <li>WEIGHT 1.464 kg</li> </ul>

Details
<ul> <li>TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)</li> <li>Layer 3 TOS and DSCP RTCP support: (RFC 1889)</li> <li>IP address configuration: TCP/IP (IPv4), DHCP/static IP Time and date synchronization: SNTP</li> <li>QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889)</li> </ul>
Android 12
<ul> <li>Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256</li> <li>Network Access Control: IEEE 802.1x</li> <li>Built-in certificate</li> </ul>
<ul> <li>AudioCodes Device Manager, a plugin of AudioCodes One Voice Operations Center (OVOC)</li> </ul>
Calendar integration (with meeting preview) and one click to join Teams meetings  Meet now option Simple sign-in interface from browser or smartphone with a code 'Direct guest join' to allow joining a third-party meeting 'Cast info' from mobile to the RXV81 screen over Bluetooth 'Room remote' using Teams mobile app allowing controlling RXV81 Remote sign-out from Microsoft Teams admin center (TAC). Hide names and meeting titles for individual devices Meeting stage Multi-spotlight Docked meeting controls Reactions Control camera/mic for attendees Live Captions in regular one-on-one calls and in Teams meetings Whiteboard support when signed in with personal account (short term roadmap for whiteboard support with room account) Multi-cloud sign-in support Remote provisioning and sign-in from TAC
<ul> <li>Camera settings with different privileges for user and Admin</li> <li>In idle (Admin) and during a call/meeting (all users), long-pressing the camera button on the RC allows:         <ul> <li>✓ Defining/editing a new preset</li> <li>✓ Moving to different presets</li> <li>✓ Changing all settings options</li> </ul> </li> <li>Video quality: Resolution of 1080p on the decoder side and 720p on the encoding side</li> <li>RXV81 integration with AudioCodes OVOC-DM</li> <li>RXV81 Alerts to AudioCodes OVOC-Device Manager:         <ul> <li>✓ Notification sent to screen/TV and to Device Manager if Remote Control is disconnected or if it's malfunctioning</li> <li>✓ Notification sent to screen/TV and to Device Manager if Remote Control battery voltage level falls low, indicating what percentage level remains unused</li> <li>✓ Remote Control flashes if the connection to RXV81 fails.</li> </ul> </li> <li>Camera frequency set per power supply:         <ul> <li>✓ 110V – 60Hz</li> <li>✓ 220V – 50Hz</li> </ul> </li> </ul>



Feature	Details
	<ul> <li>Ad Hoc Peripheral Mode allows connecting RXV81 via USB to the PC as a peripheral device.</li> </ul>

## 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>.

## 1.8 Certificate Enrollment using SCEP

The device supports certificate enrollment using Simple Certificate Enrollment Protocol (SCEP) using Microsoft's Network Device Enrollment Service (NDES) server without using AudioCodes' OVOC, thereby allowing device certificates and CA certificate provisioning to be scaled to multiple devices.

After devices are provisioned with a SCEP-related configuration, they receive a CA certificate from the NDES (via parameter 'security/ca\_certificate/0/uri'), issue a Certificate Signing Request (CSR) to the NDES and receive a device certificate signed by the CA certificate (the one that the device received from NDES).

Network administrators must configure the following three parameters:

- security/SCEPEnroll/ca\_fingerprint
- security/SCEPEnroll/password\_challenge
- security/SCEPServerURL

The next table shows the parameter descriptions.

**Table 1-3: SCEP Parameters** 

Parameter	Description
security/SCEPEnroll/ca_fingerprint	Define the thumbprint (hash value) for the CA certificate. Default value: NULL.
	Network admins must set its value to (for example):
	3EBE50003ABF1DF5E6B5A3230B02B856
security/SCEPEnroll/password_challenge	Define the enrollment challenge password. Default value: NULL.
	Network admins must set its value to (for example):
	7A7F9FC4BB7625F0935E67EA6D6322ED
security/SCEPServerURL	Define the NDES server's URL. Default: NULL.  Network admins must set its value to (for example):  https://ndes_derver
security/SCEPEnroll/renewal/advancethreshold	Define the renewal advance threshold of the device certificate.
	Configure between 50 and 100 (in units of percentage)
	Default: 80
	This indicates that a renewal of the certificate (device.crt) will be initiated when 80 percent of its validity is reached.



Parameter	Description
security/SCEPEnroll/rollover/advancethreshold	Specify the threshold of the CA Root certificate's validity at which to initiate a renewal.
	Configure between 50 and 100 (in units of percentage).
	Default: 90
	This indicates a renewal of the certificate (CAROOT.crt.) will be initiated when 90 percent of its validity is reached.

## 1.9 Provisioning Certificates in .pfx Format

Device certificates can be provisioned in .pfx format (combining .crt and key). The following parameter values can consequently be configured in the devices' Configuration File:

- /security/device\_certificate\_url = <url>/certificate.pfx
- /security/device\_private\_key\_url = NULL
- security/device\_certificate/password=<pfx password>

The feature is also supported by AudioCodes' Android Phone Utility.



#### Note:



- Certificate loading is performed using HTTP; prior to version 1.19, it was performed using SCP.
- The HTTP port is 8000.
- Make sure the port is not blocked by the organization's firewall.

# 2 Connecting to RXV81



**Note:** See the *RXV81 MTR* on Android Video Collaboration Bar with *RX-PAD* or *RCU* Quick Guide shipped with the product or available from AudioCodes for information about the hardware of RXV81, including:

- Package contents
- Mounting
- Cabling

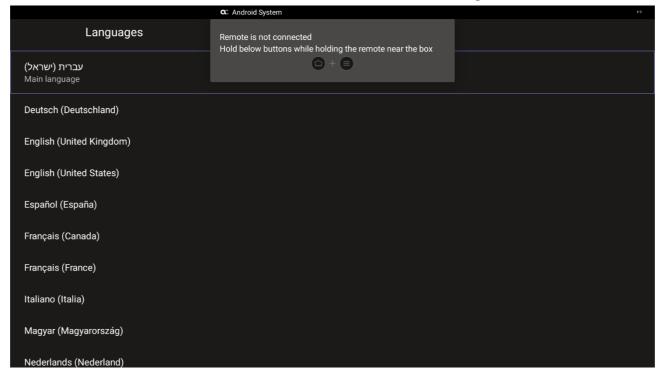
After mounting and cabling the RXV81 device as shown in the Deployment Guide, pair it with the

- Remote Controller (see the <u>next section</u>)
- RX-PAD (see Pairing RX-PAD with Teams Rooms on Android AudioCodes Devices)

## 2.1 Pairing with the RC

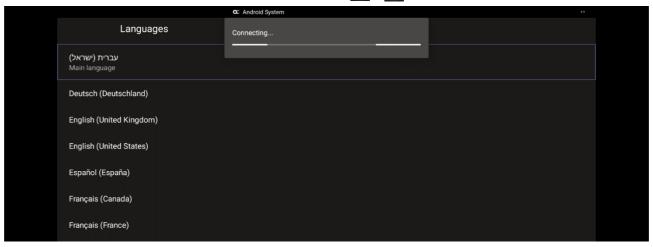
The instructions here show how to pair RXV81 with the RC. Applies to users who acquired the **TEAMS-RXV81** bundle.

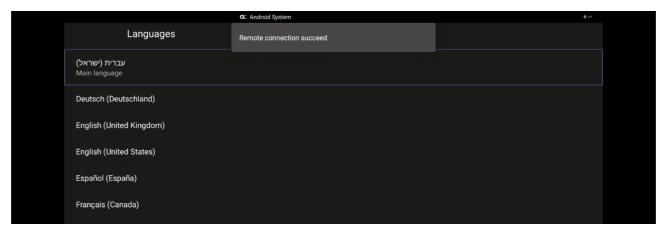
- To pair RXV81 with the RC:
- 1. After cabling, remove the RC from its packaging and insert the batteries supplied into it.
- View in the display the message:
   Remote is not connected. Hold below buttons while holding the remote near the box.



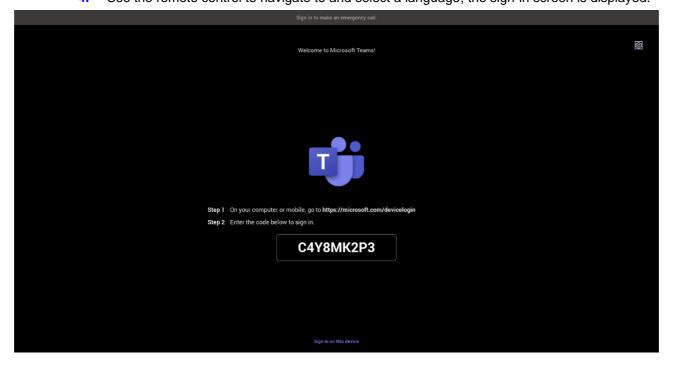


3. On the RC, simultaneously press and hold + until RC and RXV81 are connected.





4. Use the remote control to navigate to and select a language; the sign-in screen is displayed.



## 2.2 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.



## 2.2.1 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.





#### 2.2.2 Remote Provisioning and Sign in from Teams Admin Center

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

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

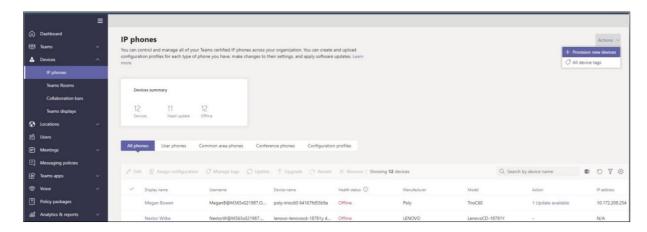
To provision a device remotely, the network administrator needs to upload the MAC IDs of the devices being provisioned and create a verification code. The entire process can be completed remotely from the Teams admin center.

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.





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.

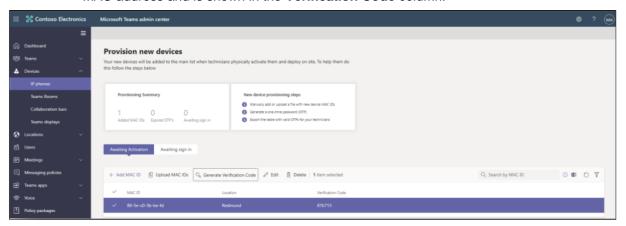
Upload a file to add a device MAC address

- 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.

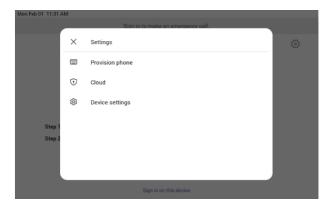
From the **Awaiting Activation** tab, select an existing MAC ID. A password is created for the MAC address and is shown in the **Verification Code** column.



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**.



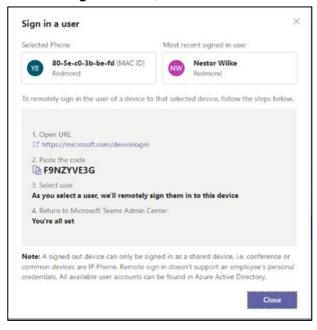
The technician is then expected to enter the device-specific Verification code that was provided in the Teams admin center on the phone's user interface. Once the device is provisioned successfully, the tenant name will be available on the sign in page.



Step 4: Sign in remotely

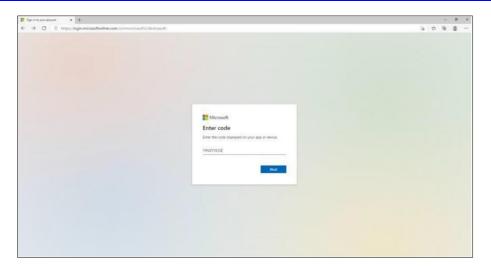
The provisioned device appears in the Awaiting sign in tab. Initiate the remote sign-in process by selecting the individual device.

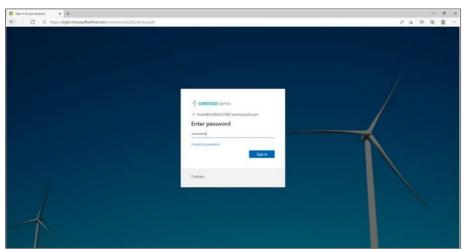
- 1. Select a device from the **Awaiting sign in** tab.
- 2. Follow the instructions in **Sign in a user**, and then select **Close**.



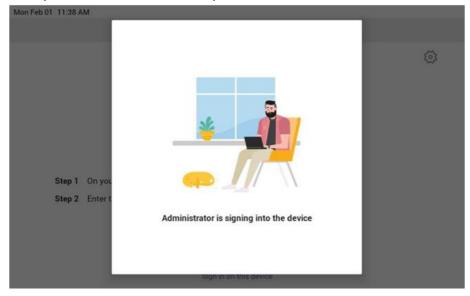
The tenant admin is expected to complete authentication on the device from any browser or smartphone.







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.



#### 2.3 **Customizing a Background**



Note: 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 <u>here</u> for more information.



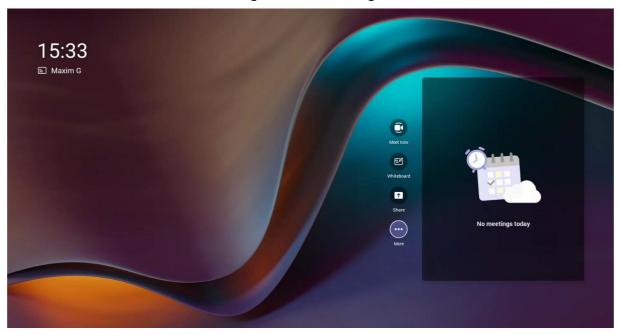
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# 3 Using General RXV81 Functions

This section shows how to use general RXV81 functions.

- > To get started:
- 1. After signing in, view the RXV81 home page.

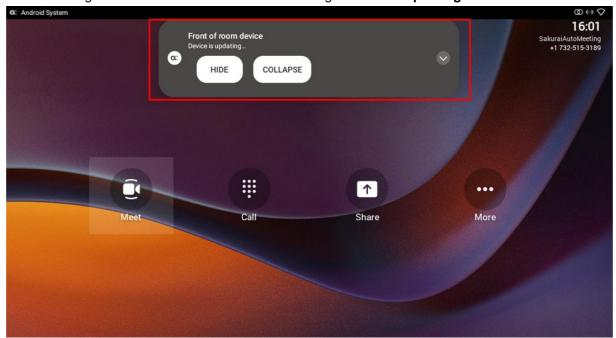
Figure 3-1: Home Page



## 3.1 Managing Notification Messages

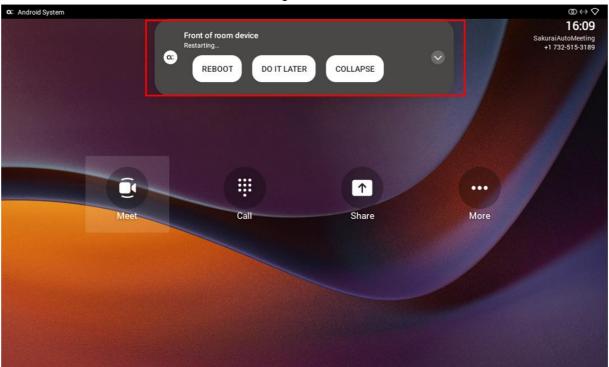
Notification messages that pop up on the RXV81 device are seamlessly mirrored in the bundled RX-PAD. When a message pops up in the RXV81 GUI, the same is displayed in RX-PAD. The feature streamlines user experience, allowing users to conveniently confirm messages directly from RX-PAD and manage notifications intuitively and efficiently.

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





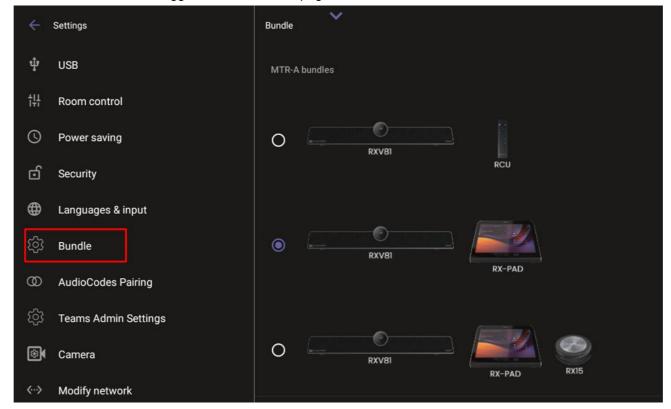
If the alert is an action, you can perform the action using RX-PAD, for example, REBOOT / DO IT LATER / COLLAPSE, as shown in the figure below.



## 3.2 Configuring a Bundle

Admins can configure an RXV81 bundle. Information about available bundles can be seen here.

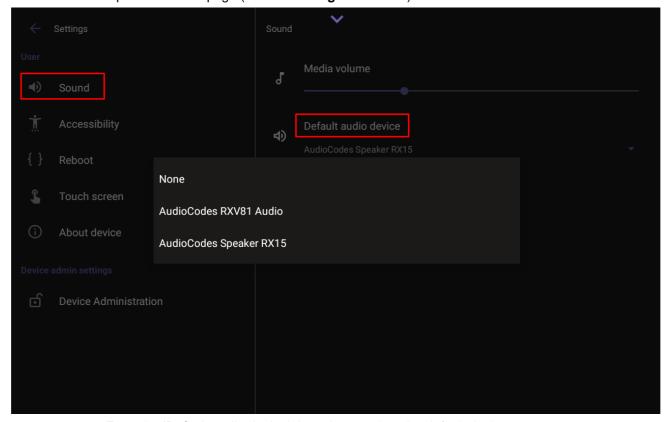
- > To configure a bundle:
- Use the RX-PAD Keypad app that controls RXV81 to navigate to the Bundles page. Admin must be logged in to access the page:



# 3.3 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**).



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



## 3.4 Modifying RXV81 Camera Settings

You can modify RXV81 Camera Settings relating to the look and feel of the video user interface, to suit your preferences.

- To access RXV81 Camera Settings:
- On the RCU, long-press the camera icon
- In RX-PAD, long-press the camera icon on the device.

Figure 3-2: RXV81 Camera Settings when using RCU (not RX-PAD)



#### Note:

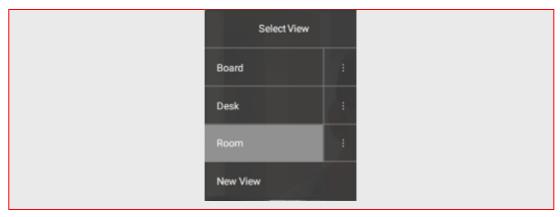
 During a call, all users who are signed into RXV81 – Admins and personal users - can change Camera settings, including the presets. All have the permissions required to do so. When the call ends, RXV81 reverts to its preconfigured presets.



- Using a Teams shared account, only the Admin can access Camera Settings in idle
  and edit camera presets; the user can only move between the defined presets during
  a video call/meeting. The user can change Camera Settings during the meeting but
  the changes are not saved.
- Changing camera settings during a meeting can be done without turning off the video to remote parties.
- The option to access Camera settings from RXV81's Device Settings still exists; administrator permissions will be required in this case.
- The Camera settings option allows saving different camera settings to be used in a video call so that users can switch easily between predefined camera settings (camera presets) per user requirements in the call.



**Note:** Users can toggle between the presets, a convenient way to move from one preset to another, to view each preset and to reconfigure a preset. Click the **Camera Views** option and in the **Select View** menu that opens, choose the required preset.



- For example, if a preset is configured to zoom in and focus on the whiteboard in a room, users in a video call/meeting can switch to it and later switch back to the full room preset or any other predefined preset. It's recommended to have a few presets configured for locations frequently zoomed in and focused on:
  - Full room view to capture all participants and action in a meeting room
  - Presenter or single user / desk view to focus on a single user in the room, usually the presenter
  - Whiteboard view if there's a whiteboard in the room
  - Sunlight or dark modes if direct sunlight enters the room at specific times of the day/year

Camera settings can be changed during a meeting without turning off the video to remote parties.

- To add a camera preset when in idle mode:
- 1. Long-press the camera button to access **Camera settings**.

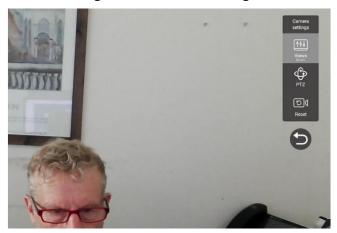
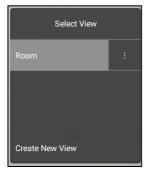


Figure 3-3: Camera settings

2. Navigate to and select Views to create a view; you can create up to three views.



3. Navigate to and select **PTZ** to define pan, tilt, and zoom settings for each view.





4. Navigate to and select **Reset** for the camera settings to return to their defaults.

# 3.5 Starting a New Meeting

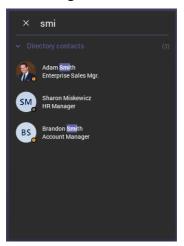
- To start a new meeting:
- 5. In the home screen, navigate to and select the **Meet Now** option.

Figure 3-4: New meeting - Invite someone



6. 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.

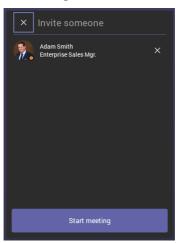
Figure 3-5: New meeting – Enter the name of a person



7. Select the name of the person to invite.



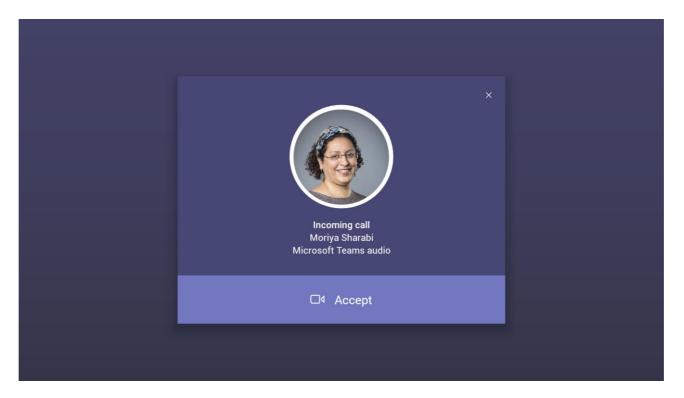
Figure 3-6: New meeting – Select the name of a person



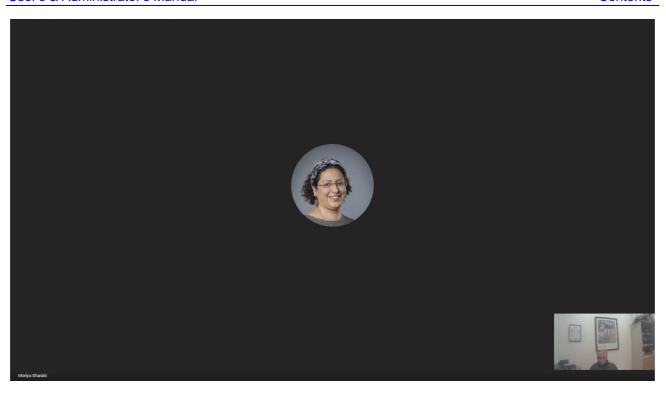
8. Invite someone else – or others – and then select **Start meeting**.

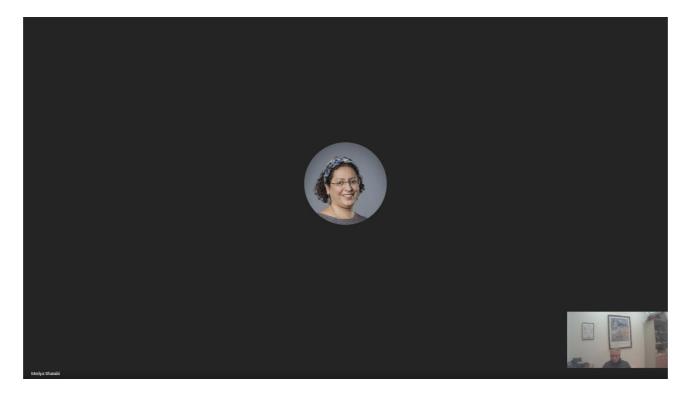


**Note:** The server allocates a meeting ID number and sends an invite message to all participant devices. All devices simultaneously indicate an incoming call (the 'Calling' screen is displayed). The server manages every aspect of the call.



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







# 3.6 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.

Figure 3-7: Dial pad

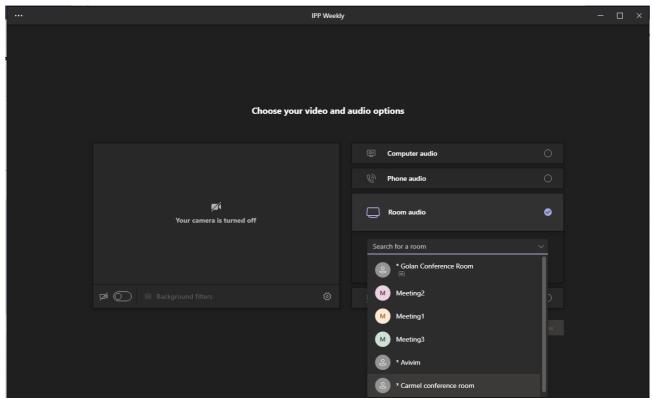


2. Enter the digits of the destination to call and select Call.

## 3.7 Enabling Proximity Join

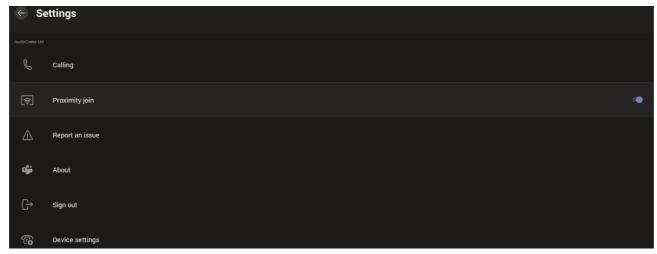
'Proximity Join' allows you to discover and add a nearby, available Microsoft Teams Room, i.e., RXV81, in this case, to any meeting. It's also possible to accept the incoming meeting on the console of the room.

The feature functions in combination with Bluetooth and 'Bluetooth Beaconing', an integral feature in Microsoft Teams Rooms (MTRs). The MTR device is RXV81. If you bring a laptop or a Teams Mobile Client near RXV81, it'll offer RXV81 as the room audio device. The figure below shows how to select the room audio device.



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 (RXV81) 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.

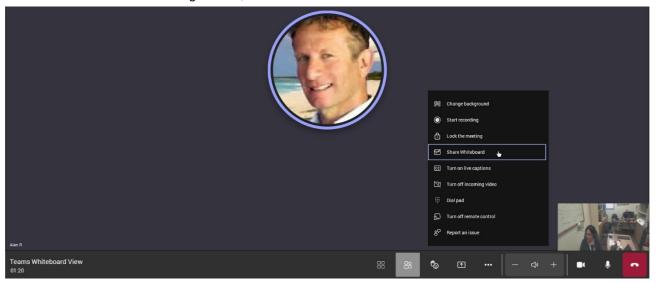




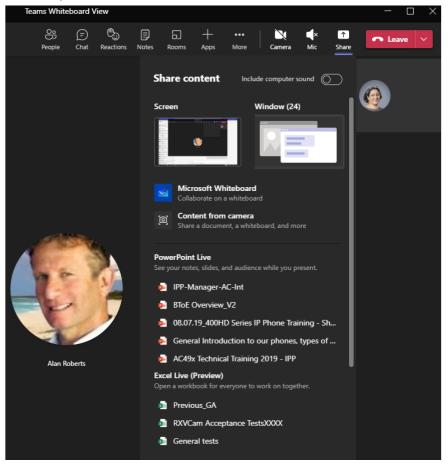
# 3.8 Sharing a Whiteboard

Teams meetings on RXV81 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 <a href="here">here</a>.

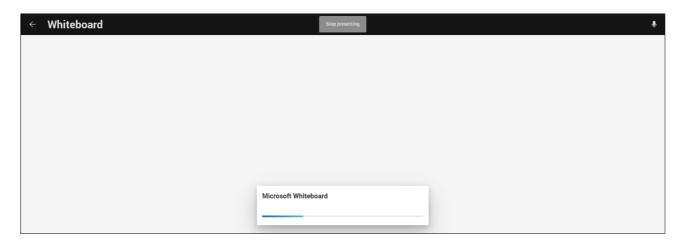
- To share the Whiteboard:
- 1. From the Settings menu, select Share Whiteboard.



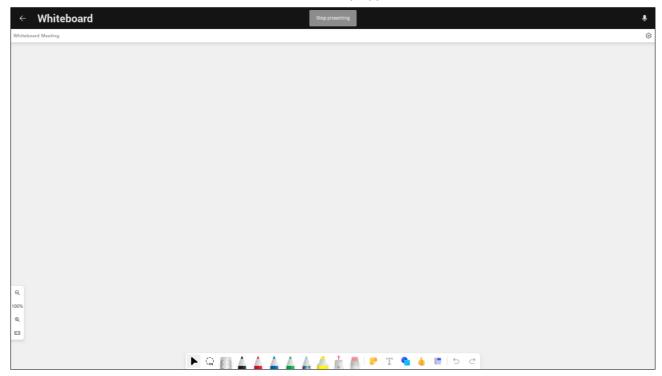
2. Alternatively, access the Whiteboard from **Share content**:



3. View the following Microsoft Whiteboard initializing indication:

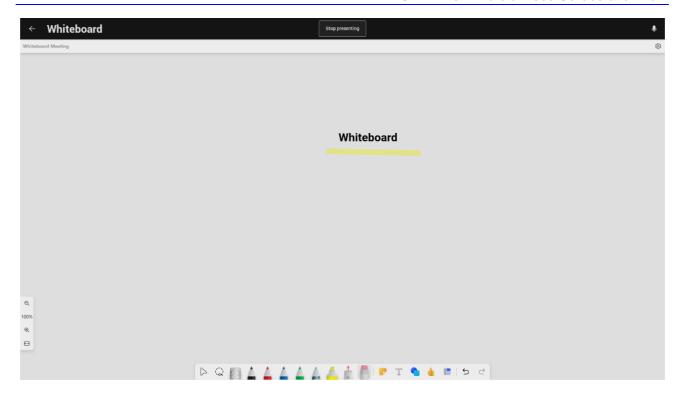


**4.** View the Whiteboard in the Teams desktop application or in Teams client:



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





## 3.9 Screen Sharing

RXV81 enables users to share their PC screen via the RX-PAD HDMI In port. The feature extends HDMI In functionality.



#### Note:

- A short HDMI cable connects the PC/laptop to the RX-PAD HDMI in port.
- The connection between RX-PAD and RXV81 is thus 'cableless'.

Two modes are available:

- 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.



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



### 3.10 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.



## 3.11 Signing out

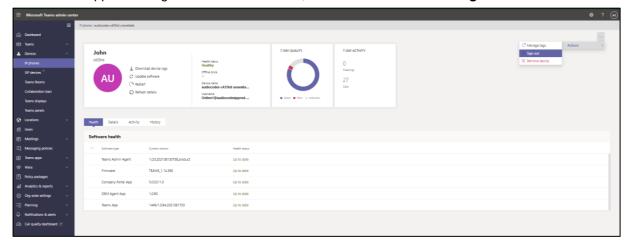
You can sign out of the application as one user and optionally sign in again as another.

- To sign out:
- Navigate to Teams admin settings > Teams sign out and confirm in the prompt below.



Optionally, remote sign-out can be performed from Microsoft Teams admin center (TAC). Admins can provision RXV81 from the TAC, remotely sign in, and also sign out.

- To sign out of RXV81 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**.

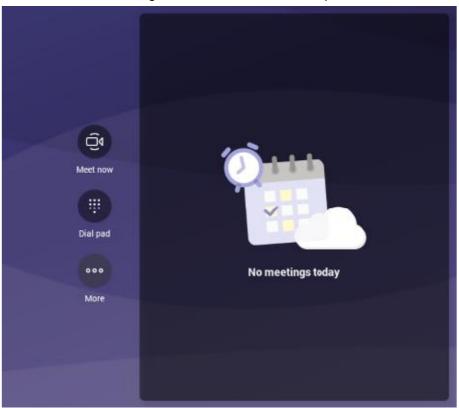


# 4 Configuring RXV81 Settings

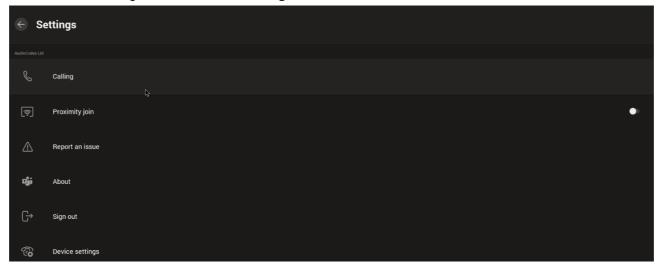
The section familiarizes you with RXV81's settings. RXV81s are delivered configured with their default settings. Customers can customize them to suit enterprise requirements.

### > To access device settings:

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

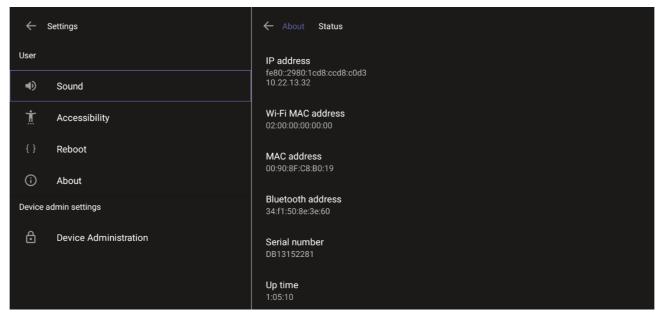


Navigate to and select Settings.

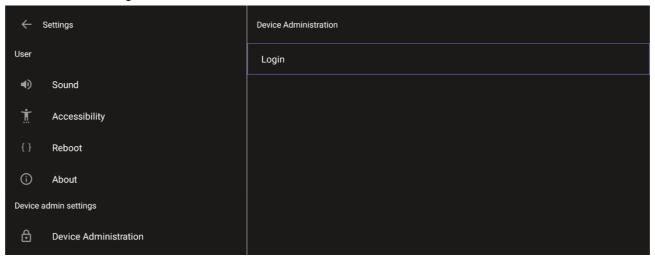


3. Navigate to and select **Device settings**.





4. Navigate to and select **Device Administration**.



**5.** Log in as administrator.



**Note:** 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.



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



**Note:** The virtual keyboard pops up for all 'Settings' fields to allow inputting characters and / or numbers. Two virtual keyboard types can be displayed: Numeric or QWERTY.

8. Select **OK**; you're prompted to change password.



#### Note:

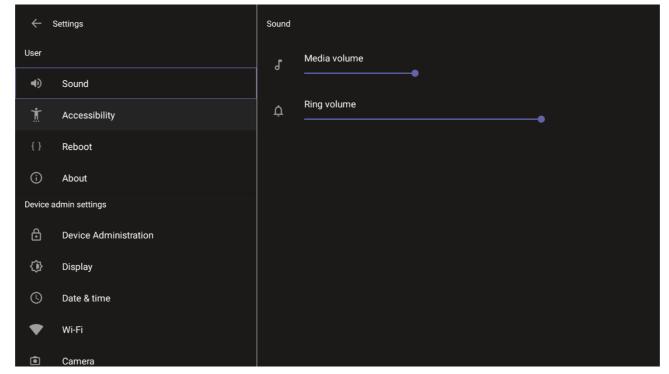
- The default password must be changed before access to the device via SSH is allowed.
- The default password can be changed per device from the GUI, or via bulk configuration of multiple devices using Microsoft's TAC or AudioCodes' Device Manager.
- 9. Enter a password; you're prompted to verify the 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.



**Note:** 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.





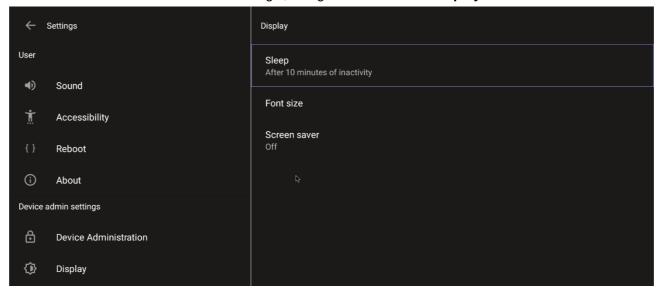
## 4.1 Device Admin Settings

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

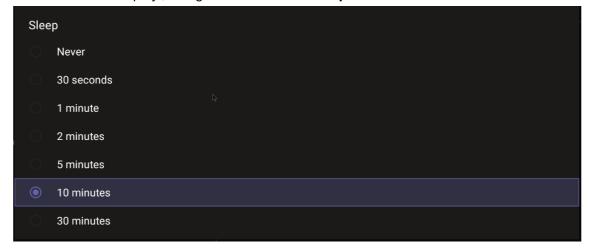
### 4.1.1 Configuring Display

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**.



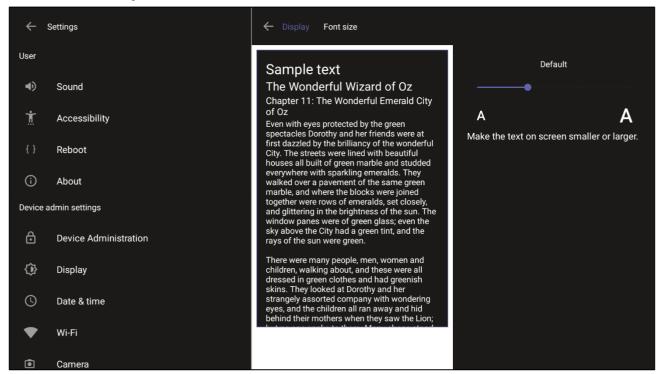
2. Under 'Display', navigate to and select Sleep.



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

Note that 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.



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

## 4.1.2 Configuring Time Zones on Teams Devices



#### Note:

- 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.



**Note:** 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):

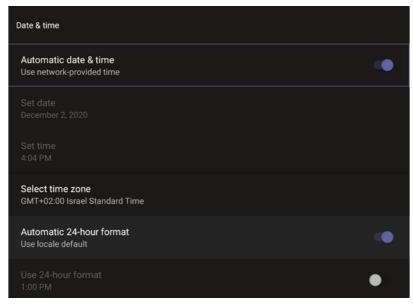
Configuration is obtained from DHCP server (once defined as available).

### 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.



### 4.1.3 Configuring Wi-Fi

RXV81 can connect to an Access Point via Wi-Fi. Network administrators can configure Wi-Fi parameters for RXV81. The parameters are concealed from the user's view. Users can enable | disable Wi-Fi in the device's user interface.



**Note:** 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.

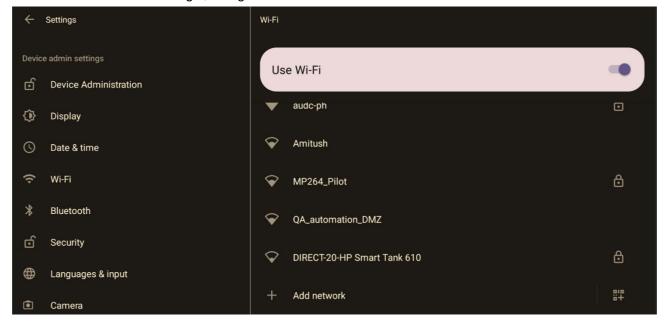
### 4.1.3.1 Connecting to an Available Wi-Fi Network

To connect to an available Wi-Fi network:



**Note:** 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.

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



- 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'.



### 4.1.3.2 Manually Connecting to a Wi-Fi Network

To manually connect to a Wi-Fi network:

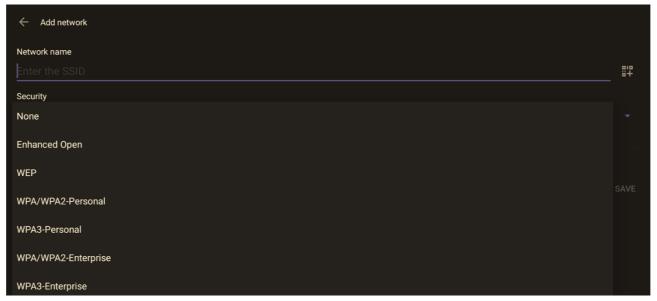


**Note:** Make sure to first disconnect your Ethernet cable. If it's connected, the device will not be able to connect to a Wi-Fi network.

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



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



3. 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.



#### Note:



- '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 4-1, using the Configuration File.

**Table 4-1: Configuration File Wi-Fi Parameters** 

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.



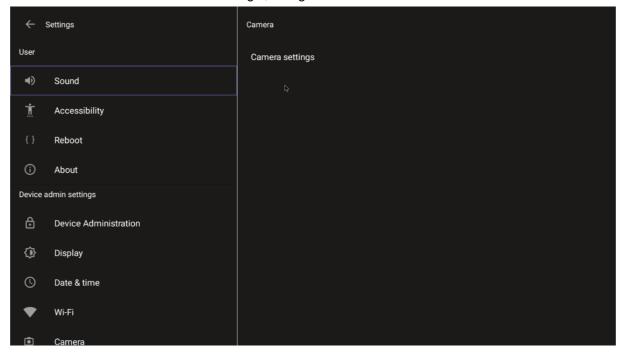
Parameter	Description
network/wireless/adavanced_ options/proxy/manual/proxy_port	Defines the proxy port.
network/wireless/anon_identity	Defines the anonymous wireless users who won't be seen.
network/wireless/ca_cert	Defines which CA certificate to use.
network/wireless/client_cert	Defines which client 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).

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## 4.1.4 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. Under 'Device admin settings', navigate to and select 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:



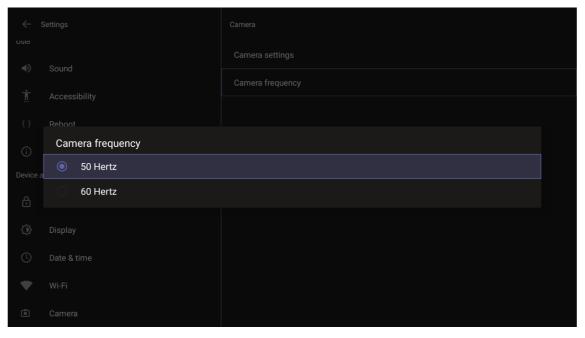
3. Create and edit presets using PTZ control.



### 4.1.4.1 Configuring Camera Frequency

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

- 110V 60Hz
- 220V 50Hz



### 4.1.5 Auto Framing

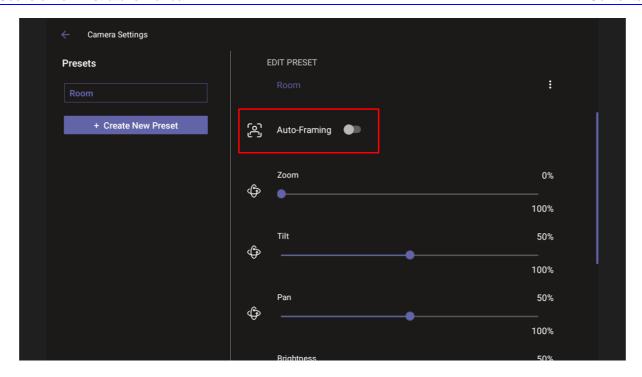
An Auto-Framing option is available under Camera Settings.

- To enable Auto-Framing on RXV81 paired with RX-PAD, use the camera hard key to access the Camera Settings page.
- For RXV81 paired with the Remote Controller unit (RCU), long-press the RCU's camera button to access the Camera Settings page.

#### Note:

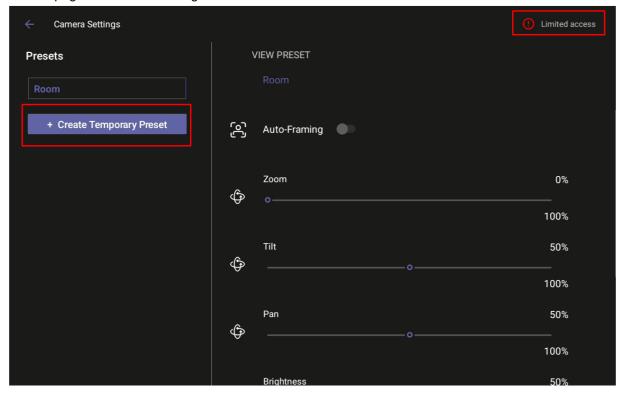


- Admin users can create a permanent camera settings preset including enable / disable of Auto Framing.
- End users can either select a preconfigured preset which includes enable / disable of Auto Framing or create a temporary preset *during a meeting* (which will be deleted at the end of the meeting) and can enable / disable Auto Framing.



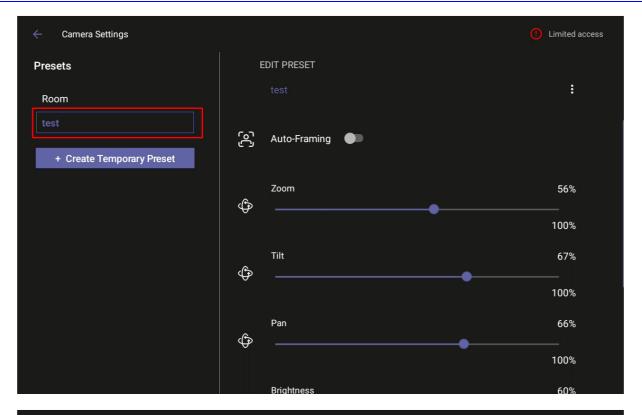
When Auto-Framing is enabled, PTZ (Pan Tilt Zoom) functions are disabled.

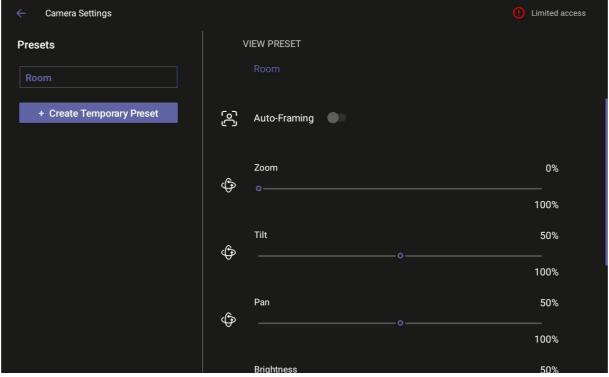
End users without administrator permissions can create temporary presets in the Camera Settings page as shown in the figures below.



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



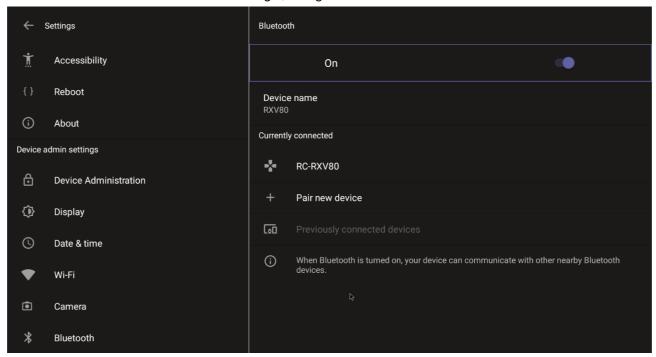




### 4.1.6 Pairing RC with RXV81 via Bluetooth

Bluetooth is currently used to pair the RC with RXV81.

- > To pair a new device:
- 1. Under 'Device admin settings', navigate to and select **Bluetooth**.

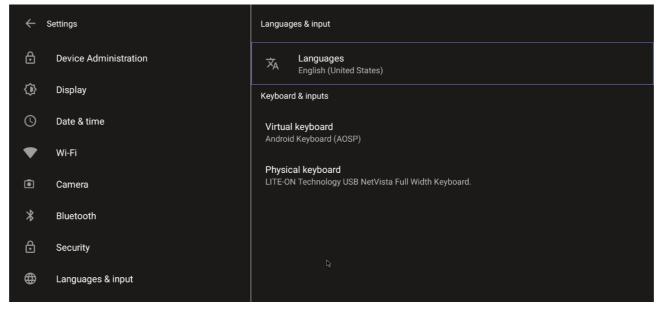


2. Navigate to and select Pair new device.

## 4.1.7 Configuring UI Language & Input

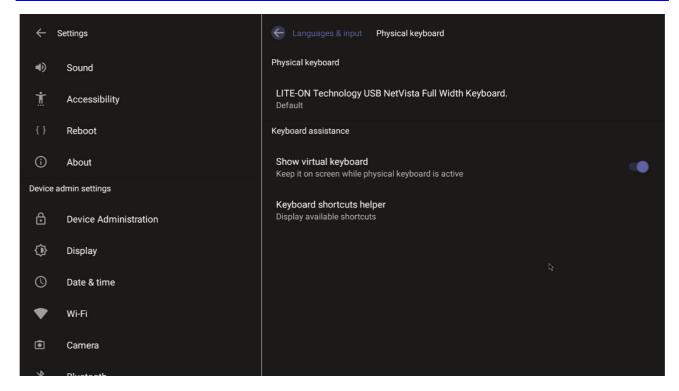
This setting allows users to customize inputting to suit personal requirements.

- > To set language and input:
- 1. Under 'Device admin settings', navigate to and select **Languages & input**.



2. Navigate to and select Physical keyboard.



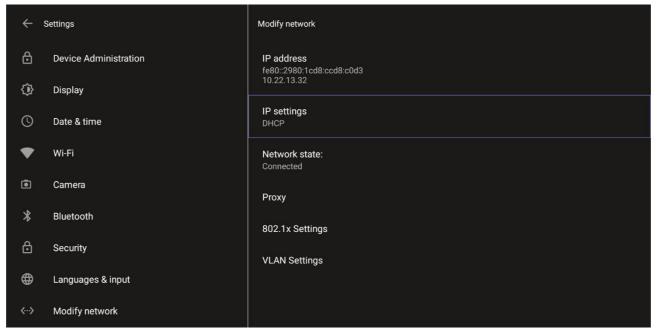


3. Navigate to and select **Show virtual keyboard**.

### 4.1.8 Modifying IP Network Settings

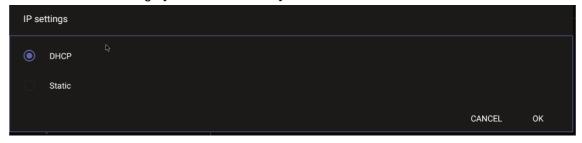
This setting enables the Admin user to determine IP network information and to modify IP network settings.

- To modify network settings:
- 1. Under 'Device admin settings', navigate to and select **Modify network**.

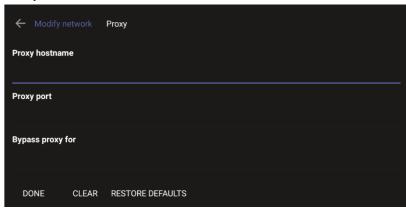


### Navigate to and select:

- IP Address [Read Only]
- IP Settings [DHCP or Static IP]

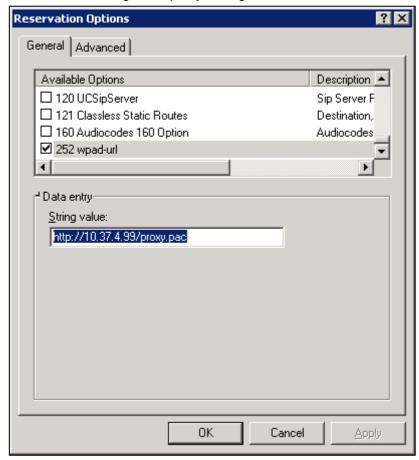


- Network state [Read Only]
- Proxy





- Manually (from the screen shown in the preceding figure). Allows you to configure RXV81 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:



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 <a href="https://1.ieee802.org/security/802-1x/">https://1.ieee802.org/security/802-1x/</a> 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)]

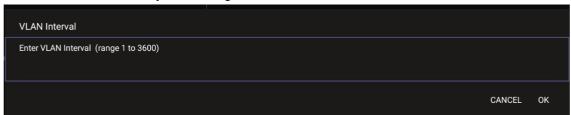


Cisco Discovery Protocol (CDP) is a Cisco proprietary Data Link Layer protocol Link Layer Discovery Protocol (LLDP) is a standard, layer two discovery protocol



**Note:** 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' 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.

#### Note:



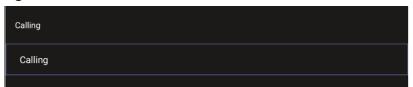
- In versions before 1.19, if network VLAN mode '/network/lan/vlan/mode' was set to LLDP, the device retrieved the VLAN and LLDP switch information (for location purposes) from LLDP.
- From version 1.19, LLDP switch information (for location purposes) is retrieved when parameter network/lan/lldp/enabled=1 (even when VLAN is retrieved from **CDP** or VLAN is disabled or VLAN is **Manual**).



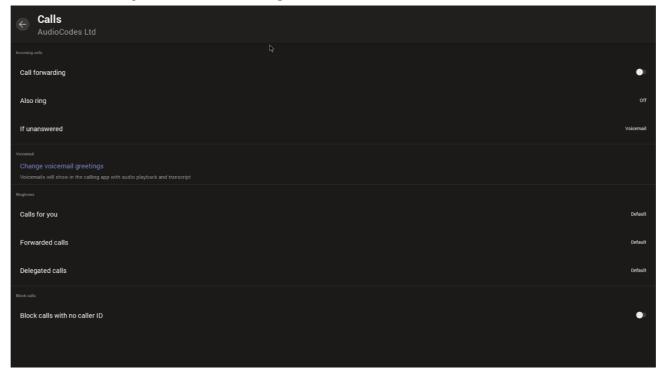
### 4.1.9 Configuring Call Settings

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**.



2. Navigate to and select Calling.



- 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.

### 4.1.10 Configuring DSCP for QoS

RXV81 Teams application supports DS (Differentiated Services) containing a differentiated Services Code Point (DSCP) value and an ECN (Explicit Congestion Notification) value, for monitoring Quality of Service (QoS).

DSCP is part of the IP header that defines the type of routing service to tag outgoing voice packets originated from the device. It informs routers that this packet must receive a specific QoS. Values can be set in decimal (e.g., 184) or hexadecimal (e.g., 0xb8). The default value is 0xb8 (184).

The DSCP value for audio is 0x46.

The DSCP value for video is 0x34 (screen sharing is not supported).

See also Microsoft's website for more information.



Note: The DSCP value can be adjusted on the server; it cannot be adjusted on the client.

The figure below shows the recommended port ranges.

ledia traffic type	Client source port range	Protocol	DSCP value	DSCP class
Audio	50,000-50,019	TCP/UDP	46	Expedited Forwarding (EF)
Video	50.020-50.039	TCP/UDP	34	Assured Forwarding (AF41)
Application/Screen Sharing	50.040-50.059	TCP/UDP	18	Assured Forwarding (AF21)

The figure below shows the recommended DSCP setting for Audio.

```
2057 47.390455 192.168.2.104 172.17.178.203
                                                                        UDP
                                                                                                 84 50006 + 50012 Len=42
   2058 47.390541 192.168.2.104
                                           172.17.178.203
                                                                                                228 50006 - 50012 Len=186
                                                                         UDP
   2059 47.393899
                    192.168.2.104
                                           172.17.178.203
                                                                         UDP
                                                                                                151 50006 → 50012 Len=109
   2060 47.395193 172.17.178.203
                                           192,168,2,104
                                                                         LIDE
                                                                                                114 50012 + 50006 Len=72
   2061 47.395209
                    172.17.178.203
                                           192,168,2,104
                                                                         UDP
                                                                                                114 50012 → 50006 Len=72
Frame 2057: 84 bytes on wire (672 bits), 84 bytes captured (672 bits) on interface \Device\NPF {296D2E63-3934-488A-BFAB-666A48797EE2}, id 0
Ethernet II, Src: AudioCod 9c:1a:38 (00:90:8f:9c:1a:38), Dst: VMware ff:63:15 (00:0c:29:ff:63:15)
Internet Protocol Version 4, Src: 192.168.2.104, Dst: 172.17.178.203
   0100 .... = Version: 4
       . 0101 = Header Length: 20 bytes (5)
Differentiated Services Field: 0xb8 (DSCP: EF PHB, ECN: Not-ECT)
1011 10.. = Differentiated Services Codepoint: Expedited Forwarding (46)
       .....00 = Explicit Congestion Notification: Not ECN-Capable Transport (0)
   Total Length: 70
   Identification: 0xd3ba (54202)
> Flags: 0x4000, Don't fragment
   Fragment offset: 0
   Time to live: 64
   Protocol: UDP (17)
   Header checksum: 0x4447 [validation disabled]
   [Header checksum status: Unverified]
   Source: 192.168.2.104
   Destination: 172,17,178,203
User Datagram Protocol, Src Port: 50006, Dst Port: 50012
```



### The figure below shows the recommended DSCP setting for Video.

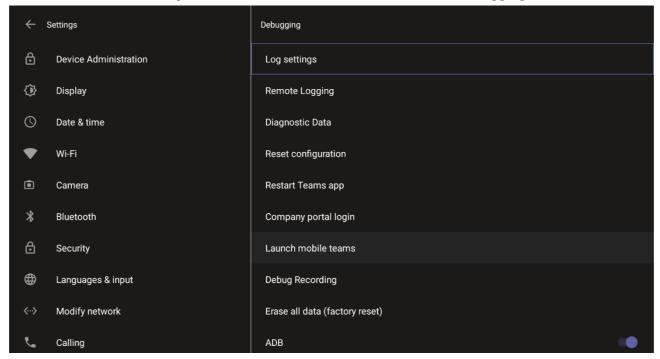
2290 8.194033	192.168.2.103	172.17.178.101	UDP	1022 50036 + 50023 Len=980
2291 8.194102	192,168.2.183	172.17.178.181	line	1822 58836 + 58823   en=988
Frame 2290: 1022 b	ytes on wire (8176	oits), 1022 bytes captured	(8176 bits) on int	erface \Device\NPF_{296D2E63-3934-4B8A-BFAB-666A4B797EE2}, id 0
Ethernet II, Src:	DolbyLab_10:02:04 (	00:d0:46:10:02:04), Dst: V	Mware_ff:63:15 (00:	0c:29:ff:63:15)
Internet Protocol	Version 4, Src: 192	168.2.103, Dst: 172.17.17	8.101	
0100 = Ver	sion: 4			
0101 = Hea	der Length: 20 byte:	(5)		
→ Differentiated	Services Field: 0x88	(DSCP: AF41, ECN: Not-EC	T)	
1000 10 =	Differentiated Servi	ces Codepoint: Assured For	rwarding 41 (34)	
00 =	Explicit Congestion	Notification: Not ECN-Capa	able Transport (0)	
Total Length: 1	899			
Identification:	0x8368 (33640)			
> Flags: 0x4000,	Don't fragment			
Fragment offset	: 0			
Time to live: 6	4			
Protocol: UDP (	17)			
Header checksun	: 0x9186 [validation	disabled]		
[Header checksu	m status: Unverified	1]		
Source: 192.168	.2.103	The Action of th		

### 4.1.11 Debugging

Admin users can perform debugging for troubleshooting purposes. A bug report is available to allow admins to perform efficient debugging. The report also includes information such as pack up time, ps, top, meminfo and df commands (information about file system disk space usage) for optimized debugging.

### > To perform debugging:

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



- 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)

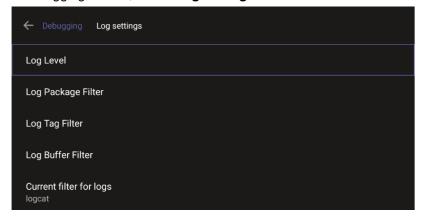


### 4.1.11.1 Log Settings | Collecting Logs

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:

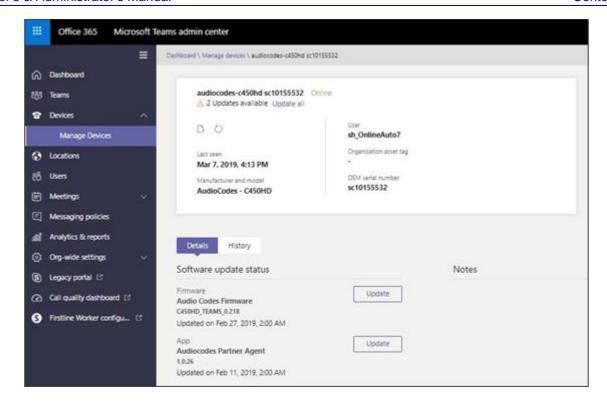
1. In the Debugging screen, select **Log settings**.



- 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**.



- 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.





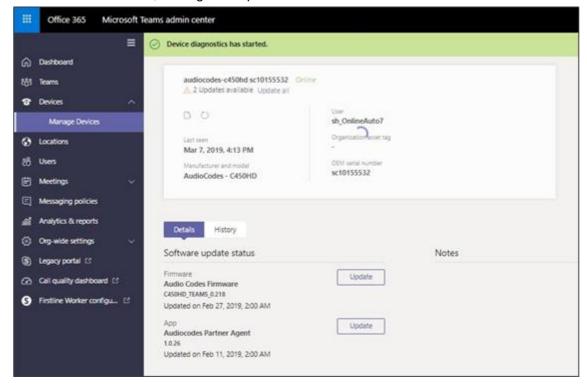
**Note:** The preceding figure is for illustrative purposes. It shows an AudioCodes phone. The same screen is displayed for RXV81.

3. Click the Diagnostics icon?

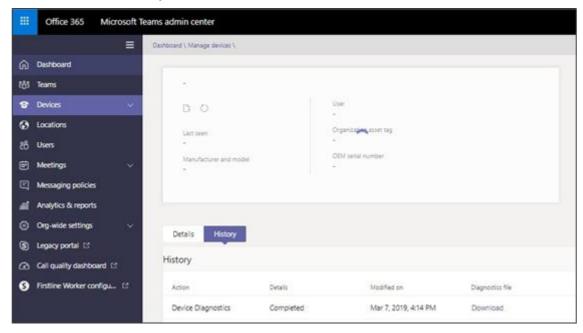




4. Click **Proceed**; the logs are uploaded to the server.



5. Click the **History** tab.



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

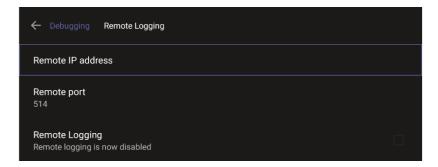
### 4.1.11.2 Remote Logging

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:

Navigate to and select Remote logging.



**8.** 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>.
```

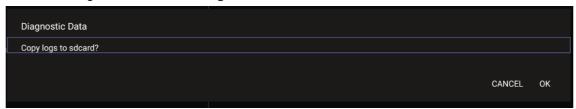
> To disable Syslog using SSH, type the following command at the shell prompt:

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

### 4.1.11.3 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**.



- 2. Navigate to and select **OK** to confirm 'Copy logs to sdcard'; RXV81 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

### 4.1.11.4 Reset configuration

Admin users can opt to 'clean up' their configuration history and return RXV81 to an Out of Box Experience (OOBE). If the Teams app isn't running well, this might help.



#### To reset the configuration:

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.

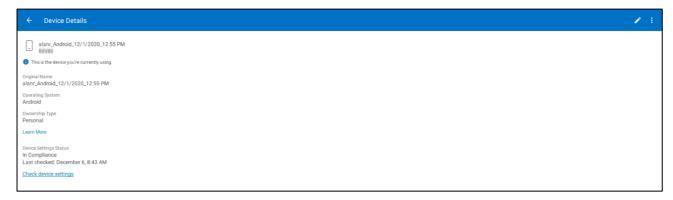
See also here.

### 4.1.11.5 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.

### 4.1.11.6 Company Portal Login

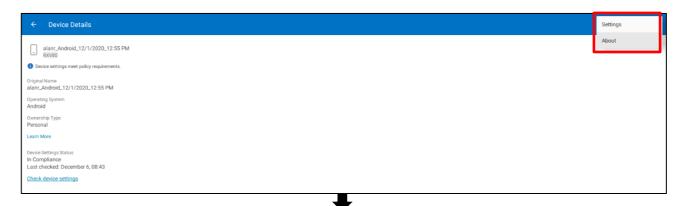


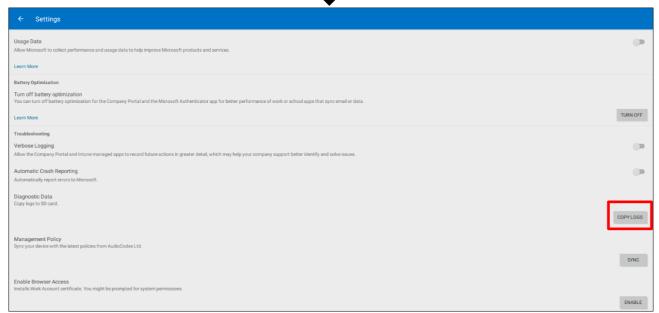
### 4.1.11.7 Getting Company Portal Logs

Company Portal logs can be helpful to network administrators when there are issues with signing in to Teams from the 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 RXV81 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**:





6. Navigate to and select Copy Logs.

Company portal logs are copied to:

 $\verb|sdcard/Android/data/com.microsoft.windows in tune.company portal/files/|$ 

**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.

#### 4.1.11.8 Launch Mobile Teams

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

### 4.1.11.9 Debug Recording

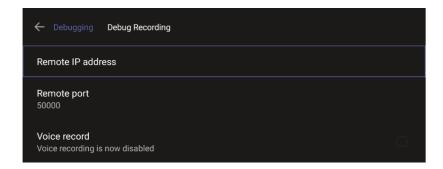
This feature enables Admin users to perform media/DSP debugging.



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

- > To reset the configuration:
- 1. Navigate to and select **Debug Recording**.



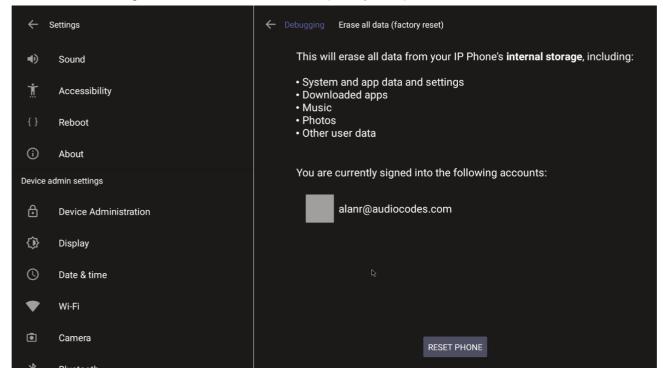


- Navigate to and select Voice record to enable the feature.
- 3. Navigate to and select **Remote IP address** to input the IP address of the device whose traffic you want to record.
- 4. Navigate to and select **Remote port** and input it (Default: 5000).
- 5. Start Wireshark on your PC to capture audio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

### 4.1.11.10 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.

### 4.1.11.11 Screen Capture

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

## 4.2 Performing Recovery Operations using Power Button

Network administrators can perform recovery operations using the power button on the rear panel of RXV81.



**Note:** 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:

- Disconnect the power cord from RXV81 while long-pressing the power button for as long as is required for the action (see Table 4-2 below for the available actions - see the Action column - and durations - see the Long-press for column).
- Reconnect the power cord and continue pressing the power button for however long is necessary.

Stage	Action	Long-press for	LED Flashes 3x
	NOTHING	<= 2 seconds	
On Uboot	ENTER_RECOVERY	2-4 seconds	RED
	SWITCH_AB_SLOT	4-6 seconds	WHITE
	ENTER LOADER	6-8 seconds	BLUE
	RESTORE_DEFAULT	8-10 seconds	BLUE + WHITE
	SHUTDOWN	> = 10 seconds	

Table 4-2: Recovery Operation Options using RXV81's Power Button

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



## 4.3 Restoring RXV81 Firmware via USB Disk

For recovery purposes, firmware can be applied to RXV81 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 Table 4-2 above (Action: ENTER\_RECOVERY); the device's LED lights up red.
- 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.



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

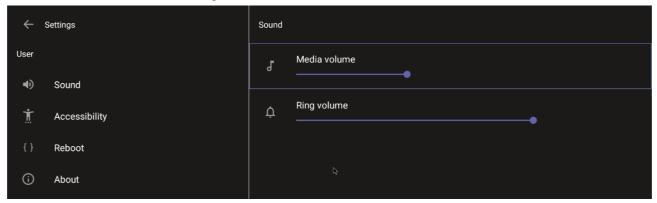
## 4.4 User Settings

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

### 4.4.1 Setting the Volume

You can customize phone volume for a friendlier user experience.

- > To configure sound settings:
- Under 'User', navigate to and select Sound.



## 4.4.2 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.



2. Adjust the settings to suit personal requirements.

## 4.4.3 Setting Live Captions

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



# 4.4.4 Enabling Display of Meeting Name using Exchange Online PowerShell

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':

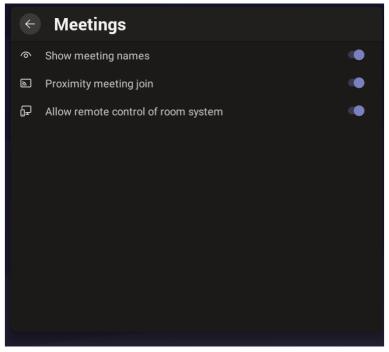
```
PS C:\Users\waynea> Get-CalendarProcessing -Identity Maxim_MTR | FL
AutomateProcessing
                                       : AutoAccept
AllowConflicts
                                       : False
AllowDistributionGroup
                                       : True
AllowMultipleResources
                                       : True
BookingType
                                       : Standard
BookingWindowInDays
                                       : 180
MaximumDurationInMinutes
                                       : 1440
MinimumDurationInMinutes
                                       : 0
                                       : True
AllowRecurringMeetings
EnforceAdjacencyAsOverlap
                                       : False
EnforceCapacity
                                       : False
EnforceSchedulingHorizon
                                       : True
ScheduleOnlyDuringWorkHours
                                       : False
ConflictPercentageAllowed
                                       : 0
MaximumConflictInstances
                                       : 0
ForwardRequestsToDelegates
                                       : True
DeleteAttachments
                                       : True
DeleteComments
                                         False
RemovePrivateP
DeleteSubject
                                       : False
AddOrganizerToSubject
                                       : False
DeleteNonCalendaritems
TentativePendingApproval
                                       : True
EnableResponseDetails
                                       : True
OrganizerInfo
                                       : True
ResourceDelegates
                                       : {}
: {}
: False
RequestOutOfPolicy
AllRequestOutOfPolicy
BookInPolicy
AllBookInPolicy
                                       : {}
: True
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
                                       : False
EnableAutoRelease
PostReservationMaxClaimTimeInMinutes : 10
MailboxOwnerId
                                       : Maxim_MTR
Identity
                                       : Maxim_MTR
IsValid
                                         True
ObjectState
                                       : Changed
```

'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

### 4.4.5 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):



### 4.4.6 Rebooting RXV81

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

- > To reboot:
- Under 'User', navigate to and select **Reboot**.

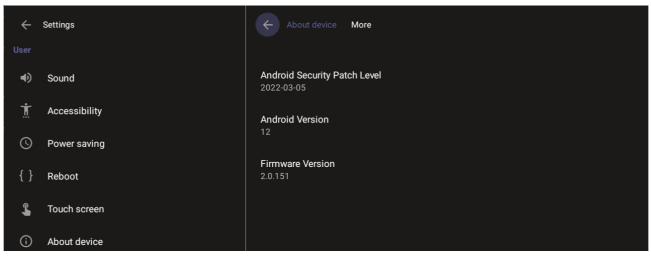


## 4.4.7 Viewing About RXV81

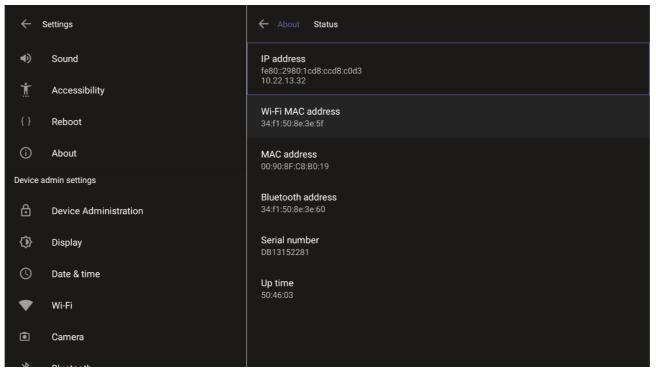
The 'About' screen gives you quick access to information about RXV81 deployment.

- To access the About screen:
- 1. Navigate to and select About device.





2. Navigate to and select Status.



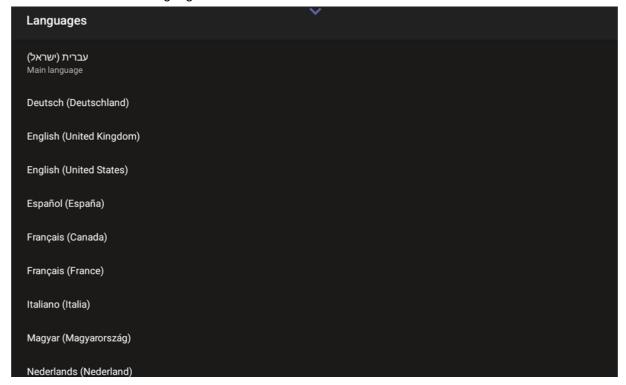
3. View RXV81's firmware information.

### 4.5 Advanced Features

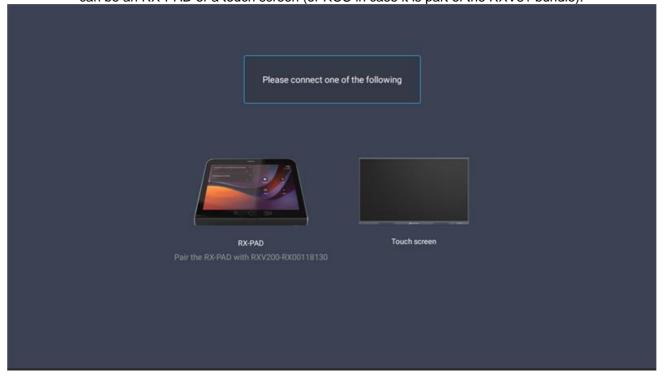
### 4.5.1 Setting Up RXV200 using Wizard

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:

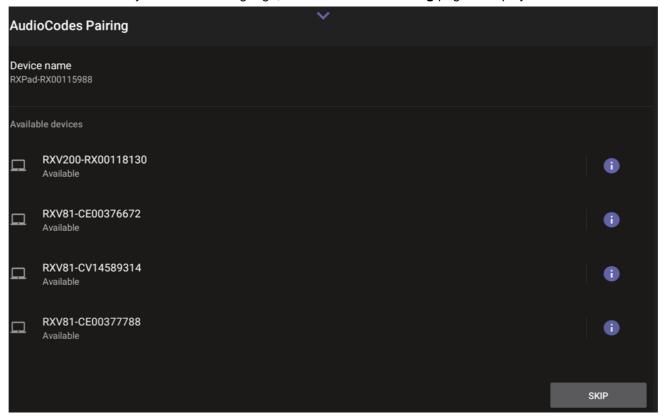


The MTRA prompts you to connect to an input device if there is not one already connected. An Input device can be an RX-PAD or a touch screen (or RCU in case it is part of the RXV81 bundle):

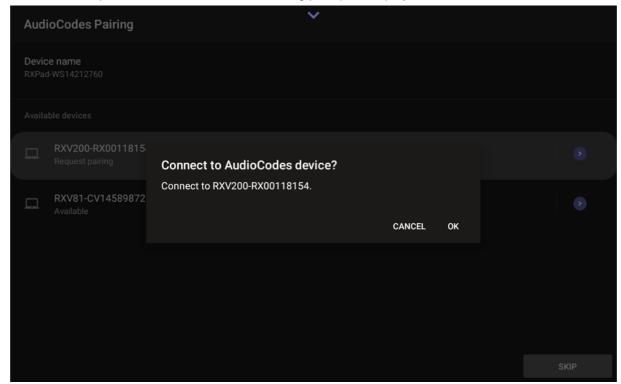




2. After you select the language, the **AudioCodes Pairing** page is displayed:

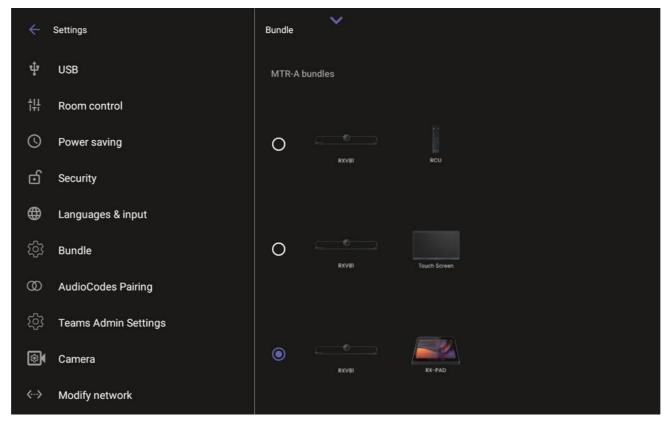


3. Tap the selected MTRA, the following prompt is displayed:

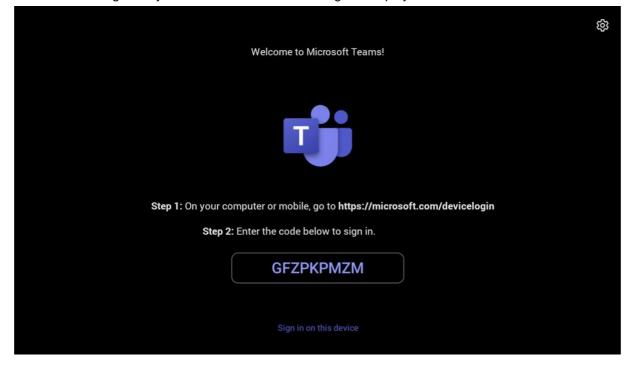


**4.** Tap **OK** to confirm: the RX-PAD finalizes the pairing process and assigns the appropriate bundle with the MTRA.

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



**6.** 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:



7. Sign in to your Microsoft account.

## 4.5.2 Pairing Devices

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.





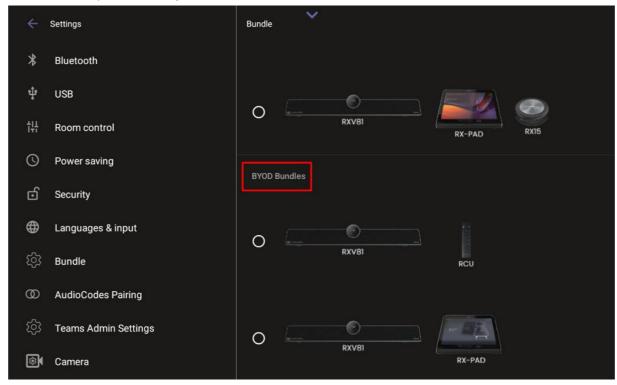
**Note:** Teams unpairing must occur prior to pairing with a new MTRA device.

- > To pair a device:
- 1. Navigate to **Settings**, and then tap **AudioCodes Pairing**.

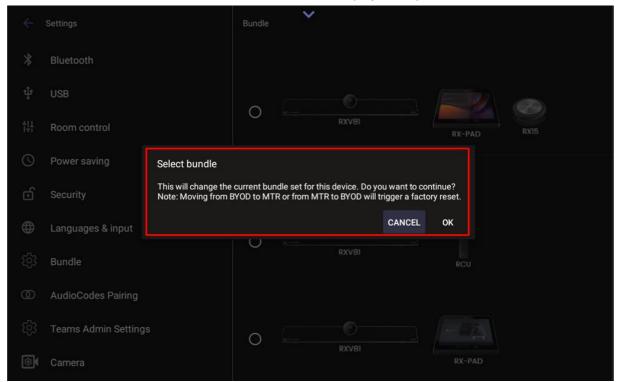
### 4.5.3 Modify RXV81 Connection to BYOD Bundles

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:



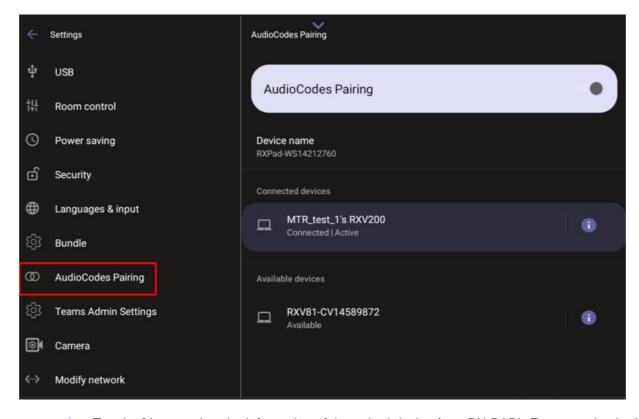
3. The **Select bundle** confirmation window is displayed. Tap **OK** to confirm.



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

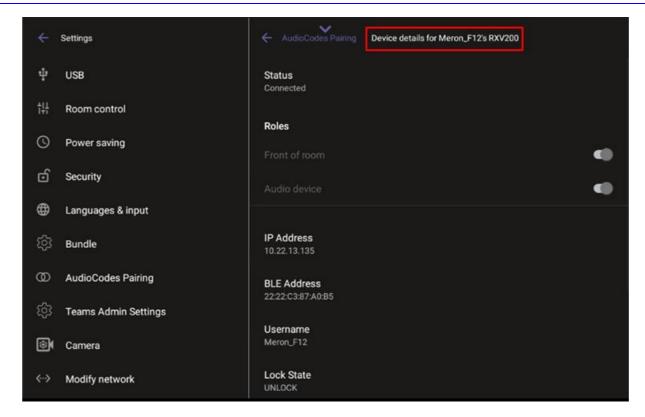


Important note: Changing this setup 'on the fly' triggers a factory reset on the MTRA.

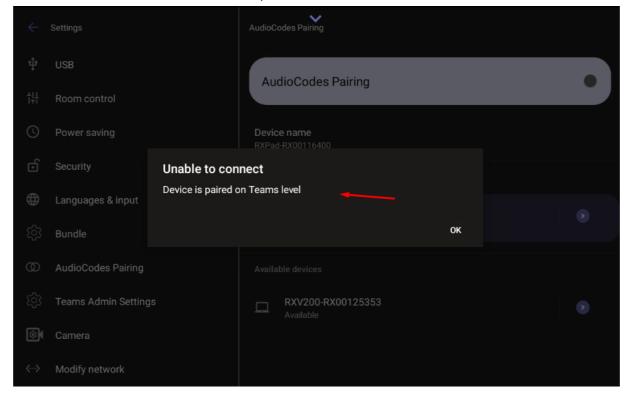


4. Tap the **i** icon to view the information of the paired device from RX-PAD). For example, the IP address, device model, MAC address:





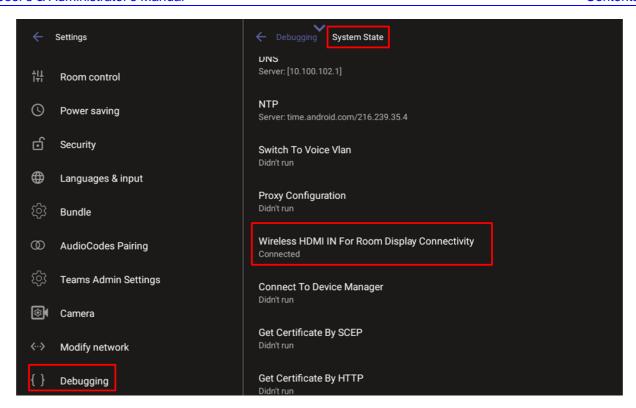
5. Navigate to **Teams Admin Settings** > **Devices** menu to break a currently paired set and pair a new MTRA. Admin must unpair the devices at the Teams level.



## 4.5.4 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:



## 4.6 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 below
- Create an exclusion group see below

## 4.7 Creating a Dynamic Group

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

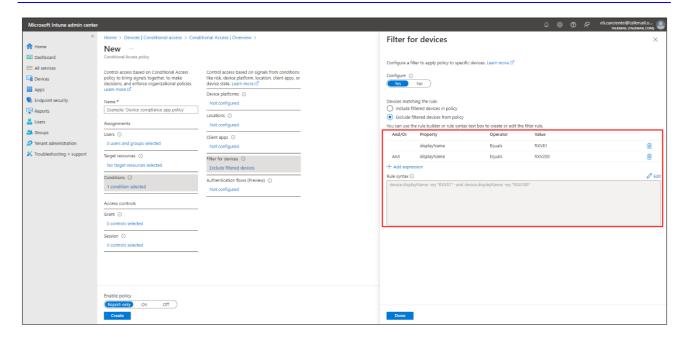
## 4.8 Creating an Exclusion Group

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).

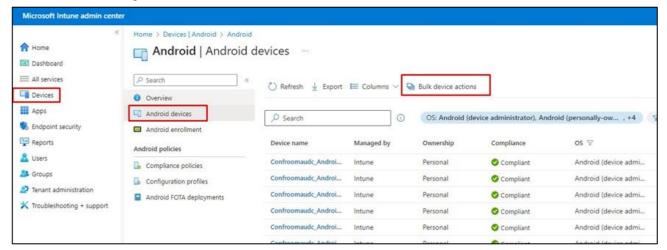




## 4.9 Removing Devices from Intune admin center

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

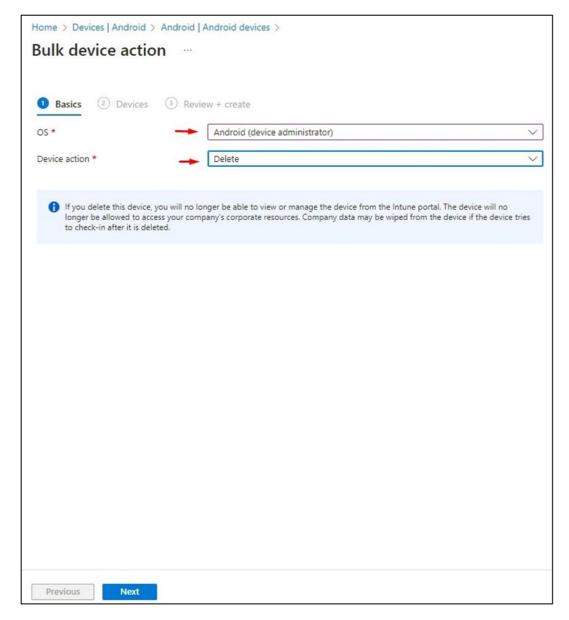




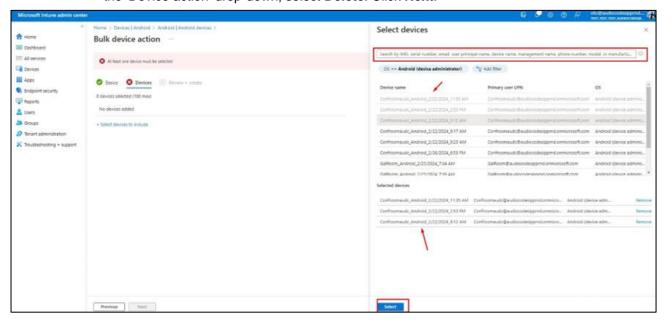
**Note:** The Intune admin center service is licensed according to the terms of individual licenses so not all network admins will be able to navigate to it. Check if the license you're using includes the service or not.

5. Click Bulk device actions.

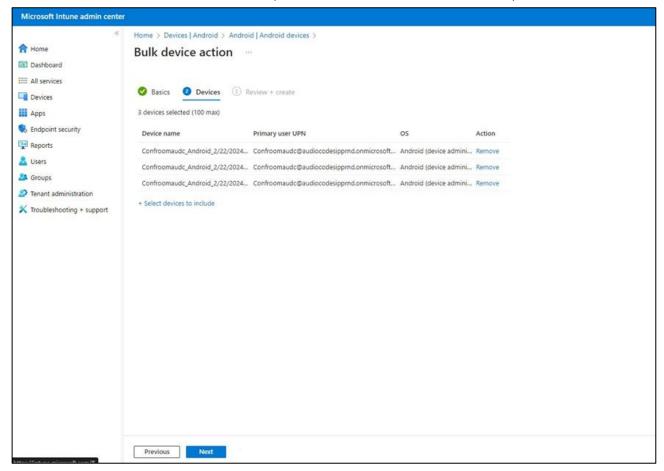




6. From the 'OS' drop-down under the **Basics** tab, select **Android (device administrator)**. From the 'Device action' drop-down, select **Delete**. Click **Next**.

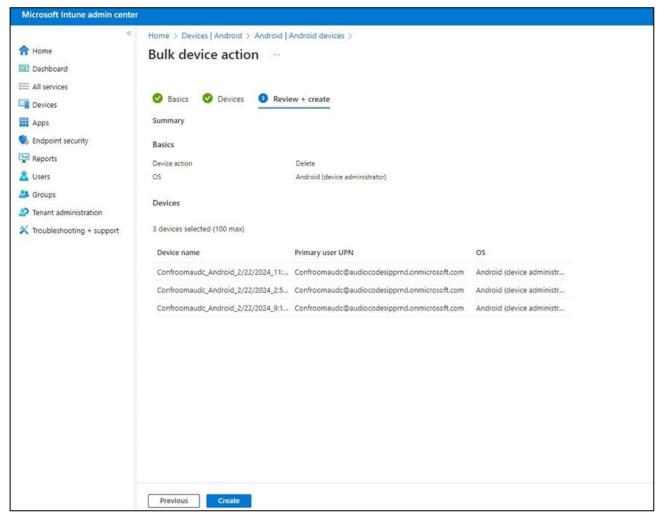


7. Select the devices to delete (i.e., to remove from Intune admin center), and then click **Select**.





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



9. 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.

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## 5 Viewing RXV81 Status LEDs

Use the following figure and table as reference to determine RXV81 status when viewing LEDs.



Table 5-1: Viewing RXV81 LEDs to Determine Status

•	Red / white / red & white
White on	Device is powered on, signed in to Teams
White flashing	Device is in booting phase
Red on	Device is in mute (highest priority state)
Red flashing	Network connectivity lost / Device is in upgrade mode / RCU connectivity lost
Red + white on	Device is powered on, network is connected, but not signed into Teams
•	Blue
Blue on	In a call (active call or meeting)
Blue flashing	Incoming call
$\circ$	Camera on/off
White on	Camera on
White off	Camera off

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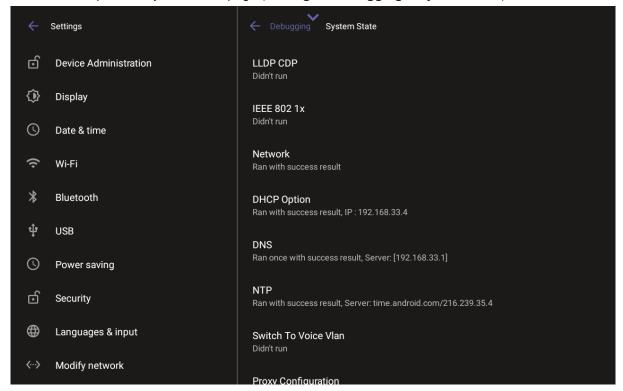


## 6 Monitoring Device Modules States

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*.

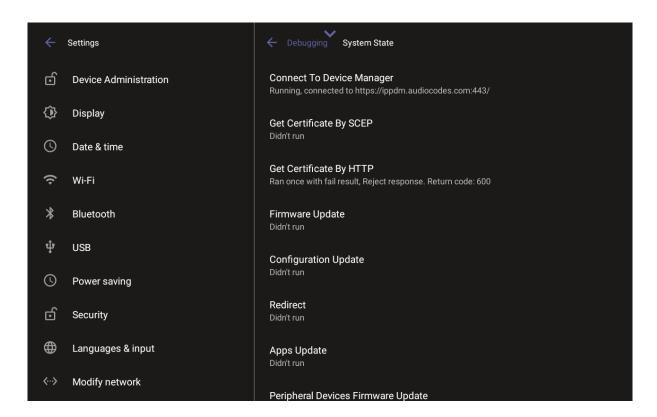
- To monitor the device's modules state:
- Open the System State page (Settings > Debugging > System State).





#### Note:

- Each state displays its operational result: Successful or Failed
- For some states, the reason of failure will be displayed as well.





#### Note:

- · Each state displays its operational result: Successful or Failed
- For some states, the reason of failure will be displayed as well.



## 7 Using RXV81 in Ad Hoc Peripheral Mode

In addition to standalone mode, RXV81 can be used in ad hoc peripheral mode. In this mode, you can connect RXV81 to a BYOD (Bring Your Own Device) (PC/laptop) running a UC client; the BYOD displays meeting video and content and meetings are controlled via the BYOD (join, accept, manage participants). Audio/video (camera ePTZ, mic mute) can be controlled via the UC client or the RC (camera on / off, mute, volume).

Supported RC actions that participants can perform during a video call / meeting when using the device with the ad hoc USB A/V peripheral include:

- Volume
- Mute
- Camera on/off

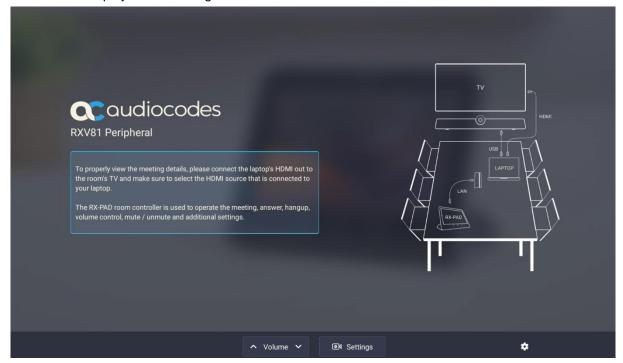


**Note:** See the RXV81 MTR on Android Video Collaboration Bar with RX-PAD or RCU Quick Guide for detailed information on cabling RXV81.

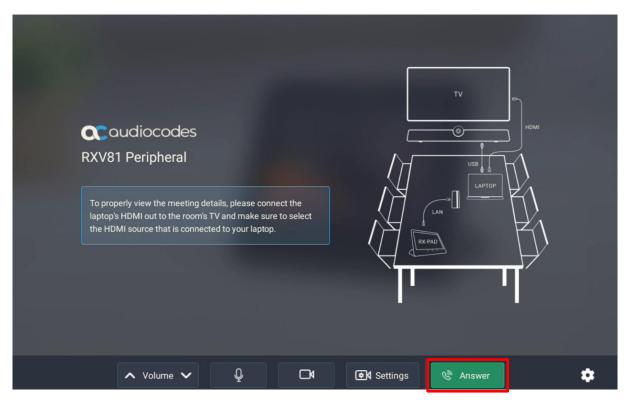
Ad hoc peripheral mode is a versatile feature designed to enhance RXV81 functionality. The mode enables seamless integration of RXV81 with a PC/laptop by utilizing RXV81's audio and camera capabilities as primary audio and camera sources for the PC/laptop.

#### To use RXV81 in ad hoc peripheral mode:

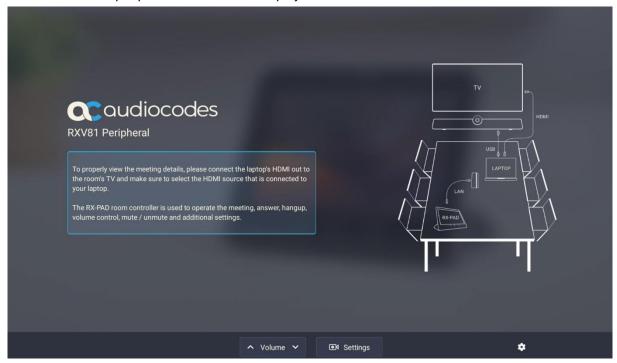
1. Connect the device's \$\frac{1}{2}\$ USB Type C port to a BYOD (Bring Your Own Device) (PC/laptop) running a UC client; the device automatically moves to ad hoc peripheral mode and RX-PAD displays the following:



2. When a call comes in, view on RX-PAD the incoming call's functions, for example, ANSWER, as shown in the figure below.



3. View peripheral ad hoc mode displayed on RXV81 as follows:



4. View ad hoc peripheral mode displayed on RXV81 bundled with the Remote Controller Unit (RCU) as shown in the figure below.





When the device is in ad hoc peripheral mode, it automatically detects the mode when the user connects a USB cable from their BYOD compute, and pops up this message to the user:

In addition to the USB cable already connected to your laptop, please connect your laptop to the TV using the HDMI cable to properly view meeting details and content sharing.

On your TV, make sure to select the HDMI source that is connected to your laptop.

Note that you can still use your RXV81 RC to increase or decrease volume, mute or unmute audio, and switch the camera on or off.

In peripheral mode, the BYOD displays meeting video and content. Meetings are controlled via the BYOD (join, accept, manage participants). Audio/video (camera ePTZ, mic mute) can be controlled via the UC client or the RC (camera on / off, mute, volume).



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## 8 Updating the RXV81 MTR Remotely

For instructions on how to update RXV81 Microsoft Teams Room remotely, see <a href="https://docs.microsoft.com/en-us/microsoftteams/devices/remote-update">https://docs.microsoft.com/en-us/microsoftteams/devices/remote-update</a>.



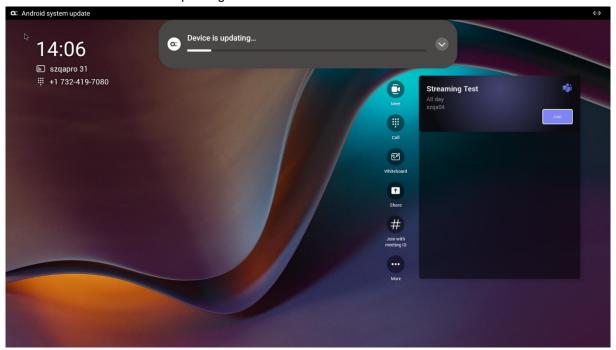
**Note:** Before an update is pushed to a device, the firmware detects whether the user is using the device or not. If they are, the user is notified and given an option to delay the update or apply it, nonetheless. The feature avoids disrupting users' ongoing activities on their devices, such as calls.

# 8.1 Updating RXV81 Audio and Camera Peripherals Firmware

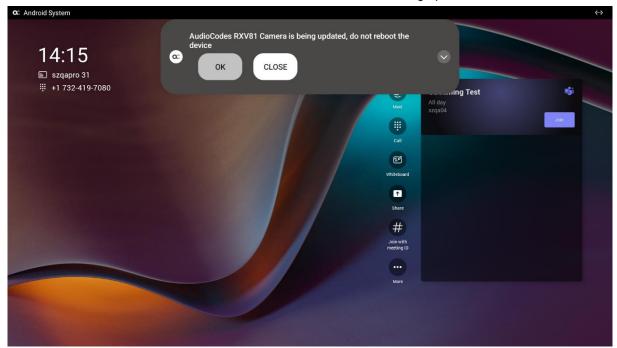
Updating RXV81 audio and camera peripherals firmware is a safe and streamlined process. Peripherals are updated at the same time as the RXV81 firmware update; audio and camera peripheral updates are integrated directly within the RXV81 firmware update process to ensure a safe overall update experience for the RXV81 device, prioritizing device integrity.

Over-the-air (OTA) firmware updates include 'Pre | Post Firmware Burn' scripts to check before audio / video (A/V) is updated. After an OTA update is downloaded but before it is burned, a PreFirmwareBurn script is executed. After the firmware is burned, a PostFirmwareBurn script is executed. Here's the user experience:

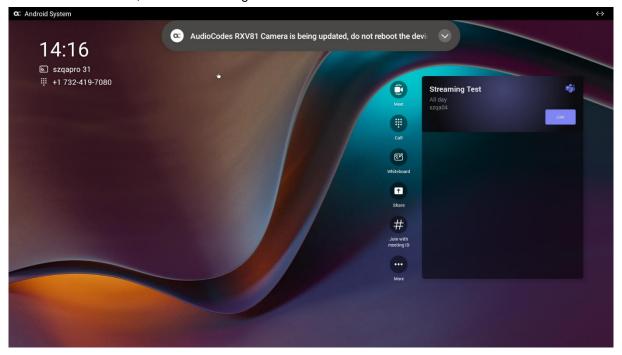
1. View 'Device is updating...'



2. View the notification 'AudioCodes RXV81 Camera is being updated, do not reboot the device'.

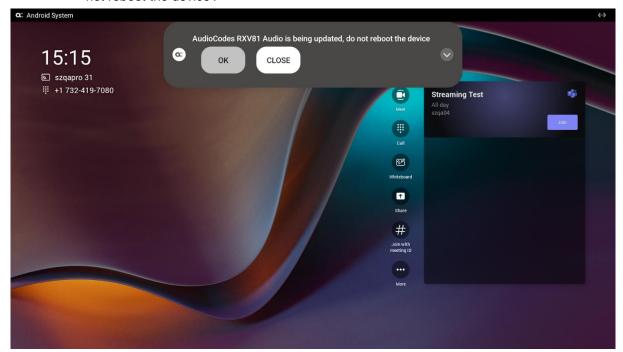


3. Click **OK**; view the following:

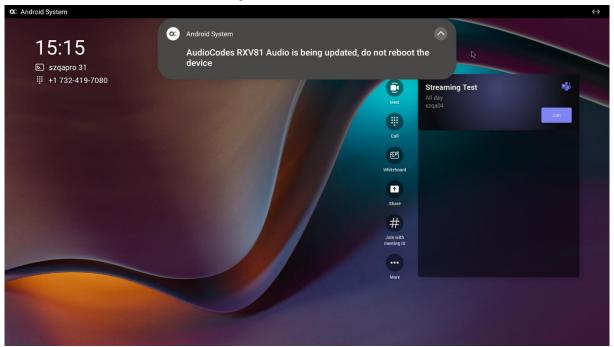




4. After the camera update, view the notification 'AudioCodes RXV81 Audio is being updated, do not reboot the device'.



5. Click **OK**; view the following:



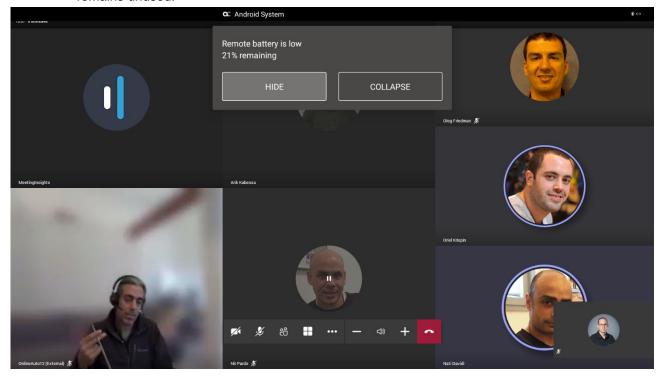
**6.** After the audio update, view a 'Restarting...' notification.

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## 9 Replacing RC Batteries

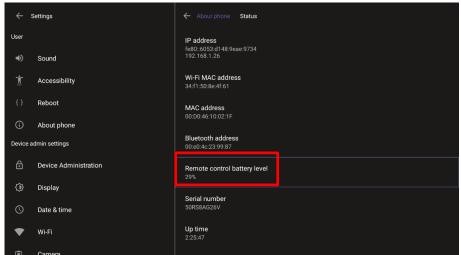
[Only applies to users who acquired the RC bundle] If the RC batteries run low, the RXV81 application notifies you about the issue. A notification is sent to the screen/TV as well as to AudioCodes' Device Manager if battery voltage level falls low, indicating what percentage level remains unused.



Select **HIDE** to conceal the notification.

## 9.1 Assessing RC Battery Level

[Only applies to users who acquired the RC bundle] You can determine the RXV81 remote controller's battery level through the Status screen (**About** > **Status**) using the setting **Remote control battery level**.



## 9.2 Restarting / Rebooting RXV81

RXV81 sometimes needs to be restarted / rebooted, for example, after inserting the Bluetooth dongle.

- To restart / reboot RXV81:
- Long-press the RC power on/off button for about five seconds (only applies to users with an RC)
  - -or-
- Long-press the RXV81 back button for ~5 seconds, then release it.

## 9.3 Powering Down/Up RXV81

RXV81 can be powered down/up.

- To power down RXV81:
- Long-press the RXV81 back button for 12 seconds; the device is powered down.
- To power up RXV81:
- Long-press the RXV81 back button for 12 seconds; the device is powered up.



## 10 RX-PAD Meeting Room Controller

#### Note:



- Only applies to users who acquire the RXV81 bundle TEAMS-RXV81-B10.
- Optionally replaces RXV81's RC for management and control functions.
- See the RX-PAD Meeting Room Controller Pairing Guide for instructions how to pair the controller with RXV81.

AudioCodes' RX-PAD is a center-of-room intelligent touch controller that provides access to the RXV-81 meeting room.



RX-PAD enables capabilities such as one-click collaboration initiation with an integrated calendar, content sharing and camera adjustments, and more.

Requiring only a PoE cable for quick installation, RX-PAD leverages plug-and-play simplicity to provide a familiar Microsoft Teams meeting experience.

See AudioCodes' website <a href="here">here</a> for more information about RX-PAD.

## 10.1 Using RX-PAD

Use the figure and the table following as a reference to using RX-PAD.



Table 10-1: Reference to Using RX-PAD

L-R	Description	
1	'Back' button; press to return to the screen previously accessed.	
2	Press to return to the home screen from any screen. Long-press to open the device's 'Settings' screen.	
3	Press to access 'Camera Settings'.	
4	Press to open administrator-related menus, including 'Settings'.	
5	One-click to join with an integrated calendar for quick and rapid collaboration initiation.	
6	Human proximity motion sensor concealed under the plastic that allows the user to hold their hand near the sensor location to 'wake up' the device while in screensaver mode, triggering automatic lighting to greet the user.	
7	<ul> <li>LED indications:</li> <li>If illuminated red (constantly, without flashing), it indicates 'No network'.</li> <li>Flashing red indicates a system alert, for example, when a user tries to charge via the device's USB port.</li> <li>Flashing yellow indicates that the device is in the process of a software upgrade.</li> </ul>	

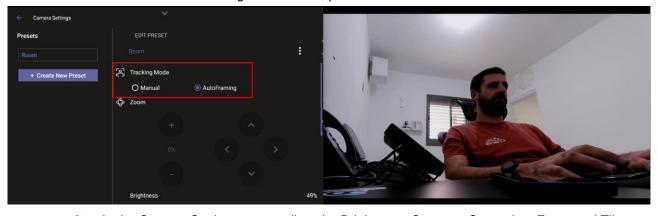
## 10.2 Using RX-PAD to Adjust RXV81 Camera Settings

RX-PAD can be used to control RXV81 camera settings.

- To adjust RXV81 camera settings:
- 1. In RX-PAD, pull down the notification bar and select the **Camera Settings** icon -OR- on the physical interface of the RX-PAD, tap the camera icon (labeled 3 in the preceding figure).



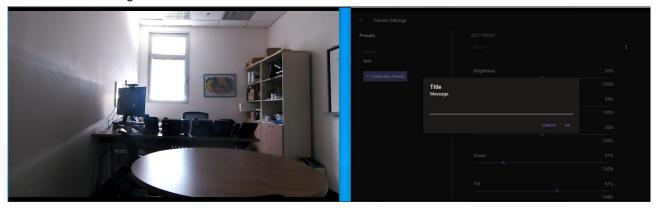
2. View the camera settings menu and a preview of the room in which RXV81 is located.



3. In the Camera Settings page, adjust the Brightness, Contrast, Saturation, Zoom and Tilt.



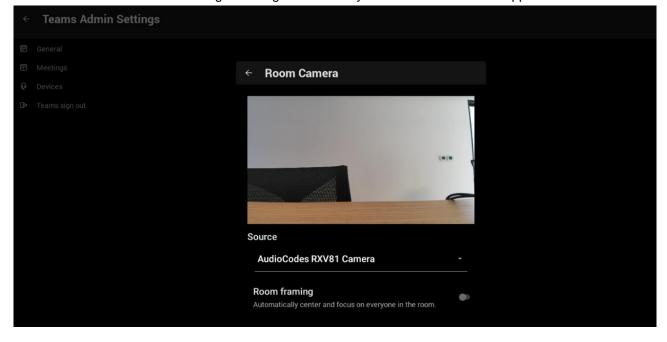
**4.** Optionally, save the current settings in the running preset, or save them in a separate preset using the **Create New Preset** button.



## 10.3 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.



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## 11 Remote Controller (RC)



**Note:** Only applies to users who acquire the RXV81 bundle **TEAMS-RXV81**. See <u>here</u> for bundle details.

The figure below shows AudioCodes' remote controller.



- The software on the remote controller is managed by RXV81.
- The remote controller leverages Bluetooth which enables full control and bi-directional communication (very much like touch control). See also Section 4.1.5.
- The keys on the remote controller (Mute, Teams) are illuminated.



Note: The remote controller flashes if the connection to RXV81 fails.

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## 12 Android-based Teams Devices Parameters

Listed here are the configuration file parameters currently supported by Android-based Teams devices. They're in AudioCodes' UC version format. The parameters are comprised of Microsoft configuration profile settings and AudioCodes' device-specific parameters.

- general/silent\_mode = 0 (default)/1
- general/power\_saving = 0 (default)/1
- phone\_lock/enabled = 0 (default)/1
- phone\_lock/timeout = 900 (default) (in units of seconds)
- phone lock/lock pin = 123456
- display/language = English (default)
- display/screensaver\_enabled = 0/1
- display/screensaver\_timeout = 1800 (seconds)
- display/backlight = 80 (0-100)
- display/high\_contrast = 0 (default)/1
- date\_time/timezone = +02:00
- date time/time dst = 0 (default) /1
- date\_time/time\_format = 12 (default) / 24
- network/dhcp\_enabled = 0/1
- network/ip\_address =
- network/subnet\_mask =
- network/default\_gateway =
- network/primary dns =
- network/pecondary\_dns =
- network/pc\_port = 0/1
- office\_hours/start = 08:00
- office\_hours/end = 17:00
- logging/enabled = 0/1
- logging/levels = Verbose, Debug, Info, Warn, Error, Assert, None
- admin/default\_password = 1234
- admin/ssh\_enabled=0/1 (default)
- security/SSLCertificateErrorsMode = IGNORE, NOTIFICATION, DISALLOW (default)
- security/ca\_certificate/[0-4]/uri uri to download costumer's root-ca
- provisioning/period/daily/time
- provisioning/period/hourly/hours\_interval
- provisioning/period/type = HOURLY, DAILY (default), WEEKLY, POWERUP, EVERY5MIN, EVERY15MIN
- provisioning/period/weekly/day
- provisioning/period/weekly/time
- provisioning/random\_provisioning\_time

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