Release Notes

*Room Experience (RX) Suite*

# RXV81 | RXV200 MTRs on Android
# RX-PAD Meeting Room Controller
# RX-PANEL Meeting Room Scheduler

## Version 2.4.121



**audiocodes**

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## Related Documentation

| Document Name |
| --- |
| RXV81 MTR on Android Video Collaboration Bar with RX-PAD or RCU Quick Guide |
| RXV200 MTR on Android Compute Unit Quick Installation Guide |
| Pairing RX-PAD with Microsoft Teams Room on Android |
| RX-PANEL Meeting Room Scheduler Quick Guide |
| One Voice Operations Center (OVOC) User's Manual |
| Device Manager Administrator's Manual |

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# 1    Introduction

## 1.1    RXV81

AudioCodes' RXV81 is a standalone Microsoft Teams Rooms (MTR) on Android™ 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 remote participants can see and hear everyone in the room and can also participate in full Teams video and content sharing sessions.

The 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, the 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, the RXV81 can be used in ad hoc peripheral mode. In this mode, customers connect the 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 a robust bracket mount and minimal cable connections.

The 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.

### 1.1.1    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] Unique Bluetooth Remote Control (RC)**.

    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 (12M Storage)**

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

- **Easy to Manage from Anywhere**.

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

■ **Peripheral Mode**.

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

## 1.1.2    Benefits

■ Intuitive meeting experiences with one click to join using the Microsoft Teams Rooms on Android application.

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

■ Superior audio via a full-room pickup with no need for an additional external USB microphone or speaker.

■ Effortlessly manage meetings using the dedicated Bluetooth remote control or RX-PAD Meeting Room Controller.

■ Managed using AudioCodes' One Voice Operations Center (OVOC) Device Manager or Microsoft's Teams admin center (TAC).

## 1.1.3    Hardware Features

■ The 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: 120⁰ / H: 110⁰ / V: 75⁰

■ Adjustable camera position with ePTZ support - 5x zoom - digital 5x zoom in. Manually vertically (up/down) adjustable ±15⁰.

■ 6-element microphone array with 4.5 m pickup range for mid-size rooms and a 10W speaker for superb sound

■ Stylish design and finish.

■ Built-in dual band Wi-Fi and Bluetooth.

■ High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR).

## 1.1.4    Bundles

The RXV81 is available in two bundles.

**Table 1-1: RXV81 Bundles**

| Name of Bundle | Details |
|---|---|
| **TEAMS-RXV81** | ▪ Managers offices<br>▪ RXV81 main unit<br>▪ Smart BT Remote Controller |
| **TEAMS-RXV81-B10** | ▪ Shared rooms<br>▪ 5-6 participants<br>▪ RX-PAD Meeting Room Controller |

### 1.1.5    Specifications

The following table shows the RXV81 specifications.

**Table 1-2: Specifications**

| Feature | Details |
|---|---|
| **Video capabilities** | - Ultra HD 4k image sensor<br>- Super-wide angle horizontal field of view: 110°<br>- Lens: Fixed focus<br>- ePTZ capable, digital 5x zoom in<br>- Output resolution: 1080p<br>- Frame rate: 30 fps<br>- Manually adjustable, vertically (up/down) ±15º<br>- High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR). |
| **Audio** | - Full duplex, noise suppression, acoustic Echo Cancellation, voice separation<br>- 6x beamforming microphone array<br>- Voice pickup range: 4.5m (15ft)<br>- 10W speaker |
| **Device Interfaces** | - HDMI Output to TV<br>- Power/reset button<br>- USB 3.0 Type A (host) marked 1 to allow touch LCD or connectivity to wireless KB via BT USB dongle<br>- Ethernet: 10/100 Mbps (RJ-45) network interface<br>- USB2.0 Type-C (device) marked 2 to connect to PC/MAC BYOD device (peripheral mode)<br>- 3 status LEDs indicating camera on/off, mute on, call state, device health<br>- Wi-Fi (dual band support)<br>- Bluetooth 5.0<br>- 12V/3A DC power input<br>- Bluetooth managed remote controller |
| **Network Provisioning** | - TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)<br>- Layer 3 TOS and DSCP RTCP support: (RFC 1889)<br>- IP address configuration: TCP/IP (IPv4), DHCP/static IP Time and date synchronization: SNTP<br>- QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889) |
| **OS** | - Android 12 |
| **Security** | - Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256<br>- Network Access Control: IEEE 802.1x<br>- Built-in certificate |
| **Management** | - AudioCodes Device Manager, a plugin of AudioCodes One Voice Operations Center (OVOC) |
| **Microsoft Teams Features (Android MTR)** | ✓ Calendar integration (with meeting preview) and one click to join Teams meetings<br>✓ Meet now option<br>✓ Simple sign-in interface from browser or smartphone with a code |

| Feature | Details |
|---|---|
|  | ✓ 'Direct guest join' to allow joining a third-party meeting<br>✓ 'Cast info' from mobile to the RXV81 screen over Bluetooth<br>✓ 'Room remote' using Teams mobile app allowing to control the RXV81<br>✓ Remote sign-out from Microsoft Teams admin center (TAC).<br>✓ Hide names and meeting titles for individual devices<br>✓ Meeting stage<br>✓ Multi-spotlight<br>✓ Docked meeting controls<br>✓ Reactions<br>✓ Control camera/mic for attendees<br>✓ Live Captions in regular one-on-one calls and in Teams meetings<br>✓ Whiteboard support when signed in with personal account (short term roadmap for whiteboard support with room account)<br>✓ Multi-cloud sign-in support<br>✓ Remote provisioning and sign-in from TAC |
| **RXV81 Device Feature Set** | ▪ Camera settings with different privileges for user and Admin<br>▪ In idle (Admin) and during a call/meeting (all users), long-pressing the camera button on the RC allows:<br>  ✓ Defining/editing a new preset<br>  ✓ Moving to different presets<br>  ✓ Changing all settings options<br>▪ Video quality: Resolution of 1080p on the decoder side and 720p on the encoding side<br>▪ RXV81 integration with AudioCodes OVOC-DM<br>▪ RXV81 Alerts to AudioCodes OVOC-DM:<br>  ✓ Notification sent to screen/TV and to Device Manager if Remote Control is disconnected or if it's malfunctioning<br>  ✓ Notification sent to screen/TV and to Device Manager if Remote Control battery voltage level falls low, indicating what percentage level remains unused<br>  ✓ Remote Control flashes if the connection to the RXV81 fails.<br>▪ Camera frequency set per power supply:<br>  ✓ 110V – 60Hz<br>  ✓ 220V – 50Hz<br>▪ Shortcut keys for administrators to manually perform recovery operations<br>▪ Ad-Hoc Peripheral Mode allows connecting the RXV81 via USB to the PC as a peripheral device. |

## 1.2    RXV200

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

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

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

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

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

See also AudioCodes website here for additional information.

### 1.2.1 Highlights

RXV200 feature highlights are:

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

### 1.2.2 Benefits

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

### 1.2.3 Bundles

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

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

The RXV200 is available in three main bundles.

**Table 1-3: RXV200 Bundles**

| Name of Bundle | Details | Peripherals |
|---|---|---|
| RXV200-B05 | ▪ Connects to an existing audio-video conference system; enables the integration of existing conference room AV systems with Microsoft Teams by leveraging the functionality of RX-PAD Room Controller<br>▪ Any room size<br>▪ Any number of users | - |

| Name of Bundle | Details | Peripherals |
|---|---|---|
| RXV200-B20 | <ul><li>With its HD wide-angle camera and table-mounted speaker, this bundle is ideal for small rooms of up to 10 users</li><li>RX-PAD Room Controller</li><li>RXVCam50M (4K Camera, x10 digital zoom, Auto Framing, 100º field of view)</li><li>RX15 (2.5m pick-up radius)</li><li>See schematic diagram below</li></ul> |  |
| RXV200-B40 | <ul><li>With its HD wide-angle camera and a powerful Audio Bar with two satellite microphones, this bundle is targeted at large rooms of up to 16 users</li><li>RX-PAD Room Controller</li><li>RXVCam50M (4K Camera, x10 digital zoom, Auto Framing, 100º field of view)</li><li>RX40 audio bar (with 2 satellite mics covering a pickup radius of up to 8m pickup)</li><li>See schematic diagram below</li></ul> |  |

### 1.2.3.1 RXV200-B40 Bundle

The figure below illustrates the RXV200-B40 bundle.

**Figure 1-1: RXV200-B40**
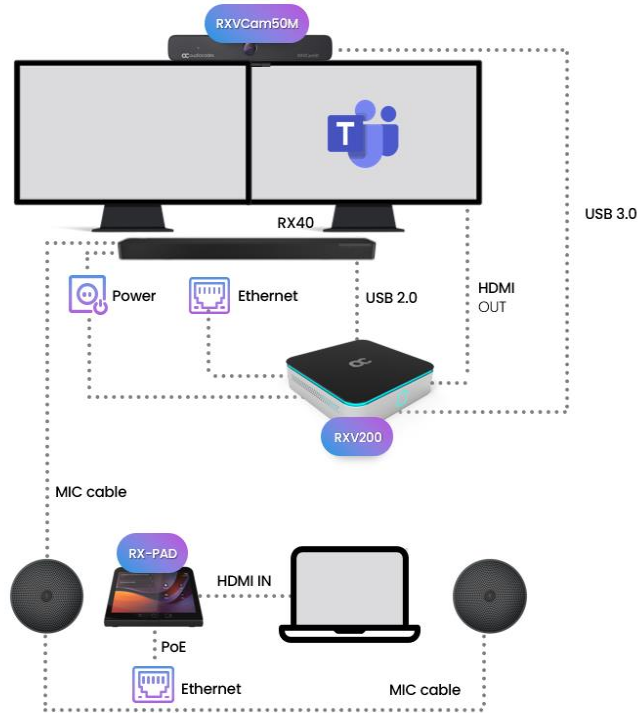


### 1.2.3.2 RXV200-B20 Bundle

The figure below illustrates the RXV200-B20 bundle.

**Figure 1-2: RXV200-B20**
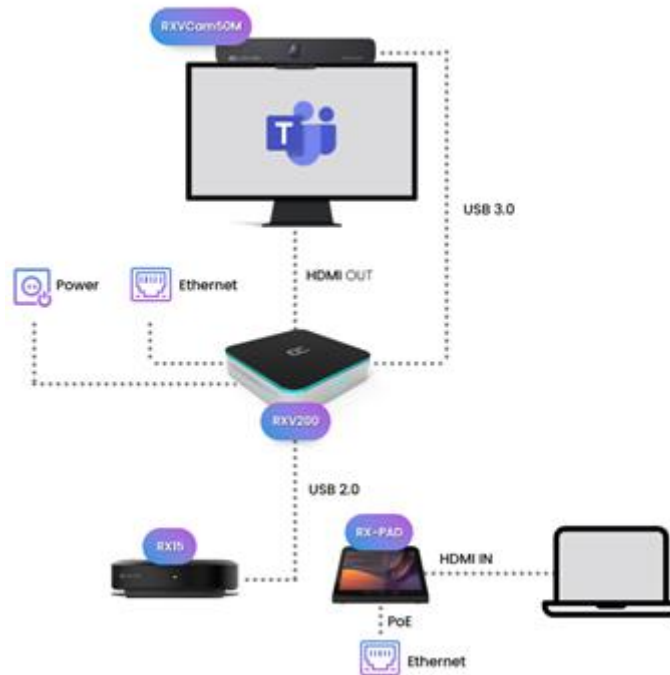
### 1.2.4 Hardware

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

- HDMI In enables participants to share their desktop during a meeting via a simple cable connection
- 1x USB C and 2x USB A to connect camera and audio peripherals

### 1.2.5 Management

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

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

### 1.2.6 Specifications

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

- Multiple cameras
  - Modular design allows connecting any current and future peripherals
  - Superb video quality provided by AudioCodes's RXVCam50M camera (HD, 4K, auto framing, EPTZ)
- Dual screen support
- Any sort of audio
  - Hear and be heard with crystal-clear sound using the RX40 sound bar or RX15 speakerphone
- Advanced AI capabilities
- Fully controllable by RX-PAD center-of-room intelligent touch controller
- RX-PAD includes proximity sensor for activating the system and welcoming users
- HDMI In enables participants to share their desktop content during a meeting via a simple cable connection
- HDMI Out CEC (Consumer Electronics Control) One-Touch-Play

The table below shows RXV200 specifications.

**Table 1-4: RXV200 Specifications**

| Feature | Description |
|---|---|
| Camera inputs | ▪ 2 X 4K simultaneous camera inputs |
| HDMI Outputs | ▪ 2 X HDMI 1.4 Output to external screens |
| HDMI Input type | ▪ HDMI 2.0 In (including audio) |
| Network provisioning | • TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)<br>• Layer 3 TOS and DSCP RTCP support: (RFC 1889)<br>• IP address configuration: TCP/IP (IPv4), DHCP/static IP; Time and date synchronization: SNTP |

| Feature | Description |
|---|---|
| | ▪ QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889) |
| Performance | ▪ PROCESSOR<br>▪ Snapdragon™ QCS8250<br>▪ MEMORY<br>▪ LPDDR5, 8G<br>▪ STORAGE<br>▪ UFS3.1, 128G<br>▪ GRAPHICS<br>▪ Adreno™ 650 |
| Device interfaces | ▪ Ethernet: 10/100/1000 Mbps (RJ-45) network interface<br>▪ Wi-Fi (dual band support)<br>▪ Support 802.11 a/b/g/n/ac/ax<br>▪ Bluetooth 5.1<br>▪ Proximity join and casting via Bluetooth<br>▪ 3 x USB interfaces – 2 USB3 Type A, 1 USB-C<br>▪ 2 x HDMI Out interfaces<br>▪ 1 x HDMI In<br>▪ 12V/3A DC power input |
| Wi-Fi type | ▪ Dual band Wi-Fi |
| USB port types | ▪ One USBC connector and two USBA connectors for audio peripherals |
| Android version | ▪ Android 10 (Android 13 in H2/2023) |
| Chipset type | ▪ Latest chipset from QUALCOMM for video/conf applications |
| OS | ▪ Android 12 |
| UC platform support highlights | Microsoft Teams Room for Android application with:<br>• Intuitive meeting experience with calendar integration and click-to-join or proximity-join experience<br>▪ Ad hoc USB A/V peripheral for any UC client |
| Security | • Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256 Network Access Control: IEEE 802.1x<br>• Built-in certificate<br>▪ Kensington Lock for security measures |
| Design | ▪ DIMENSIONS (W X D X H) 170 x 170 x 41.3 mm<br>▪ WEIGHT 0.75 kg |
| Manageability | ▪ AudioCodes One Voice Operation Center (OVOC) |

### 1.2.6.1    RX15

Following are the RX15 specifications.

**Table 1-5: RX15 Specifications**

| Feature | Description |
|---------|-------------|
| Connectivity | |
| USB | USB 2.0 |
| Microphone | |
| Pickup distance | 2.5 meters radius |
| Microphone | 6 element microphone array |
| Frequency | 150Hz~8kHz |
| Sensitivity | 38dBV |
| Signal-to-noise ratio | 65dB |
| Speaker | |
| Maximum sound pressure level | 80dB SPL at 1m |
| Distortion | ≦4% @150Hz~16kHz |
| Signal-to-noise ratio | ≥75dB at 1m |
| Frequency response | 150Hz~16kHz |
| Interfaces | |
| Buttons | 6 (Power, Answer/Hang Up, Mute, Bluetooth, Volume +, Volume -) |
| Indicator light | Power, Volume, Bluetooth, Mute, Answer/Hang Up |
| Other parameters | |
| Device weight | 395gr |
| Dimensions | 120mm x 35.2mm |
| Storage temperature | -20°C to 65°C |

### 1.2.6.2  RXVCAM50M

Following are the RXVCAM50M specifications.

| Feature | Description |
| --- | --- |
| Camera | |
| Image Sensor | 1/2.5 inch high quality 4K CMOS sensor |
| Effective Pixels | 8.28MP, 16:9 |
| Video Output | USB3.0, Type B. |
| Video Resolution | 3840×2160 @30fps, 1920×1080P @30fps/25fps, 1280×720P@ 30fps/25fps Sub stream: 1280×720P @30fps/25fps, 640×480P @30fps/25fps, 320×172P @30fps/25fps |
| Angle of View | 102°(D) / 100°(H) / 64°(V) |
| Focal Length | f=2.26mm |
| Aperture | F1.8 |
| Minimum Illumination | 0.1Lux (F1.8, AGC ON) |
| Digital Zoom | 10x |
| DNR | 2D & 3D DNR |
| PTZ Control | Supports ePTZ |
| Input Voltage | DC 5V |
| Input Current | 1A (Max) |
| Power Consumption | 5W (Max) |
| Store Temperature | -10°C~+60°C |
| Store Humidity | 20%~90% |
| Working Temperature | -10C°~+50°C |
| Working Humidity | 20%~80% |
| Dimensions | 220mm x 93.75mm x 56.5mm |

## 1.3    RX-PAD

AudioCodes' RX-PAD Meeting Room Controller is a center-of-room intelligent touch controller that provides quick and complete access to AudioCodes meeting room solutions. It enables capabilities such as one-click collaboration initiation with an integrated calendar, simple content sharing and camera adjustments, and much more, all while retaining a modest footprint on the conference room table.

RX-PAD leverages plug-and-play simplicity to provide a productive and familiar Microsoft Teams meeting experience, requiring only a PoE cable for quick installation. This cable is inserted into a cleverly designed compartment that prevents it from being accidentally disconnected by a meeting participant.

RX-PAD available as a bundle with:

■  RXV81 MTR on Android Video Collaboration Bar
■  RXV200 MTR on Android Compute

### 1.3.1    Highlights

For more information, see here.

### 1.3.2    Specifications

| Feature | Specification |
|---|---|
| Display | Landscape Touch 8" LCD (1280 x 720 resolution) |
| Device interfaces | • Ethernet: 10/100/1000 Mbps (RJ-45) network interface (PoE)<br>• Dual-band Wi-Fi and Bluetooth<br>• 12V/2A DC power input<br>• Proximity Sensor (see previous table for description)<br>• HDMI In (enables participants to share their desktop content during a meeting via a simple cable connection) |
| Network provisioning | • TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)<br>• Layer 3 TOS and DSCP RTCP support: (RFC 1889)<br>• IP address configuration: TCP/IP (Ipv4), DHCP/static IP Time and date synchronization: SNTP |
| OS | Android 12 |
| UC platform support highlights | • Intuitive meeting experience with calendar integration and click-to-join meetings or proximity join experience<br>• Easy-to-use touch controller for meeting management |

## 1.4 RX-PANEL

The AudioCodes PANEL-RX Meeting Room Scheduler is a purpose-built Microsoft Teams Panel with an intuitive touchscreen display. Neatly installed right at the entrance to the meeting room, the RX-PANEL's brightly colored status LED enables users to quickly see the meeting room's availability from a distance. Users can also view the meeting details on its sleek and clear LCD screen and reserve a meeting room on the spot.

### 1.4.1 Highlights

RX-PANEL supports the following features:

- Utilizes plug-and-play simplicity to boost the meeting room experience with a dedicated panel showing the meeting details and room availability.
- Easily reserve the room for ad-hoc meetings.
- Unique, clearly-visible status LED indicating meeting space availability.
- Glass and wall mountable for a professional and spotless appearance.
- Dedicated special touch buttons (Home and Back).
- High-resolution 8-inch touchscreen.
- Runs Android 12 for improved security.
- Can be managed by AudioCodes Device Manager.

Part number: TEAMS-RX-PANEL– MSRP

### 1.4.2 Specifications

The following table shows the RX-PANEL specifications.

| Feature | Description |
|---|---|
| LCD | • High resolution touch LCD, anti fingerprints, 1280 x 800 |
| Built-in keys | • Dedicated touch keys – Home and Back |
| Power | • PoE Class 3 or external power supply |
| Connectivity | • Dual Band Wi-Fi<br>• Bluetooth 5.0<br>• PoE Class 3<br>• Ethernet |
| LED | • RGB Status LED |
| Dimensions (W x H x D mm) | 223.4 x 155.9 x 24.4 |
| Weight (kg) | 0.8 |
| Mounting | Wall and glass mount (the glass option should be ordered separately) |
| Certifications | Microsoft Teams Rooms – coming soon Q3 2003 |
| Compatibility | Works with Android and Windows based meeting room devices |

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# 2 Version 2.4.121

## 2.1 What's New

> **Note:**
> - Version 2.4.121 of RXV81 (bundled with RX-PAD) and RXV200 (bundled with RX-PAD) includes Microsoft Teams app 2.2.0 version 2024042606. For a list of new features / resolved limitations in the app, go here.
> - RX-PANEL is not part of this version release. Please continue using version 2.4.55.
> - To update to version 2.4.121, RXV81 must have version 1.18.361 or later. Devices with versions later than 1.18.361 can use 1.19.341 as an intermediate version and then proceed to 2.4.

> **Note:**
> - MTRA = Microsoft Teams Room for Android
> - MTRA in this document refers to both RXV81 and RXV200

- ■ **New Microsoft apps:**
  - Microsoft Teams app MTRA 2.2.0 (2024042606). For more information, see here.
  - Admin Agent 703
  - Microsoft Intune Company Portal 5.0.6152 (same as previous release)
- ■ New support has been added for **HDMI Out CEC (Consumer Electronics Control) One-Touch-Play when two TV screens are connected to RXV200**.
- ■ New capability has been added for admin to **enable or disable HDMI Out CEC One-Touch-Play via Device Settings**.
  Default: Enabled.
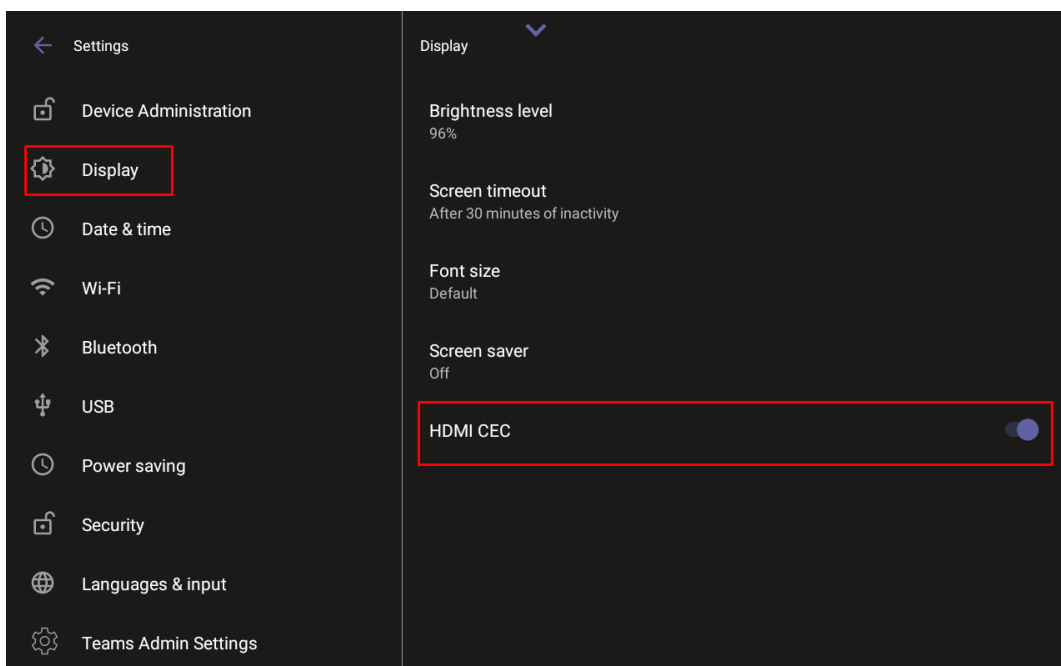
■ When sharing content via RX-PAD HDMI In, if there's a delay (typically when connecting for the first time following several hours of inactivity), a new notification is displayed informing the user that the screen will be shared shortly. In the next release, this process will be handled in the background immediately after RX-PAD pairs with the MTRA.
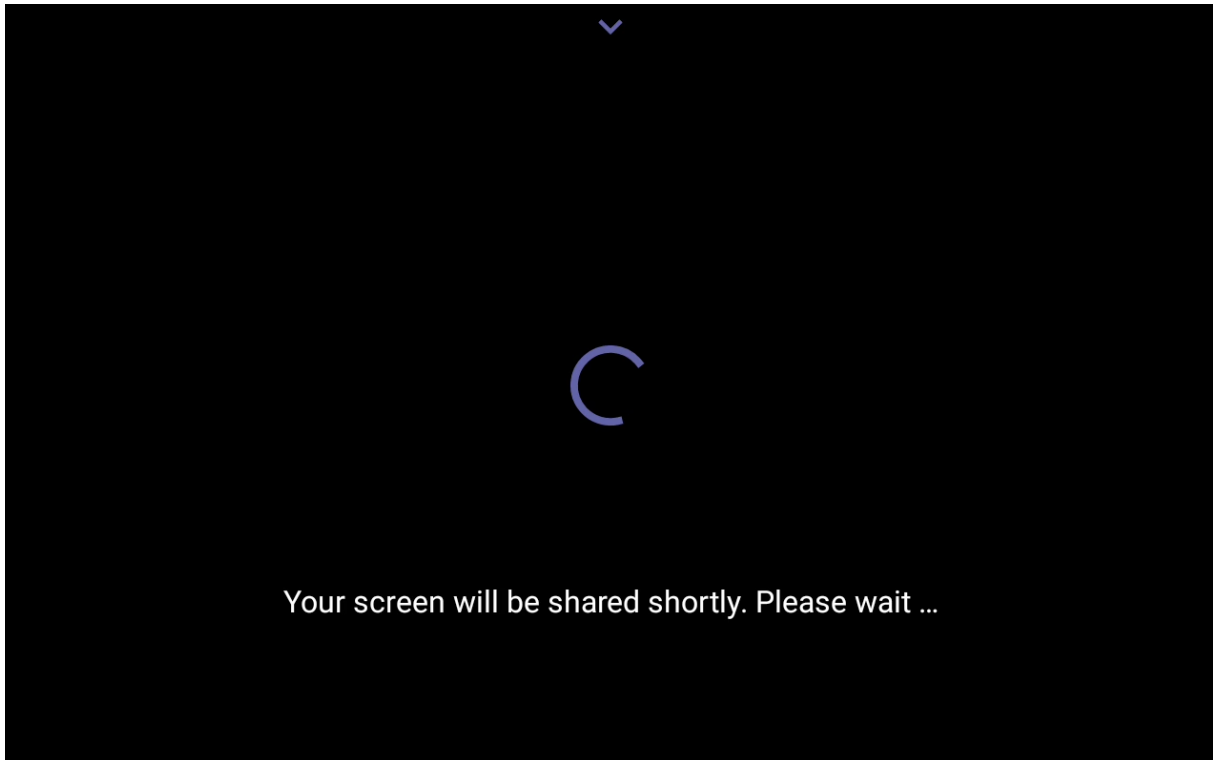
## 2.1.1    Resolved Limitations in Version 2.4.121

### 2.1.1.1    Device

**Table 2-1: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-12471 | [RXV200] Some TV screens - connected to RXV200 HDMI Out - flash if the screen is reconnected while RXV200 is already booted up. |
| IPPAN-12833 | Occasionally, screen sharing does not function when connecting a PC directly to RXV200. A reboot resolves this issue. We are working on a fix for the next release. |
| IPPAN-12975 | [RXV200] Shutting down the TV screen (applies to some but not all TV screens) causes RXV200 to enter sleep mode without syncing RX-PAD (which has the human movement sensor), and then when the TV is turned on again or when someone enters the room, RXV200 does not turn on. |
| IPPAN-11824 | The MTRA exhibits lower resolution video quality when participating in ZOOM meetings via Direct Join. |
| IPPAN-12786 | [RXV81 as Ad-Hoc Peripheral/Full Peripheral] The 'Settings' icon of RX-PAD is displayed incompletely but can be used. |
| IPPAN-13147 | Rebooting the device immediately (no more than 30 seconds) after a firmware upgrade, might result in a bad boot (recovery mode). |
| IPPAN-13117 IPPAN-13128 | On rare occasions, connecting \| reconnecting a PC via the RX-PAD HDMI In port might lead to a Kernel crash and to rebooting the MTRA device (RXV81 \| RXV200). |
| IPPAN-12794 | [RXV200] On rare occasions, the RXV200 HDMI ports freeze during idle, requiring rebooting the device. |
| IPPAN-13162 | [RXV200] For some TV screens, shutting down one TV might cause the other TV to go off due to a problem with the CEC One-Touch Play mechanism. |
| IPPAN-12906 | [RXV200] Connecting a PC indirectly to RXV200 HDMI In (via HDMI switcher) results in no audio heard locally and remotely. |
| IPPAN-12926 | [RXV200] It takes excessive time (several seconds) to stop content sharing after disconnecting the HDMI In cable from RXV200. |
| IPPAN-13202 | [RXV200] HDMI In via RX-PAD does not work when using two TV screens. |
| IPPAN-13181 | [RXV200]  On rare occasions, when two TV screens are connected to RXV200 HDMI Out, turning off one of the screens results in RXV200 rebooting. |
| IPPAN-13180 | [RXV200] Sharing content via RXV200 HDMI In might not function if there was content sharing via RX-PAD before this action. |
| IPPAN-13187 | [MTRA + RX-PAD] Volume mismatch between 'Device Settings > Sound' and the Teams app setting 'Audio Volume'. |
| IPPAN-13069 | [RX-PAD + RXV200] An unnecessary user named 'R' appears on the screen after unplugging the PC from RX-PAD HDMI In. |
| IPPAN-13002 | [RXV81 + RX-PAD] When using RX-PAD HDMI In for screen sharing, some performance issues occur manifesting in a slow/sluggish screen share. |
| IPPAN-12790 | [RX-PAD] Sometimes, the device is set to power saving mode during work hours. |

## 2.1.1.2   Teams Application

**Table 2-2: Resolved Teams Limitations**

| Incident | Description |
|----------|-------------|
| IPPAN-12541 | Inviting a PSTN number during a Teams meeting via the RX-PAD console might cause a 'Teams keeps stopping' message. This issue is already solved and will be part of the next Teams app version 2.2.0. |

## 2.1.2    Known Limitations in Version 2.4.121

### 2.1.2.1    Device

**Table 2-3: Known Device Limitations in Version 2.4.121**

| Incident | Description |
|---|---|
| IPPAN-9492 | [RXV200] When both HDMI Out ports are connected, the touch screen functions only on the TV connected to HDMI2. |
| IPPAN-11662 | [RXV200] If the TV screen that is connected to the HDMI 1 port is linked to the RXV200 *after* the device has booted, a flickering display occurs when accessing the Camera Settings page.<br><br>For optimal performance, make sure the TV screen connected to the HDMI 1 port is linked to the RXV200 *before* booting up the device. |
| IPPAN-12795 | HDMI Out cannot be used to play audio. Audio must be played via the USB speakers. |

### 2.1.2.2    Teams Application

Here are the known Teams application limitations in Version 2.4.121.

**Table 2-4: Known Teams Application Limitations in Version 2.4.121**

| Incident | Description |
|---|---|
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-10643 | [RX-PAD] There's a delay on RX-PAD when you answer a call. It's immediately displayed on the monitor but on RX-PAD the answering and call menus are still displayed after two to four seconds. |
| IPPAN-12728 | On some occasions, connecting two TV screens to RXV200 resulted in the Teams app getting stuck on 'Verifying a few things...' when first signing in. To work around this limitation, a single TV screen can be used during the sign-in. |
| IPPAN-12738 | On rare occasions, the same screen displayed on HDMI1 and HDMI2 results in no secondary screen. |

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# 3      Previous Releases

## 3.1      Version 2.4.55

### 3.1.1      What's New

> **Note:**
> - Version 2.4.55 of RXV81 (bundled with RX-PAD) and RXV200 (bundled with RX-PAD) includes Microsoft Teams app 2.1.2 version 2024032804. For a list of new features / resolved limitations in the app, go here.
> - Version 2.4.55 of RX-PANEL includes Microsoft Teams app 2024010401 (U3A1). For a list of new features / resolved limitations in the app, go here.
> - To update to version 2.4.55, RXV81 must have version 1.18.361 or later. Devices with versions older than 1.18.361 can use 1.19.341 as an intermediate version and then proceed to 2.4.55.

> **Note:**
> - MTRA = Microsoft Teams Room for Android
> - MTRA in this document refers to both RXV81 and RXV200

- ◼ **New Microsoft apps:**
  - Microsoft Teams app MTRA 2.1.2 (2024032804). For more information, see here.
  - RX-PANEL Teams app U3A1 2024010401. For more information, see here.
  - Admin Agent 703
  - Microsoft Intune Company Portal 5.0.5484 (same as previous release)

- ◼ **RXV81 | RXV200 introduce a new capability allowing users to share their PC screen via the RX-PAD HDMI In port**.
  Cableless approach between RX-PAD Room Controller and MTR; instead, a short HDMI cable connects the PC/laptop to the RX-PAD HDMI port.
  For the RXV81, this feature extends HDMI In functionality.
  For the RXV200, the feature offers added flexibility by enabling the use of a shorter HDMI cable connected to the center of the meeting room desk, in contrast to a longer (more expensive) cable connected to the RXV200 positioned in the front of the room.

  - 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.

■ New support has been added for an **RXV200 HDMI Out CEC (Consumer Electronics Control) One-Touch-Play** command. One-Touch-Play command is triggered by the RX-PAD human sensor that turns on/off the TV screen.
When RX-PAD (which is pre-set to 'Screen timeout') enters sleep mode, it automatically triggers the RXV200 to enter sleep mode as well, activating the CEC One-Touch-Play command to turn the TV off. Similarly, when the RX-PAD human sensor wakes up RX-PAD, the RXV200 will wake up as well, and will turn the TV on.

> **Note:** RXV81 does not support One-Touch-Play CEC and sleep mode.

See also here for more information.

■ **A new bundle configuration is now supported for RXV81 + AudioCodes RX15 Speaker + RX-PAD**. The name of the new bundle is **TEAMS-RXV81-B15**. Admin can configure the new bundle in the UI.

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

- When RXV200 boots up, if a single TV screen is connected to RXV200, it can be connected to either HDMI1 or to HDMI2. This TV screen will function as the primary screen irrespective of whether it is connected to HDMI1 or HDMI2.

- If after that another TV screen is connected to the available HDMI port on RXV200, this TV screen will become the secondary screen.

- If two TV screens are connected to RXV200 prior to boot up, the TV screen connected to HDMI1 will be used as the primary screen while the other TV screen will be used as the secondary screen.

■ **New Color Mode presets were added to RXVCAM50M/L** when the camera is connected to RXV200. The modes can be configured from RX-PAD. The feature enables users to configure a Color Mode: Default, Normal, Clarity, Bright and Soft.
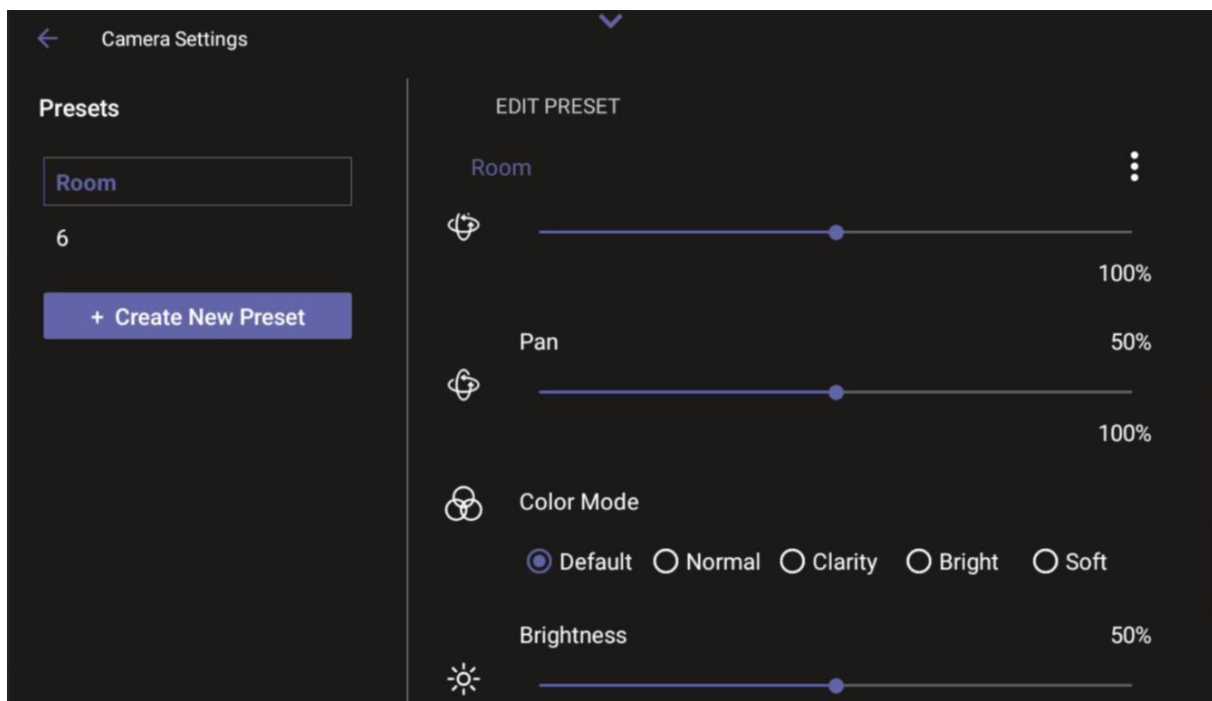
Each Color Mode incorporates the following attributes:

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

■ A **drop-down menu** has been added to the home page of the RX-PAD Meeting Room Controller **to make it easy to open the RX-PAD application launcher**.
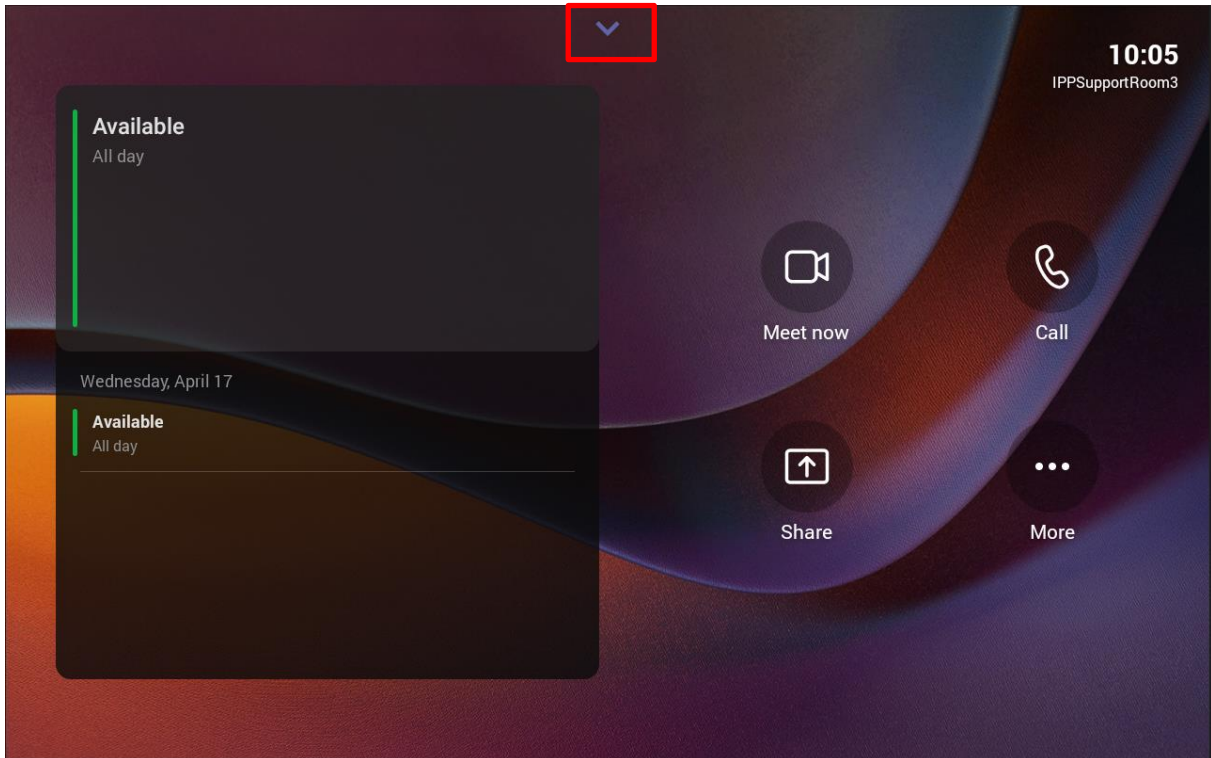


The new launcher enables accessing an app *with a single click*.

■ The density of the RX-PAD UI and the RX-PANEL UI has been fine-tuned; it was increased in order to improve (ease) the key pressing functionality.

■ The **RXV200 4K boot-up logo** has been updated.
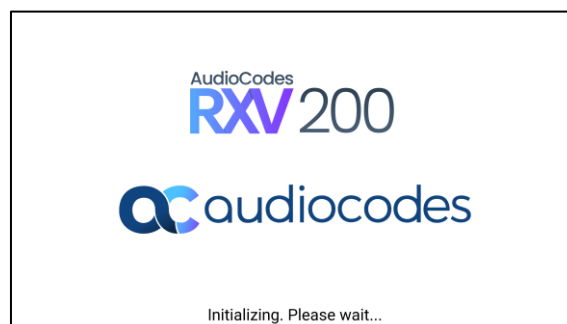


■ **Improved out-of-the-box troubleshooting**. **Admins can now monitor the status of the various software modules of the device**. If initial provisioning is unsuccessful or if admin encounters an issue related to the network / connection to Device Manager, the feature gives admin an indication as to why.

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

below shows the new System State screen that has been added (**Settings** > **Debugging** > **System State**).

The following figures show the System State pages.

← Settings

🔓 Device Administration

⚙ Display

🕐 Date & time

📶 Wi-Fi

✳ Bluetooth

🔌 USB

🕐 Power saving

🔓 Security

🌐 Languages & input

⟨⋯⟩ Modify network

← Debugging  ⌄ System State

LLDP CDP
Didn't run

IEEE 802 1x
Didn't run

Network
Ran with success result

DHCP Option
Ran with success result, IP : 192.168.33.4

DNS
Ran once with success result, Server: [192.168.33.1]

NTP
Ran with success result, Server: time.android.com/216.239.35.4

Switch To Voice Vlan
Didn't run

Proxy Configuration

---

← Settings

🔓 Device Administration

⚙ Display

🕐 Date & time

📶 Wi-Fi

✳ Bluetooth

🔌 USB

🕐 Power saving

🔓 Security

🌐 Languages & input

⟨⋯⟩ Modify network

← Debugging  ⌄ System State

Connect To Device Manager
Running, connected to https://ippdm.audiocodes.com:443/

Get Certificate By SCEP
Didn't run

Get Certificate By HTTP
Ran once with fail result, Reject response. Return code: 600

Firmware Update
Didn't run

Configuration Update
Didn't run

Redirect
Didn't run

Apps Update
Didn't run

Peripheral Devices Firmware Update

■ **USB Log Export in Recovery Mode**. This version introduces a new feature that empowers users to seamlessly save logs while their device is in recovery mode. In Android recovery mode, the system automatically mounts a partition, enabling users to connect a USB stick. By simply clicking the 'Export logs to USB disk' option, all logs are efficiently copied to the USB stick, providing a convenient and reliable method for log management during recovery procedures.

■ **A timeout has been added to the Admin login**. The timeout's value can be configured using a newly added cfg configuration file parameter:

settings/admin_logout_timeout,values=3

Default value: 3 (minutes)

Valid values: 1-10 (minutes)

Timing begins when exiting the 'Device Settings' menu. When the timeout expires, the device logs out automatically.

The functionality works for both registered and unregistered devices.

## 3.1.2    Resolved Limitations in Version 2.4.55

### 3.1.2.1   Device

**Table 3-1: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-12678 | [RXV81] On some occasions, background noise in the vicinity of the device might be heard too audibly by the remote party. |
| IPPAN-11593 | [RX-PANEL+RXV81+RXV200+RX-PAD] Under certain circumstances, the device stops sending keep-alive messages to Device Manager if Device Manager does not reply. |
| IPPAN-12558 | [RXV200/RXV81] [RX-PAD] Audio pairing is lost after switching users. |
| IPPAN-12076 | [RXV200] When navigating to the Network Details page, the connected Wi-Fi SSID cannot be seen. |
| IPPAN-12327 | [RXV200] Connecting a USB 2.0 cable for a touch screen provides an ETH connection to the RXV200; it should not. |
| IPPAN-8725 | The meeting room cannot play audio after a prolonged conference. |
| IPPAN-12178 | The RX-PAD console is unable to perform a user data reset to the RXV81 \| RXV200. |
| IPPAN-11852 IPPAN-12082 | [RXV200 \| RXV81] There is no video input and no two-way audio when joining a Cisco Webex meeting. |
| IPPAN-12041 | [RXV200] RXVCam10 is shown in Device Manager as 'Camera' type instead of 'Content Camera' type. |
| IPPAN-11976 | [RX-PANEL+RXV81+RX-PAD] After upgrading to new firmware, the device cannot reconnect to the same 802.1x network as before. |
| IPPAN-11672 | [RXV81] [Ad hoc / Full Peripheral mode] When long-pressing the volume button, the volume responds slowly. |
| IPPAN-11997 | On rare occasions, a notification 'RX-PAD Room Controller is not connected' is displayed even though RX-PAD is paired with RXV81 \| RXV200. |
| IPPAN-12350 | [RXV200] On some occasions, video freezes / lags occur in an incoming direction to the RXV200. This is due to packet loss handled incorrectly.. |
| IPPAN-10372 | [RXV200] [Accessibility] Color correction mode does not change on the screen. |

| Incident | Description |
|---|---|
| IPPAN-11242 | [RXV81/RXV200] The Wi-Fi strength icon is not clear against the dark background. |
| IPPAN-11855 | [RX-PAD] [HDMI In] Disconnecting and reconnecting RX-PAD's HDMI In might lead to malfunction. |
| IPPAN-11853 | [RX-PAD] [HDMI In] When a PC is connected to RX-PAD's HDMI In for screen sharing, reconnecting the RXV200 | RXV81 HDMI Out might result in an 'Error Fail to connect' message on the TV screen. |
| IPPAN-11773 | [Wi-Fi with 802.1x] 802.1x cannot be used when using the device's Wi-Fi. |
| IPPAN-12745 | A USB device with a friendly name that includes special characters (/) might not be recognized. |

### 3.1.2.2   Teams Application

**Table 3-2: Resolved Teams Limitations**

| Incident | Description |
|---|---|
| - | - |

## 3.1.3   Known Limitations in Version 2.4.55

### 3.1.3.1   Device

**Table 3-3: Known Device Limitations in Version 2.4.55**

| Incident | Description |
|---|---|
| IPPAN-9492 | [RXV200] When both HDMI Out ports are connected, the touch screen functions only on the TV connected to HDMI2. |
| IPPAN-11824 | The MTRA exhibits lower resolution video quality when participating in ZOOM meetings via Direct Join. |
| IPPAN-11662 | [RXV200] If the TV screen that is connected to the HDMI 1 port is linked to the RXV200 *after* the device has booted, a flickering display occurs when accessing the Camera Settings page. <br><br> For optimal performance, make sure the TV screen connected to the HDMI 1 port is linked to the RXV200 *before* booting up the device. |
| IPPAN-12795 | HDMI Out cannot be used to play audio. Audio must be played via the USB speakers. |
| IPPAN-12786 | [RXV81 as ad-hoc peripheral/full peripheral] The Settings icon of RX-PAD is displayed incompletely but can be used. |
| IPPAN-12738 | On rare occasions, the same screen displayed on HDMI1 and HDMI2 results in no secondary screen. |
| IPPAN-12471 | [RXV200] Some old TV screens might cause flashing on and off in the main screen. |
| IPPAN-12833 | Occasionally, screen sharing does not function when connecting a PC directly to the RXV200. A reboot resolves this issue. We are working on a fix for the next release. |
| IPPAN-12975 | Occasionally, the TV connected to the RXV200 may flash if it is turned on while the RXV200 is already running. Rebooting the RXV200 resolves this issue. We are working on a fix for the next release. |

### 3.1.3.2 Teams Application

Here are the known Teams application limitations in Version 2.4.55.

**Table 3-4: Known Teams Application Limitations in Version 2.4.55**

| Incident | Description |
| --- | --- |
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-10643 | [RX-PAD] There's a delay on RX-PAD when you answer a call. It's immediately displayed on the monitor but on RX-PAD the answering and call menus are still displayed after two to four seconds. |
| IPPAN-12728 | On some occasions, connecting two TV screens to RXV200 resulted in the Teams app getting stuck on 'Verifying a few things...' when first signing in. To work around this limitation, a single TV screen can be used during the sign-in. |
| IPPAN-12541 | Inviting a PSTN number during a Teams meeting via the RX-PAD console might cause a 'Teams keeps stopping' message. This issue is already solved and will be part of the next Teams app version 2.2.0. |

## 3.2    Version 2.2.808

### 3.2.1    What's New

> **Note:**
> - Version 2.2.808 of RXV81 (bundled with RX-PAD) and RXV200 (bundled with RX-PAD) includes Microsoft Teams app (U2) version 2023062301. For a list of new features / resolved limitations in the app, go here.
> - Version 2.2.808 of RX-PANEL includes Microsoft Teams app 2023111003 (U3A) . For a list of new features / resolved limitations in the app, go here.
> - To update to version 2.0.369 and later (2.2.x for example), the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.369 or later.

> **Note:**
> - MTRA = Microsoft Teams Room for Android
> - MTRA in this guide refers to both RXV81 and RXV200

- **New Microsoft apps:**
  - RX-PANEL Teams app was updated to 2023111003 (U3A). For more information, see here.
  - All devices were updated to Microsoft Admin Agent app 503. This app includes bug fixes.

- **4K HDMI Out support has been added to RXV200**

  RXV200 now features 4K HDMI Out support enabling users to seamlessly connect and display ultra-high-definition visuals in compatible external displays during Teams meetings, thereby ensuring a visually immersive and crystal-clear collaboration experience. Whether you're presenting a slideshow, streaming content, or simply extending your display, the addition of 4K HDMI Out enhances the overall viewing experience.

- **RXV81 and RXV200 MTRAs feature audio (Media & notifications) triggered by RX-PAD**

  RXV81 and RXV200 MTRAs now support audio notifications triggered by RX-PAD. Users now hear notifications produced by RX-PAD console directly through the MTRA. This enhancement includes crucial features such as Talkback accessibility, ensuring a more streamlined and accessible communication experience during meetings and collaboration sessions. The enhancement leverages Front of Room devices (RXV81 | RXV200) to serve as the audio source for RX-PAD, enabling the utilization of accessibility features on RX-PAD.

- **Enhanced Auto Framing Feature on RXV81**

  RXV81's Auto Framing feature has been enhanced to ensure a more refined and user-friendly experience, making user interactions with the device even smoother.

- **Chrome WebView was updated to version 119.0.6045.53**

  To protect against security vulnerability, Chrome WebView was updated to version 119.0.6045.53. More info can be found here.

■ **Improved firmware update process for RXV81 audio and camera peripherals**

This version introduces a safer and more streamlined process for updating RXV81 audio and camera peripherals. Unlike previous versions in which peripherals were updated separately after the RXV81 firmware update, the new approach integrates the audio and camera peripheral updates directly within the RXV81 firmware update process. This enhancement ensures a safer overall update experience for the RXV81 device, prioritizing device integrity.

## 3.2.2    Resolved Limitations in Version 2.2.808

### 3.2.2.1   Device

**Table 3-5: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-10883 | [RXV200 HDMI In] In HDMI In mode, the PC audio device is shown as Yamaha CS-800 (RXV200 chip vendor). |
| IPPAN-10873 | [RXV81 + RCU] On certain occasions, a 'Remote Control is not connected' popup is erroneously displayed, though the RCU functions well. |
| IPPAN-10659 | [RXV81 ad hoc peripherals] At times during conversations, RXV81 audio may experience occasional instability, leading to brief interruptions in voice communication with remote parties |
| IPPAN-10853 | [RXV200] If RXVCam50 is connected while RXV200 is already turned on, the Auto Framing option might not function. |
| IPPAN-10371 | [RX-PAD] The camera doesn't resume the previous PTZ setting after enabling and disabling Auto-Framing from RX-PAD. |
| IPPAN-10679 | When updating the device from Microsoft TAC, there is no download progress bar pop-up indication; the indication is presented when the device update starts. |
| IPPAN-10372 | [RXV200] [Accessibility] Color correction mode does not affect the colors displayed in the screen. |
| IPPAN-11322 | [RXV200] The RXVCam50 default saturation value is wrong (too low). |
| IPPAN-11555 | [RXV81] [Ad-hoc peripheral] Remote Controller home screen image is not accurate. |
| IPPAN-11611 | [RXV81] [Ad-hoc peripheral] If 'Answer call' is pressed twice, the call is ended by mistake. |
| IPPAN-10549 | [RXV81] [Ad hoc peripheral] On certain occasions, a single press of the volume keys (+ or -) may result in the volume changing by more than one increment. |
| IPPAN-10871 | [RXV81] [Ad hoc peripheral] Editing a temporary preset via the Camera Settings page is not possible. |
| IPPAN-10638 | [RXV81] [Ad hoc peripheral]  On certain occasions, pressing the mute key to mute or unmute results in the 'mute' function not responding. |
| IPPAN-11382 | [RXV200] After shutting down RXV200 for several hours and then booting it, RX-PAD cannot pair with RXV200. |
| IPPAN-11355 | On some occasions, RX-PAD cannot be updated via AudioCodes Device Manager, indicating 'Zip file could not be found'. |
| IPPAN-11404 | On some occasions, when the device is located behind a Proxy, it cannot upgrade from Microsoft Teams admin center (TAC). |
| IPPAN-10823 | [RX-PAD] Setting VLAN Discovery Mode to LLDP+CDP or Manual in the VLAN Settings page often results in a 'Settings isn't responding' message popping up. |
| IPPAN-11800 | The Wi-Fi setting is sometimes automatically turned on. |
| IPPAN-10647 | [RX-PAD | RX-PANEL] After setting Static IP and then powering off there's a probability of entering Android Recovery automatically. |
| IPPAN-10828 | [RX-PANEL] On some occasions, RX-PANEL Settings crash when modifying VLAN settings. |

| Incident | Description |
|---|---|
| IPPAN-11243 | [RX-PAD] The Camera Settings page is cut off when font size is large or largest. |
| IPPAN-10960 | [RXV200] The user can mute a call which is on hold. |
| IPPAN-10827 | [RX-PAD] On rare occasions, the device gets stuck after the screensaver setting is changed from '30s' to 'Never' and then not using the device for a while. |
| IPPAN-11043 | On some occasions, Microsoft Teams Cast feature does not function optimally, probably related to BLE signal strength. |
| IPPAN-10882 | After creating a new view in RX-PAD Camera Settings, the new view is not synchronized with RXV81 | RXV200. |
| IPPAN-10184 | [RXV200] On some occasions, the ring & notification volume are changed to 0 or to a random value when ending a call. |
| IPPAN-10523 | [RX-PAD] [Camera Settings] Users can create presets during a Teams meeting without logging in as administrator. |
| IPPAN-10780 | [RX-PAD] [Camera Settings] The focus goes to the (default) preset 'Room' even though the user scrolls to other presets. |
| IPPAN-10533 | The user is unable to click the 'back' button in the Settings page after a sign-out action. |
| IPPAN-10623 | The user cannot access 'Text-to-speech output' options under Languages & Input. |
| IPPAN-11172 | During 'reset configuration', the device wrongly pops up a 'No Internet' indication. |
| IPPAN-10602 | Talkback voice is found to be inaudible even at maximum volume. The issue was solved with the new feature 'RXV81 | RXV200 Introduces Audio Notifications for RX-PAD' described here. |
| IPPAN-11391 | The keyboard unnecessarily pops up when the user clicks Device Settings > Device Administrator > Logged-out user. |
| IPPAN-11289 | [RXV200] Setting Static IP without 'network prefix length' causes the device to reboot & go into Recovery Mode. |
| IPPAN-9951 | The Admin user is unable to perform 'Factory reset' after 'User data reset' when 'Factory data reset' is blocked in the Intune portal. |

### 3.2.2.2   Teams Application

**Table 3-6: Resolved Teams Limitations**

| Incident | Description |
|---|---|
| - | - |

### 3.2.3    Known Limitations in Version 2.2.808

#### 3.2.3.1    Device

Here are the known device limitations in Version 2.2.808.

**Table 3-7: Known Device Limitations in Version 2.2.808**

| Incident | Description |
|---|---|
| IPPAN-9492 | [RXV200] When both HDMI Out ports are connected, touching the screen doesn't function. |
| IPPAN-11855 | [RX-PAD] [HDMI In] Disconnecting and reconnecting RX-PAD's HDMI In might lead to malfunction. |
| IPPAN-11853 | [RX-PAD] [HDMI In] When a PC is connected to RX-PAD's HDMI In for screen sharing, reconnecting the RXV200 | RXV81 HDMI Out might result in an 'Error Fail to connect' message on the TV screen. |
| IPPAN-11824 | The MTRA exhibits lower resolution video quality when participating in ZOOM meetings via Direct Join. |
| IPPAN-11773 | [Wi-Fi with 802.1x] 802.1x cannot be used when using the device's Wi-Fi. |
| IPPAN-11662 | [RXV200] If the TV screen that is connected to the HDMI 1 port is linked to the RXV200 *after* the device has booted, a flickering display occurs when accessing the Camera Settings page.<br><br>For optimal performance, make sure the TV screen connected to the HDMI 1 port is linked to the RXV200 *before* booting up the device. |
| IPPAN-11242 | The Wi-Fi strength icon is not clearly visible against the black background. |

### 3.2.3.2  Teams Application

Here are the known Teams application limitations in Version 2.2.808

**Table 3-8: Known Teams Application Limitations in Version 2.2.808**

| Incident | Description |
|---|---|
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| IPPAN-2510 | An incorrect date format is displayed when the current language is Simple Chinese. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-10817 | [MTR on Android] There is no video in third-party Webex meetings. |
| IPPAN-10643 | [RX-PAD] There's a delay on RX-PAD when you answer a call. It's immediately displayed on the monitor but on RX-PAD the answering and call menus are still displayed after two to four seconds. |

## 3.3      Version 2.2.335

### 3.3.1      What's New

> **Note:**
> - Version 2.2.335 of RXV81 (bundled with RX-PAD) and RXV200 (bundled with RX-PAD) includes Microsoft Teams app (U2) version 2023062301. For a list of new features / resolved limitations in the app, go here.
> - To update to version 2.0.369 and later (2.2.x for example), the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.369 or later.

- Version 2.2.235 includes only fixes (Resolved Limitations).
- Version 2.2.235 does not include new apps or new features.

> **Note:**
> - MTRA = Microsoft Teams Room for Android
> - 'MTRA' in this guide refers to both RXV81 | RXV200

## 3.4      Resolved Limitations in Version 2.2.335

### 3.4.1      Device

**Table 3-9: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-10916 | [RXV81] On rare occasions, RXV81 SSH is inaccessible and Teams might also get stuck. |
| IPPAN-10795 | [RXV200] The RXVCam50 camera stops functioning after plugging in / unplugging several times and switching between USB ports of the USB cable. |
| IPPAN-11178 | [RXV200/RXV81 with RX-PAD] The camera's Auto Framing feature does not turn off when building presets. |
| IPPAN-10926 | [RXV200] Flickering HDMI Out while HDMI In is connected on a CE65GA TV screen. |
| IPPAN-10967 | [RXV200] The 'No Camera available, closing...' popup does not disappear after closing the Camera Settings from RX-PAD. |

### 3.4.2    Teams Application

**Table 3-10: Resolved Teams Limitations**

| Incident | Description |
|:---:|:---|
| - | - |

# 3.5    Known Limitations in Version 2.2.335

### 3.5.1    Teams Application

Here are the known Teams application limitations in Version 2.2.335

**Table 3-11: Known Teams Application Limitations in Version 2.2.335**

| Incident | Description |
|:---:|:---|
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| IPPAN-2510 | An incorrect date format is displayed when the current language is Simple Chinese. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-10817 | [MTR on Android] There is no video in third-party Webex meetings. |
| IPPAN-10643 | [RX-PAD] There's a delay on RX-PAD when you answer a call. It's immediately displayed on the monitor but on RX-PAD the answering and call menus are still displayed after two to four seconds. |

### 3.5.2    Device

Here are the known device limitations in Version 2.2.335.

**Table 3-12: Known Device Limitations in Version 2.2.335**

| Incident | Description |
|:---:|:---|
| IPPAN-10679 | When updating the device from Microsoft TAC, there is no download progress bar pop-up indication; the indication is presented when the device update starts.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10371 | [RX-PAD] The camera doesn't resume the previous PTZ setting after enabling and disabling Auto-Framing from RX-PAD.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10853 | [RXV200] If the RXVCam50 was connected while RXV200 was already turned on, the Auto Framing option might not function.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-9492 | [RXV200] When both HDMI Out ports are connected, touching the screen doesn't function. |
| IPPAN-10549 | [RXV81 ad hoc peripherals] On certain occasions, a single press of the volume keys (+ or -) may result in the volume changing by more than one increment.<br>The issue has been fixed and is set for the next version release. |

| Incident | Description |
|---|---|
| IPPAN-10638 | [RXV81 ad hoc peripherals]  On certain occasions, pressing the mute key to mute or unmute results in the 'mute' function not responding.<br><br>The issue has been fixed and is set for the next version release. |
| IPPAN-10871 | [RXV81 ad hoc peripherals] Editing a temporary preset via the Camera Settings page is not possible.<br><br>The issue has been fixed and is set for the next version release. |
| IPPAN-10659 | [RXV81 ad hoc peripherals] At times during conversations, RXV81 audio may experience occasional instability, leading to brief interruptions in voice communication with remote parties |
| IPPAN-10873 | [RXV81 + RCU] On certain occasions, a 'Remote Control is not connected' popup is erroneously displayed, though the RCU functions well.<br><br>The issue has been fixed and is set for the next version release. |
| IPPAN-10883 | [RXV200 HDMI In] In HDMI In mode, the PC audio device is shown as Yamaha CS-800 (RXV200 chip vendor). |
| - | [RXV200 HDMI In] In HDMI In mode, the PC audio volume is not synchronized with the RXV200 audio peripheral device. |

# 3.6    Version 2.2.311

## 3.6.1    What's New

> **Note:**
> - Version 2.2.311 of RXV81 (bundled with RX-PAD) and RXV200 (bundled with RX-PAD) includes Microsoft Teams app (U2) version 2023062301. For a list of new features / resolved limitations in the app, go here.
> - Version 2.2.311 of RX-PANEL includes Microsoft Teams app U3. For a list of new features / resolved limitations in the app, go here.
> - To update to version 2.0.369 and later (2.2.x for example), the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.369 or later.

■ **New Microsoft application versions:**

- **[RXV81 bundled with RX-PAD | RXV200 bundled with RX-PAD]**
  - ♦ Microsoft Teams application **U2** version 2023062301. For the list of features/fixes added in this app, see here.
  - ♦ Microsoft Intune Company Portal 5.0.5484.0
  - ♦ Admin Agent app 486

> **Note:** .
> - MTRA = Microsoft Teams Room for Android
> - 'MTRA' in this guide refers to both RXV81 | RXV200

- **[RX-PANEL]**
  - ♦ Microsoft Teams application **U3**
  - ♦ Microsoft Intune Company Portal 5.0.5484.0
  - ♦ Admin Agent app 486
  - ♦ For more information, see here.

■ **Auto Framing support has been added to RXV81**.

- An Auto-Framing switch was added to Camera Settings.
- In addition to RXV81, the feature is also available on RXVCam50L/M connected to RXV200.
- To enable Auto-Framing on the MTRA device paired with RX-PAD, the camera hard key is used to access the Camera Settings page.
  For RXV81 paired with the Remote Controller unit (RCU), the Camera Settings page is accessed by long-pressing the RCU camera button.

> **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.
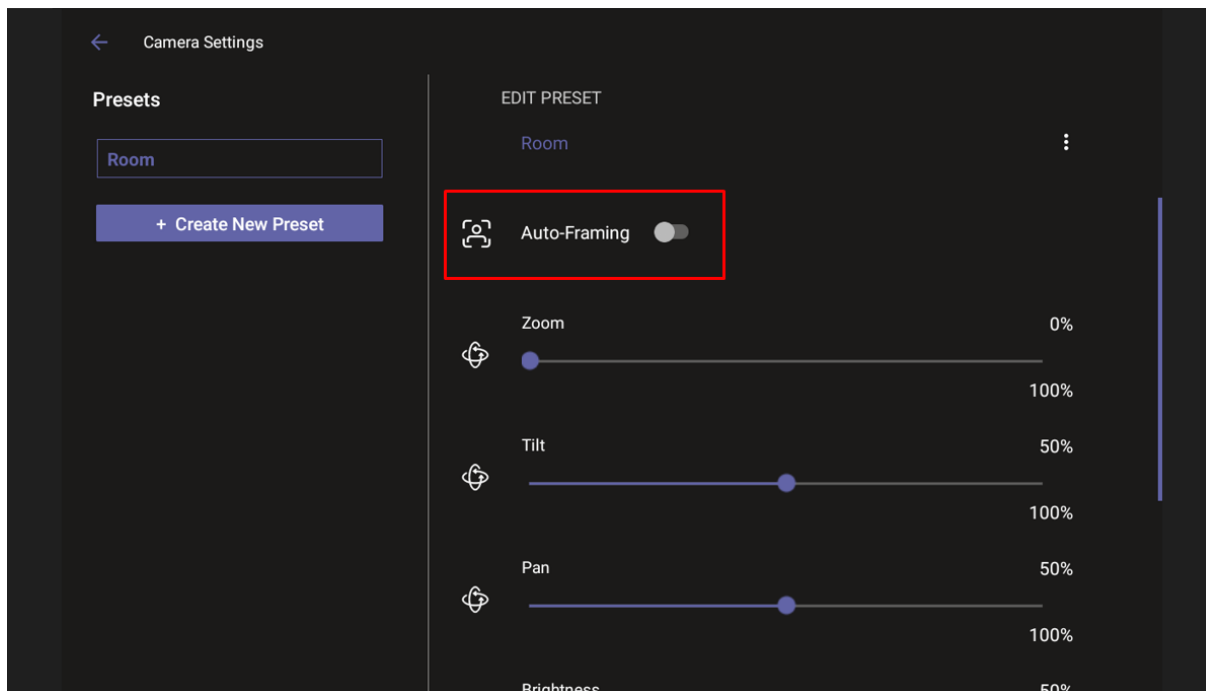
- When Auto- Framing is enabled, PTZ (Pan Tilt Zoom) functions are disabled.
- **Camera Settings temporary presets for users without admin permissions**:
  - In the Camera Settings page, a user without administrator permissions can create temporary presets.
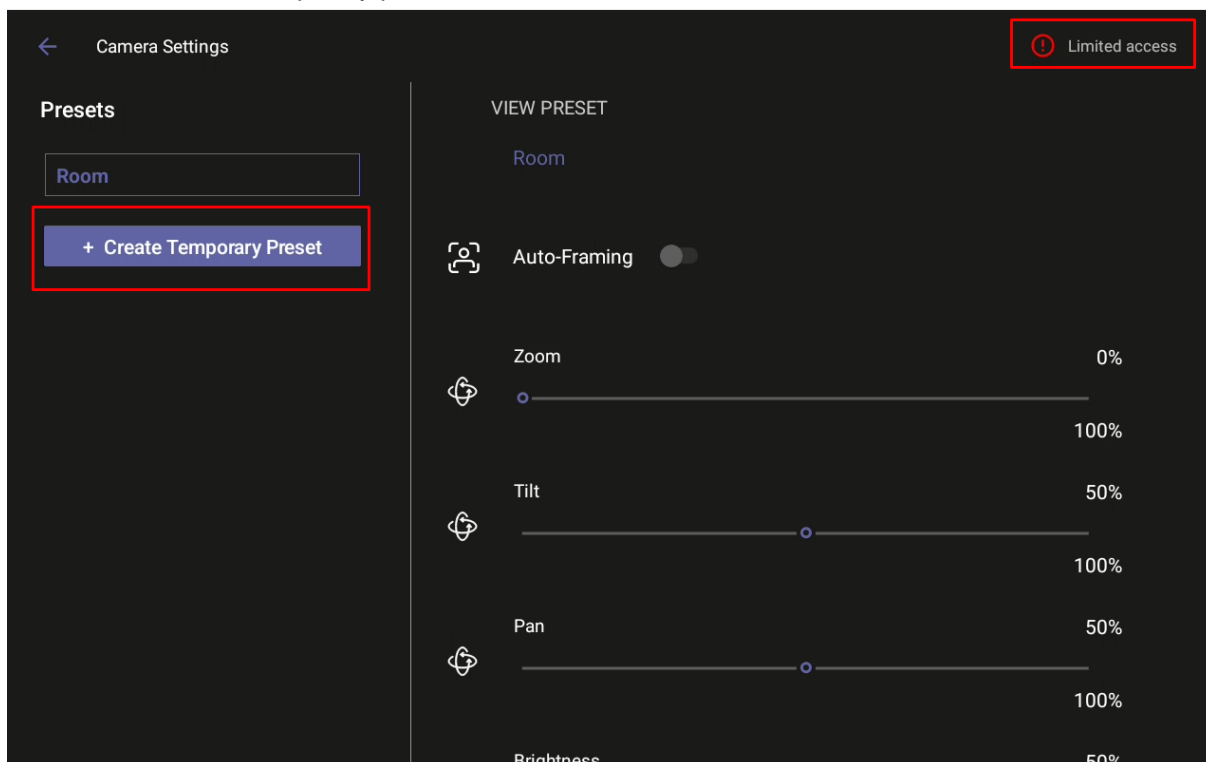


- If that user leaves the meeting, the temporary presets will be erased when they later reenter Camera Settings (or another user later enters); temporary presets are only for that meeting they were configured for; new presets can be configured for the new meeting.
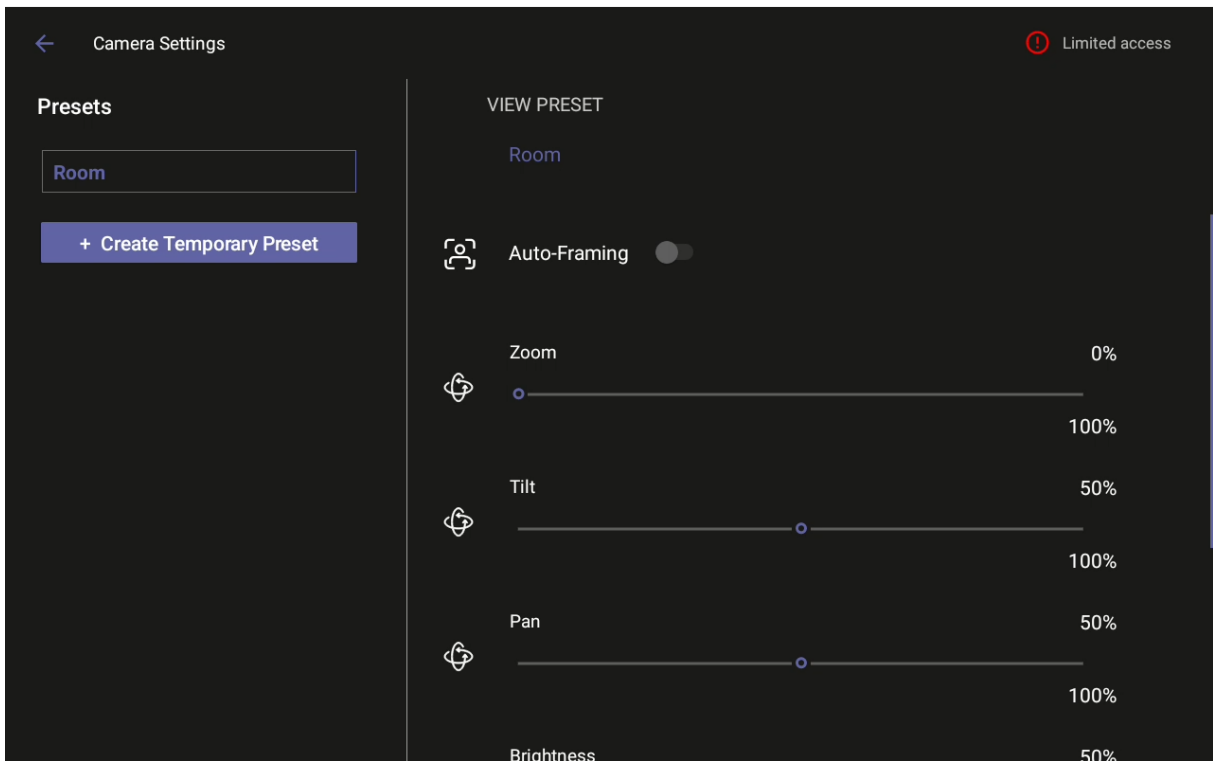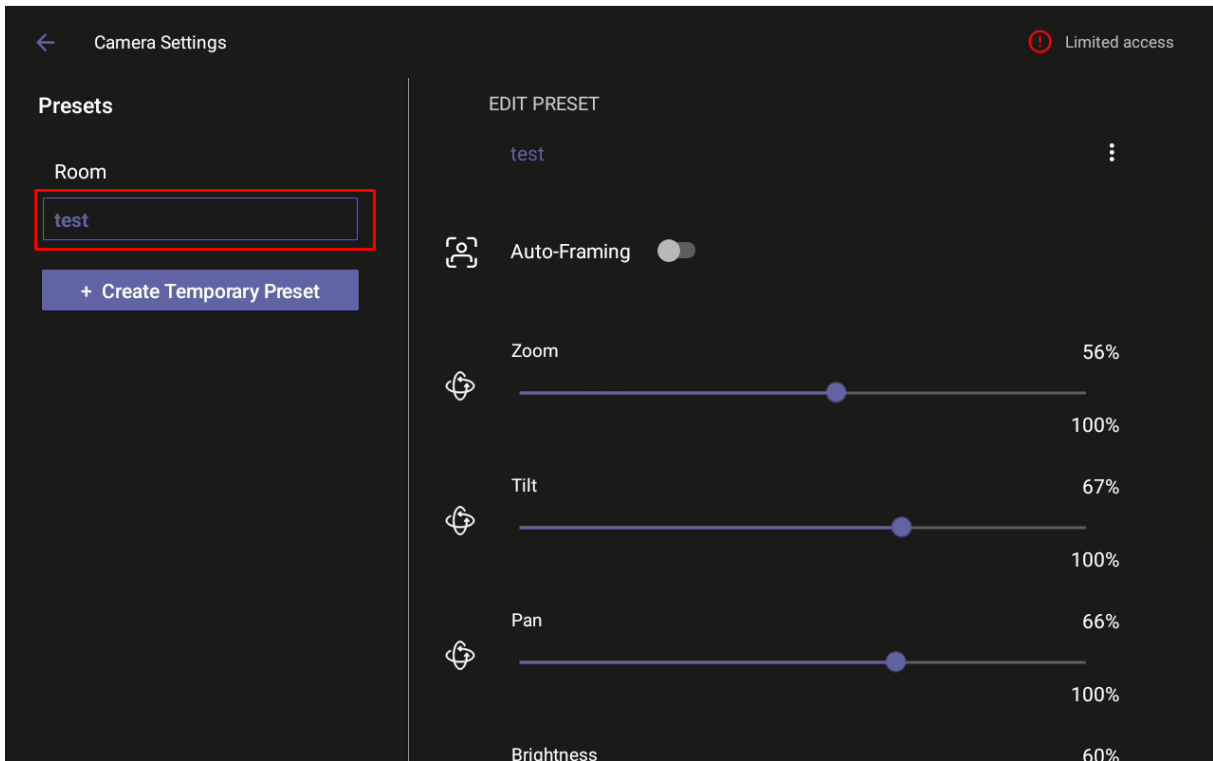
■ **Enhanced message confirmation for MTRA devices**. Version 2.2.311 introduces enhancements improving user interaction. Pop-up messages displayed on the MTRA device are seamlessly mirrored in the bundled RX-PAD. When a message pops up in the MTRA GUI, the same is displayed in RX-PAD. The enhancement streamlines user experience, allowing users to conveniently confirm messages directly from RX-PAD and manage notifications intuitively and efficiently.

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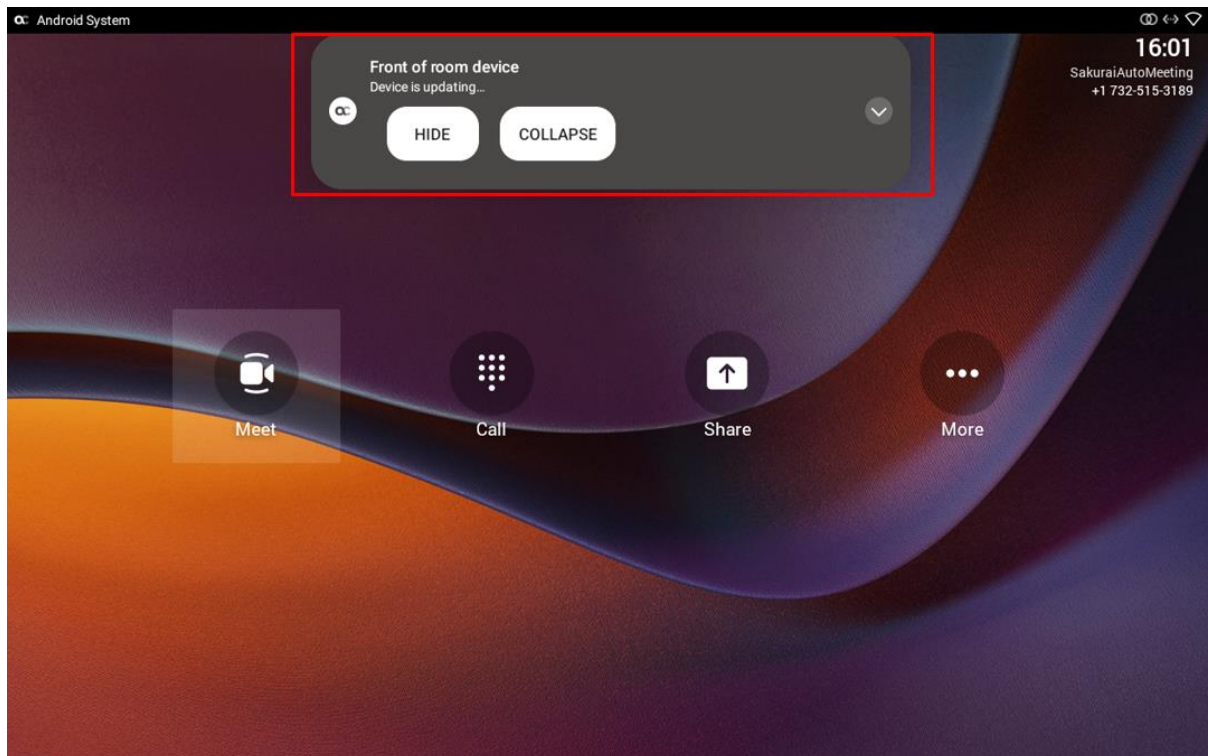


- If the alert is an action, you can perform the action using RX-PAD, for example, REBOOT / DO IT LATER / COLLAPSE, as shown in the figure below.
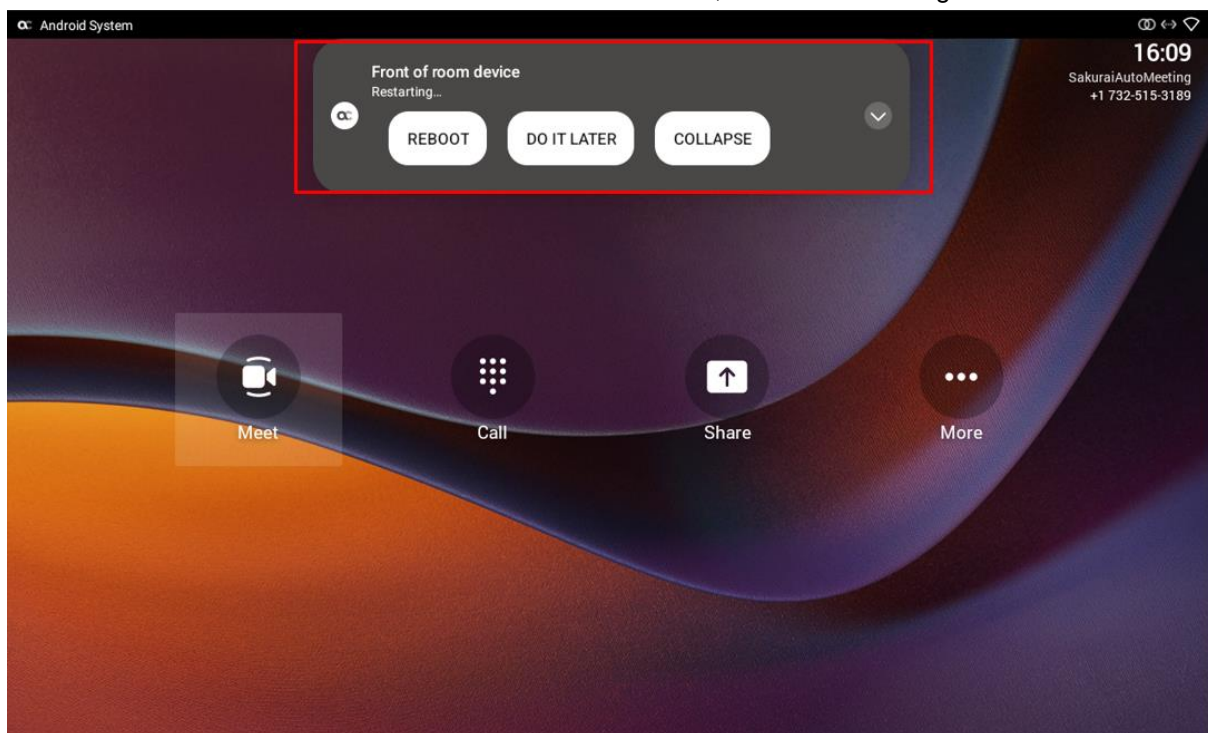
■   Admins can **configure an MTRA bundle** in the MTRA device's GUI. Admins can navigate to the setting using RX-PAD Keypad app that controls the MTRA. Admins must be logged in in order to access the Bundle page. The figures below respectively show the RXV81 and RXV200 Bundle pages.
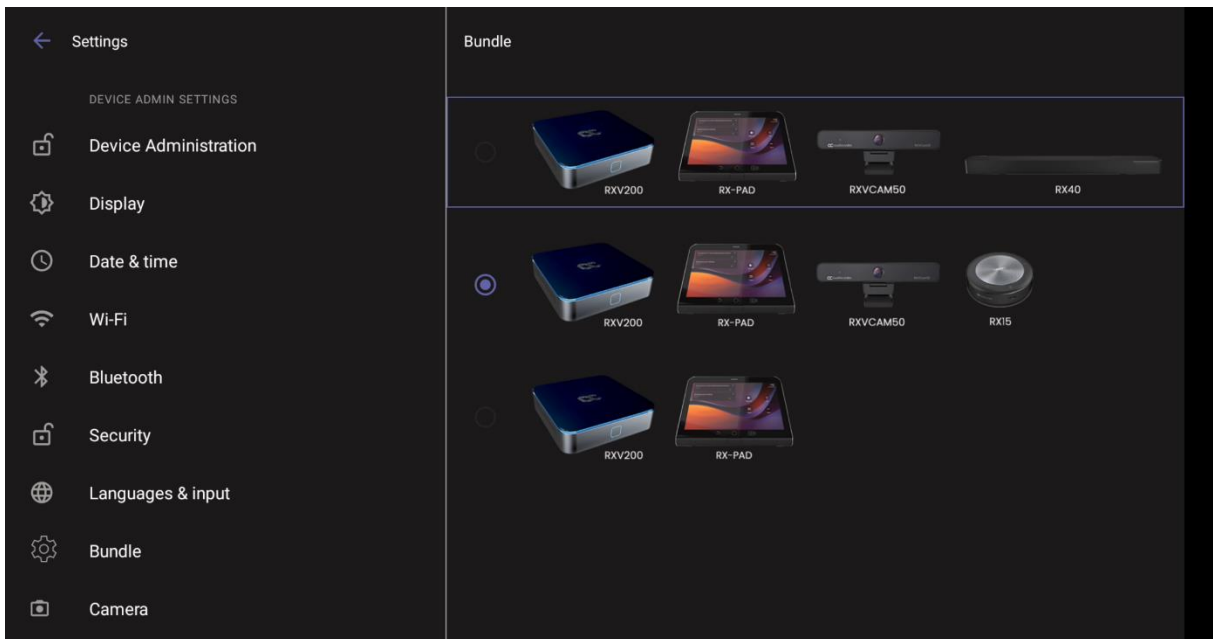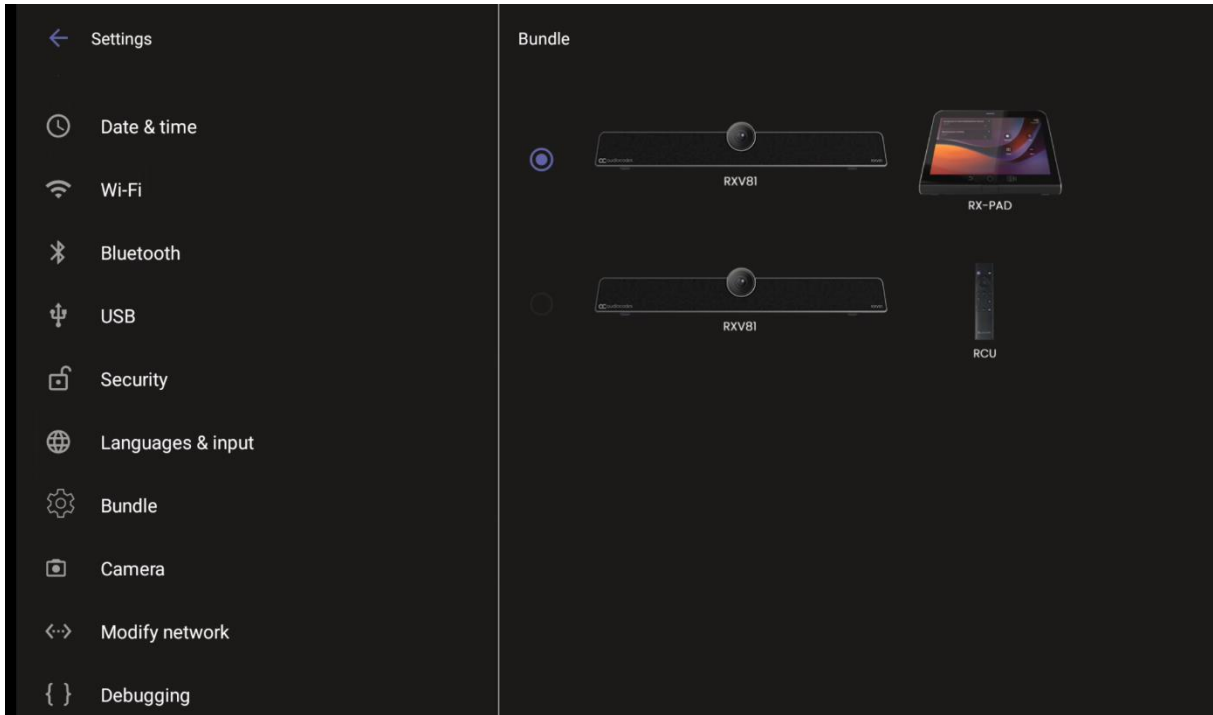
■ **RXV81 and RX-PAD support ad hoc peripheral mode. In addition, substantial improvements were made to the user interface of RXV81 when it is bundled with the Remote Control Unit (RCU)**.

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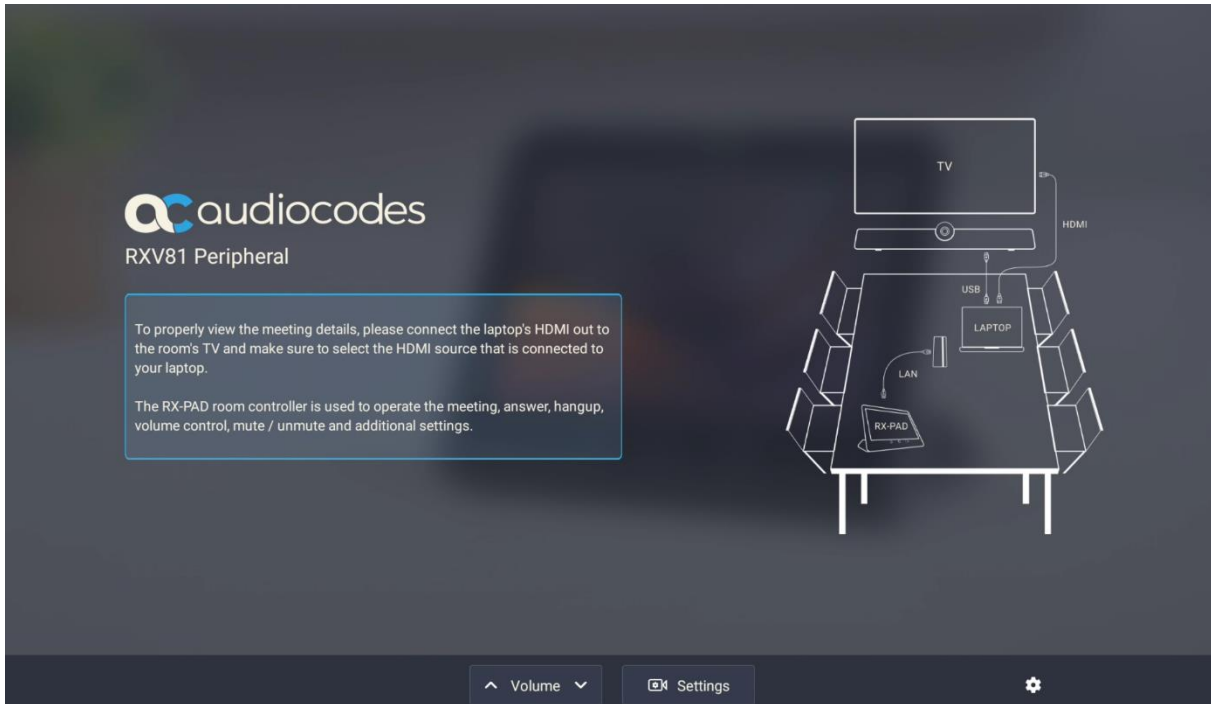


When a call comes in, RX-PAD displays the incoming call's functions as follows:
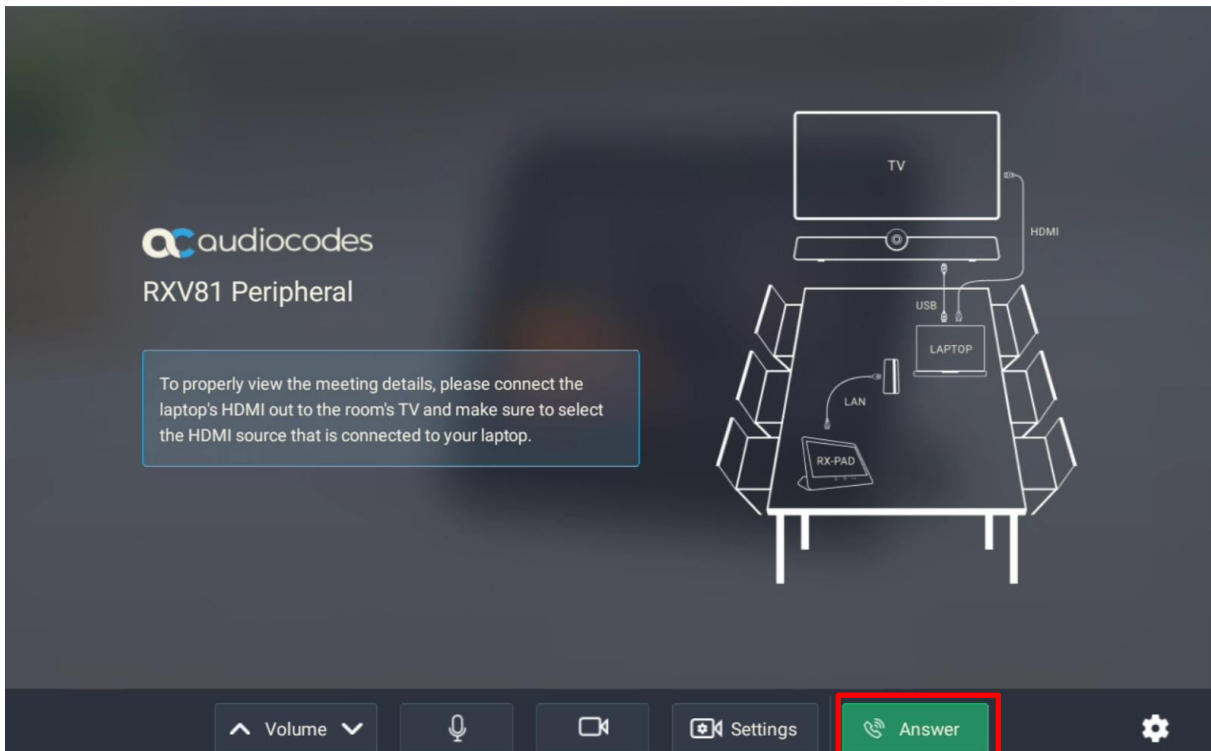
RXV81 displays peripheral ad hoc mode as follows:
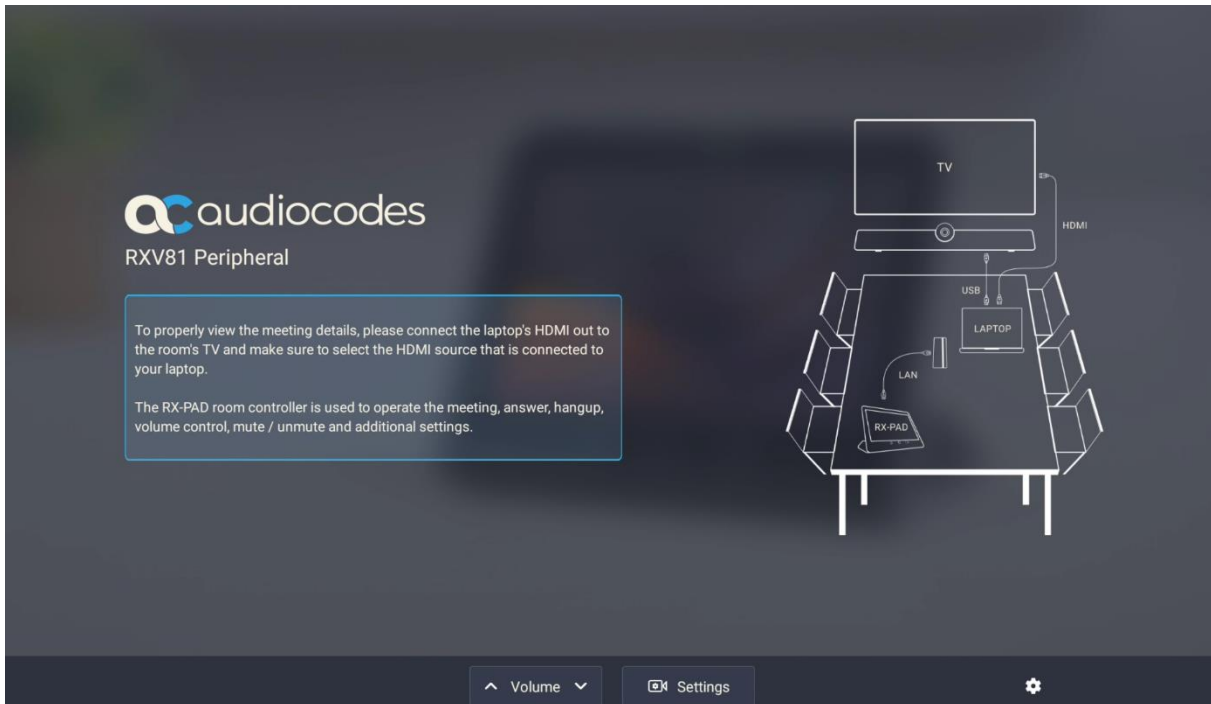


- The RXV81 GUI displaying ad hoc peripheral mode for **RXV81 bundled with the Remote Controller** unit (RCU) has been improved:



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.

■ A new option was added to the **RXV200 for audio content to be shared when connecting a PC/laptop to the HDMI In of the RXV200**.

■ Version 2.2.311 of RXV200 includes a firmware update for older firmware on RXVCam50 and RX15 connected to it as peripheral devices. The peripheral firmware updates are automatically implemented when these peripherals are connected and detected as older than the existing firmware.

■ An enhanced bug report is now available for more efficient debugging. More information such as pack up time, ps, top, meminfo and df commands (information about file system disk space usage) have been added to the report.

# 3.7 Resolved Limitations in Version 2.2.311

> **Note:**
> • Applies only to RXV81 and RX-PAD which were released before version 2.2.311.
> • Not applicable to RXV200, RX-PAD and RX-PANEL as this is their first version release.

## 3.7.1 Device

**Table 3-13: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-10767 | On some occasions, RX-PAD skips the language selection that is part of the initial setup wizard. As a result, pairing with the MTRA device fails. |
| IPPAN-10641 | The device does not publish the location via LLDP packets after restoring to default. |
| IPPAN-10652 | VLAN discovery mode is set by mistake to LLDP+CDP when disabling LLDP via configuration. |
| IPPAN-9780 | After updating the configuration with a PIN lock using TAC, OVOC or Device Manager, the device applies the lock but the lock is also applied to the MTRA device; it shouldn't be. |
| IPPAN-9762 | [RXV81] There's an audio quality issue: The surrounding noise is too loud and interferes with the audio quality experienced by the remote party listeners. |
| IPPAN-9882 | [RXV81 Wi-Fi] Enabling Wi-Fi is sometimes unsuccessful. |
| IPPAN-10550 | [RXV81 Ad hoc peripherals] The Remote Controller sometimes doesn't respond. |
| IPPAN-10286 | [RXV81] Setting the ringer volume from RX-PAD can cause non-stop ringing on RXV81. |
| IPPAN-10284 | [RX-PAD] Some power supplies connected to RX-PAD can cause the touch feature to function poorly. |
| IPPAN-9281 | [RX-PAD]  The 'Enter' key on the RX-PAD Remote Keyboard doesn't function when trying to log in with Device Administration on RXV81. |

### 3.7.2    Teams Application

**Table 3-14: Resolved Teams Limitations**

| Incident | Description |
|----------|-------------|
| IPPAN-8822 | [RXV81↔RX-PAD] When a meeting starts, the RX-PAD camera icon is shown as disabled while it is actually enabled. After 15-20 minutes, the icon starts showing the correct status. |

## 3.7.3    Known Limitations in Version 2.2.311

### 3.7.3.1    Teams Application

Here are the known Teams application limitations in Version 2.2.311

**Table 3-15: Known Teams Application Limitations in Version 2.2.311**

| Incident | Description |
|----------|-------------|
|  |  |
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| IPPAN-2510 | An incorrect date format is displayed when the current language is Simple Chinese. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-10817 | [MTR on Android] There is no video in third-party Webex meetings. |
| IPPAN-10643 | [RX-PAD] There's a delay on RX-PAD when you answer a call. It's immediately displayed on the monitor but on RX-PAD the answering and call menus are still displayed after two to four seconds. |

### 3.7.3.2    Device

Here are the known device limitations in Version 2.2.311.

**Table 3-16: Known Device Limitations in Version 2.2.311**

| Incident | Description |
|----------|-------------|
| IPPAN-10679 | When updating the device from Microsoft TAC, there is no download progress bar pop-up indication; the indication is presented when the device update starts. The issue has been fixed and is set for the next version release. |
| IPPAN-10371 | [RX-PAD] The camera doesn't resume the previous PTZ setting after enabling and disabling Auto-Framing from RX-PAD. The issue has been fixed and is set for the next version release. |
| IPPAN-10795 | [RXV200] It's currently recommended to plug in the RXVCam50 before booting RXV200. The RXVCam50 might stop working when disconnecting and reconnecting it on the fly or if it is connected after the device is already booted up. If this occurs, reboot RXV200 to resolve the issue. The issue has been fixed and is set for the next version release. |

| Incident | Description |
|---|---|
| IPPAN-10853 | [RXV200] If the RXVCam50 was connected while RXV200 was already turned on, the Auto Framing option might not function.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-9492 | [RXV200] When both HDMI Out ports are connected, touching the screen doesn't function. |
| IPPAN-10549 | [RXV81 ad hoc peripherals] On certain occasions, a single press of the volume keys (+ or -) may result in the volume changing by more than one increment.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10638 | [RXV81 ad hoc peripherals] On certain occasions, pressing the mute key to mute or unmute results in the 'mute' function not responding.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10871 | [RXV81 ad hoc peripherals] Editing a temporary preset via the Camera Settings page is not possible.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10659 | [RXV81 ad hoc peripherals] At times during conversations, RXV81 audio may experience occasional instability, leading to brief interruptions in voice communication with remote parties |
| IPPAN-10873 | [RXV81 + RCU] On certain occasions, a 'Remote Control is not connected' popup is erroneously displayed, though the RCU functions well.<br>The issue has been fixed and is set for the next version release. |
| IPPAN-10883 | [RXV200 HDMI In] In HDMI In mode, the PC audio device is shown as Yamaha CS-800 (RXV200 chip vendor). |
| - | [RXV200 HDMI In] In HDMI In mode, the PC audio volume is not synchronized with the RXV200 audio peripheral device. |

## 3.8 Version 2.0.369

[Relevant to RXV81 only]

### 3.8.1 What's New

> ⚠️ **Note:**
> - Version 2.0.369 includes Microsoft Teams app version 2023062301.
> - For a list of new features / resolved limitations in the app, go here.
> - To update to version 2.0.369, the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.369.

- **Admins can manually configure NTP**. Until this version release, NTP was provided via DHCP Option 42 or via time server URLs. With this new capability, the admin can set the NTP manually (or via provisioning).

- **New apps (on RXV81 and RX-PAD):**
  - New Microsoft Teams application: **U2**, 2023062301. For the list of features/fixes added in this app, see Release Notes for Microsoft Teams Rooms - Microsoft Teams | Microsoft Learn.
  - Company Portal 5.0.5484.0
  - Admin Agent 463

- RXV81 displays a new warning message 'AudioCodes RXV81 Audio is being updated, do not reboot the device' which pops up immediately after firmware upgrade if it's necessary to update the Audio peripheral.
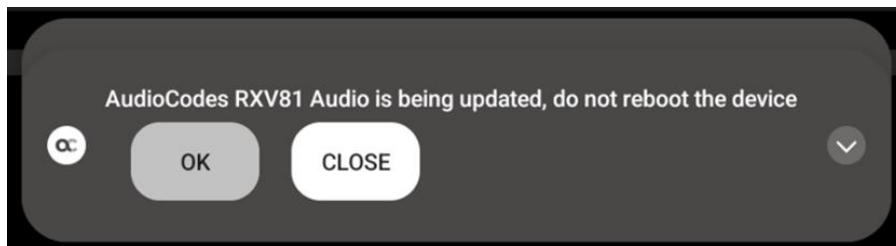


- The **'Camera' hard key now allows a simple press** to open 'Camera Settings'.
- Removed the option to lock Microsoft Teams Room devices in compliance with the Microsoft Teams Room for Android (MTRfA) specification.

## 3.9 Resolved Limitations in Version 2.0.369

### 3.9.1 Device

**Table 3-17: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-9653 | DHCP Option 12 (host name) isn't sent in DHCP discover. |
| IPPAN-9629 | [RXV81] The green video and microphone icon is displayed in the RXV81 notification bar during a meeting. |
| IPPAN-9674 | [RXV81] Audio and camera version information is sometimes displayed incorrectly in the device's user interface. |
| IPPAN-9644 | [RXV81] The option to 'Disable Touch' mistakenly exists in the Microsoft Teams Room for Android device, in the 'Device Settings' menu (applies to devices without hard keys). |
| IPPAN-9433 | [RXV81] The cursor disappears when trying to access the 'Device Administrator Settings'. |
| IPPAN-8115 | [RX-PAD, RXV81] On some occasions, when booting a paired and signed-in RXV81, RX-PAD prompts to connect again to the RXV81. |
| IPPAN-9371 | [RX-PAD, RXV81] When configuring a screensaver via RX-PAD, it does not reflect in the RXV81. |
| IPPAN-9366 | [RX-PAD, RXV81] The 'Time Zone' setting via Microsoft TAC does not reflect in the RXV81. |
| IPPAN-9347 | [RXV81] On some occasions, the device doesn't send an INIT to the Device Manager after a reboot. |
| IPPAN-9370 | [RX-PAD] Touch navigation in the Device Settings page is not smooth. |
| IPPAN-9354 | [RX-PAD, RXV81] On some occasions, the Bluetooth connection between RX-PAD and RXV81 disconnects, requiring re-pairing the devices. |
| IPPAN-9815 | The mute LED does not switch off after restarting the Teams app from the Admin Debugging screen. |
| IPPAN-9693 | Mexico 2023 time zone is updated and as a result, the device displays 1 hour ahead. |
| IPPAN-9564 | [HTTP/S Proxy] The proxy is not working because the PAC file keeps being downloaded to the device. |
| IPPAN-9217 | Setting the maximum transmission unit (MTU) via DHCP Option 26 does not work. |
| IPPAN-9872 | Using DHCP Option 160, parameter 'dhcp/provision_url' can be set to a value of up to 91 characters. This might create an issue with connecting to Live Cloud via DHCP Option 160 as it sometimes requires a long URL name. |
| IPPAN-9326 | On some occasions, while performing firmware upgrade via Microsoft TAC, the firmware download might take an excessive amount of time and the upgrade will result in failure in Microsoft TAC even though the upgrade ends successfully. |
| IPPAN-9242 | [RXV81↔RX-PAD] The admin password pushed from Microsoft TAC is implemented only on the RXV81 and not on the paired RX-PAD. |
| IPPAN-9360 | [RX-PAD] On some occasions, the Teams application does not load following 'Restore to default'. Workaround: Press the Teams icon from the AudioCodes application launcher. (The issue will be fixed in the upcoming version release). |

| Incident | Description |
|---|---|
| IPPAN-9310 | [RX-PAD] Device Settings → Accessibility TalkBack doesn't function (will be fixed in the upcoming version release). |
| IPPAN-9372 | [RX-PAD] The '=' key is not being recognized on the RXV81 when selected from the RX-PAD keyboard. |
| IPPAN-9374 | [RX-PAD] A message stating that 'RXV81 is signed out' is mistakenly displayed for a while immediately after the RX-PAD reboot (while the RXV81 is correctly signed in). |

# 3.10    Known Limitations in Version 2.0.369

## 3.10.1    Teams Application

Here are the known Teams application limitations in Version 2.0.369

**Table 3-18: Known Teams Application Limitations in Version 2.0.369**

| Incident | Description |
|---|---|
| IPPAN-2270, IPPAN-4548 | [RXV80, C450HD] The device sometimes displays a 'Poor internet connection' message in the main screen for a few seconds and then the message disappears. |
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| IPPAN-2510 | An incorrect date format is displayed when the current language is Simple Chinese. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-8822 | [RXV81↔RX-PAD] When a meeting starts, the RX-PAD camera icon is shown as disabled while it is actually enabled. After 15-20 minutes, the icon starts showing the correct status. |
| - | There is no video in third-party Webex Meeting. |

## 3.10.2    Device

Here are the known device limitations in Version 2.0.369.

**Table 3-19: Known Device Limitations in Version 2.0.369**

| Incident | Description |
|---|---|
| - | [Device Manager] Network administrators are recommended not to *provision* phones from both the Device Manager and the Microsoft admin portal, though they can *monitor* from both Device Manager and Microsoft admin portal at the same time. |
| IPPAN-3283 | When using multiple users on a single phone (i.e., if user A signs out and then signs in with user B), AudioCodes' Device Manager may present the wrong username. |
| IPPAN-8959 | [SCEP] The device is not getting a CA certificate from the NDES server. The issue will be fixed in the next version release. |
| IPPAN-8037 | The device encounters sign-in issues when configured with 'Static IP' and 'LLDP'. |
| IPPAN-9363 | [RXV81↔RX-PAD] In some cases, the 'volume' display on the RXV81 is not showing the correct value. |

| Incident | Description |
|---|---|
| IPPAN-9325 | [RXV81↔RX-PAD] Device Settings > Screen timeout > 'Never' can't be synced from RX-PAD to RXV81. |
| IPPAN-8669 | [RXV81] USB Ad-Hoc popup message is incorrectly displayed during a firmware update that involves an upgrade of the Audio module. |

# 3.11    Version 2.0.300

## 3.11.1   What's New

> **Note:**
>
> • Version 2.0.300 includes Microsoft Teams app version 2023041207.
> • For a list of new features / resolved limitations in the app, go here.
> • To update to version 2.0.300, the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.300.

■ RXV81 version 2.0.300 supports AudioCodes' **RX-PAD Meeting Room Controller**, a center-of-room intelligent touch controller that provides access to the RXV-81 Meeting Room.



> **Note:**
>
> • Only applies to users who acquire the RXV81 bundle **TEAMS-RXV81-B10**.
> • Optionally replaces the RC available in the RXV81 bundle **TEAMS-RXV81**.
> • See details about the RXV81 bundles here.

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 here for the Overview on AudioCodes' website.
• See here for the Datasheet on AudioCodes' website.
• See the RX-PAD Meeting Room Controller Pairing Guide for information about how to pair the controller with the RXV81.

The table below explains how RX-PAD is used. Use it as reference to the figure above.

**Table 3-20: RX-PAD Interface Description**

| 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 'activates' the display screen from screensaver mode if the user nears the sensor's location, triggering automatic lighting to greet the user. |
| 7 | LED indications:<br>▪ If illuminated red (constantly, without flashing), it indicates 'No network'.<br>▪ Flashing red indicates a system alert, for example, when a user tries to charge via the device's USB port.<br>▪ Flashing yellow indicates that the device is in the process of a software upgrade. |

The table below shows RX-PAD specifications.

**Table 3-21: RX-PAD Specifications**

| Feature | Specification |
|---|---|
| Display | Landscape Touch 8" LCD (1280 x 800 resolution) |
| Device interfaces | • Ethernet: 10/100/1000 Mbps (RJ-45) network interface (PoE) Wi-Fi (dual band support)<br>• Bluetooth 5.0<br>• 12V/3A DC power input<br>• Proximity Sensor (see the previous table for a description) |
| Network provisioning | • TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN)<br>• Layer 3 TOS and DSCP RTCP support: (RFC 1889)<br>• IP address configuration: TCP/IP (Ipv4), DHCP/static IP Time and date synchronization: SNTP |
| OS | Android 12 |
| UC platform support highlights | • Intuitive meeting experience with calendar integration and click-to-join meetings or proximity join experience<br>• Easy-to-use touch controller for meeting management |

### 3.11.1.1 Resolved Limitations in Version 2.0.300

#### 3.11.1.1.1 Device

**Table 3-22: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-8960 | [SCEP] The device obtains device.crt whose signature algorithm is sha256 from the NDES server and cannot successfully authenticate 802.1x TLS. The issue will be fixed in the next version release. |
| DWC-980 | The device may send a false alarm for CA Certificate provisioning with Response Code 600 to the Device Manager. |
| IPPAN-8965 | The RXV81 cannot detect the USB 3.0 Flash Drive for recovery or for touch screen purposes. |
| IPPAN-9109 | On some occasions, the device returns a successful result for a firmware update that somehow stops in the middle due to a cURL failure. |

### 3.11.1.2 Known Limitations in Version 2.0.300

#### 3.11.1.2.1 Teams Application

Here are the known Teams application limitations in Version 2.0.300

**Table 3-23: Known Teams Application Limitations in Version 2.0.300**

| Incident | Description |
|---|---|
| IPPAN-2270, IPPAN-4548 | [RXV80, C450HD] The device sometimes displays a 'Poor internet connection' message in the main screen for a few seconds and then the message disappears. |

| Incident | Description |
|---|---|
| IPPAN-5082 | When using right-to-left languages (Hebrew, for example), the soft dial pad and displayed dial string are reverted. |
| IPPAN-2510 | An incorrect date format is displayed when the current language is Simple Chinese. |
| - | In some cases, signing in as user B after the device was used by user A does not proceed flawlessly. Restore to default is consequently recommended after signing out. |
| IPPAN-8115 | [RXV81↔RX-PAD] After rebooting signed-in and paired devices, Teams pairing is sometimes lost and a request to connect to RXV81 appears on RX-PAD. |
| IPPAN-8822 | [RXV81↔RX-PAD] When a meeting starts, the RX-PAD camera icon is shown as disabled while it is actually enabled. After 15-20 minutes, the icon starts showing the correct status. |
| - | There is no video in third-party Webex Meeting. |

### 3.11.1.2.2 Device

Here are the known device limitations in Version 2.0.300.

**Table 3-24: Known Device Limitations in Version 2.0.300**

| Incident | Description |
|---|---|
| - | [Device Manager] Network administrators are recommended not to *provision* phones from both the Device Manager and the Microsoft admin portal, though they can *monitor* from both Device Manager and Microsoft admin portal at the same time. |
| IPPAN-3283 | When using multiple users on a single phone (i.e., if user A signs out and then signs in with user B), AudioCodes' Device Manager may present the wrong username. |
| IPPAN-8959 | [SCEP] The device is not getting a CA certificate from the NDES server. The issue will be fixed in the next version release. |
| IPPAN-8037 | The device encounters sign-in issues when configured with 'Static IP' and 'LLDP'. |
| IPPAN-9326 | On some occasions, while performing firmware upgrade via Microsoft TAC, the firmware download might take an excessive amount of time and the upgrade will result in failure in Microsoft TAC even though the upgrade ends successfully. |
| IPPAN-9354 | [RXV81↔RX-PAD] On some occasions, the Teams pairing is lost and the user needs to re-pair the devices (will be fixed in the upcoming version release). |
| IPPAN-9367 | [RXV81↔RX-PAD] The 'Camera' hard key requires a long press to open 'Camera Settings'. It should be a simple press (will be fixed in the upcoming version release). |
| IPPAN-9242 | [RXV81↔RX-PAD] The admin password pushed from Microsoft TAC is implemented only on the RXV81 and not on the paired RX-PAD. |
| IPPAN-9363 | [RXV81↔RX-PAD] In some cases, the 'volume' display on the RXV81 is not showing the correct value. |
| IPPAN-9325 | [RXV81↔RX-PAD] Device Settings > Screen timeout > 'Never' can't be synced from the RX-PAD to the RXV81. |
| IPPAN-9347 | [RXV81] The device sometimes doesn't send an INIT command to the OVOC Device Manager after rebooting (will be fixed in the upcoming version release). |
| IPPAN-8669 | [RXV81] USB Ad-Hoc popup message is incorrectly displayed during a firmware update that involves an upgrade of the Audio module. |

| Incident | Description |
|----------|-------------|
| IPPAN-9370 | [RX-PAD] Sometimes, touch navigation in the RX-PAD's 'Device Settings' is not smooth (will be fixed in the upcoming version release). |
| IPPAN-9360 | [RX-PAD] On some occasions, the Teams application does not load following 'Restore to default'. Workaround: Press the Teams icon from the AudioCodes application launcher. (The issue will be fixed in the upcoming version release). |
| IPPAN-9310 | [RX-PAD] Device Settings → Accessibility TalkBack doesn't function (will be fixed in the upcoming version release). |
| IPPAN-9372 | [RX-PAD] The '=' key is not being recognized on the RXV81 when selected from the RX-PAD keyboard. |
| IPPAN-9374 | [RX-PAD] A message stating that 'RXV81 is signed out' is mistakenly displayed for a while immediately after the RX-PAD reboot (while the RXV81 is correctly signed in). |
| IPPAN-9217 | Setting MTU (maximum transmission unit) via DHCP Option 26 does not work. |

## 3.12    Version 2.0.264

### 3.12.1    What's New

> **Note:**
> - Version 2.0 includes Microsoft Teams Version 2022120503.
> - To update to version 2.0, the RXV81 must have version 1.18.361 or later. Devices with older versions can use 1.19.341 as an intermediate version and then proceed to 2.0.

- Microsoft Teams app 2022120503. For the list of new features / resolved limitations in the app, go here.

> **Note:**
> - Microsoft has meanwhile released a newer app, 2023031201, which will be part of the next RXV81 Meeting Room version release. It can be installed via Microsoft TAC and AudioCodes Device Manager for now.
> - For a list of new features / resolved limitations in the newer app, go here.

- Version 2.0 is based on Android OS12
- Improved video and audio performance
- Device Manager displays an alarm if the Display port (TV) is not connected.
- The built-in versions of the RXV81 camera and speaker are reported in the device's user interface and in the Device Manager's 'Show Info' tab.
- Device settings have been updated. **The settings of 'Personal account' and 'Shared account' are now aligned**.

  If the user signs in to the device with a 'Personal account', they'll view, for example, the 'Language' setting under 'User' settings. If the user signs in with a 'Shared account', however, they'll view the 'Language' setting under 'Device admin settings'.

  The table below shows 'Language' and 'Date/Time Format' settings as examples.

**Table 3-25: Examples of Settings across 'Personal account' and 'Shared account''**

| Setting | Viewed under |
|---|---|
| Language | Personal account: User settings<br>Shared account: Device admin settings |
| Date/Time Format | Personal account: User settings<br>Shared account: Device admin settings |

The figure below shows some settings distributed under 'User' and 'Device admin settings' after signing in with a 'Shared account'.
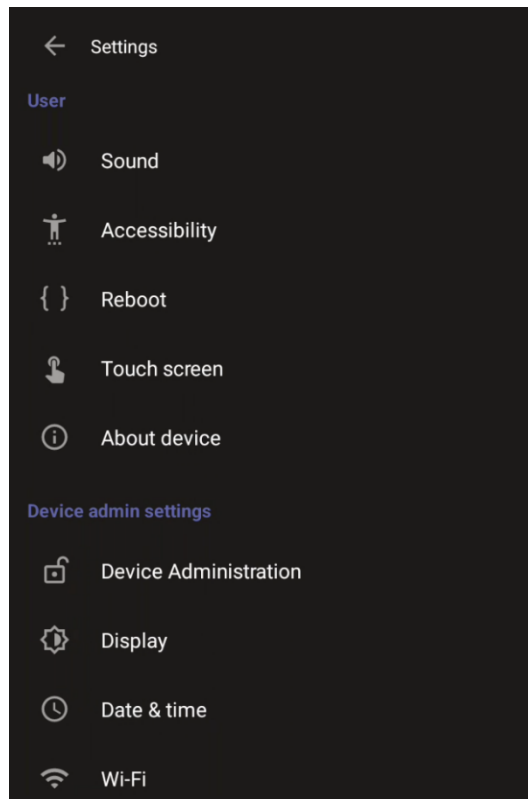


- ◼ **Version 2.0 supports Live Teams Cloud deployments**. It's mandatory for devices managed by Device Manager Live Teams Cloud (OVOC Version 8.2.1000_FIX1) to use this version.

## 3.13    Version 1.19.341

### 3.13.1    What's New

> **Note:**
>
> - Version 1.19.341 includes Microsoft Teams Version 2022090606.
> - See here the list of Microsoft Teams features supported by the RXV81.
> - See here the list of device features.
> - RXV81 Android MTR is currently in a certification process, planned to be fully Microsoft Teams certified in Q1-2023.

■ **Using the RXV81 MTR on Android Video Collaboration Bar as an ad hoc peripheral** - the device can be used in ad hoc peripheral mode.

- Newly supported **Remote Control (RC) actions** that participants can perform during a video call / meeting when using the device with the ad hoc USB A/V peripheral:
  - ◆ Volume
  - ◆ Mute
  - ◆ Camera on/off
- 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 Remote Control to increase or decrease volume, mute or unmute audio, and switch the camera on or off.

■ **For RXV81**, **the VLAN configuration is now by default data VLAN** rather than voice VLAN, in compliance with the requirement specified here for the device not to advertise itself as a voice device.

The VLAN configuration has consequently been updated. The default CDP/LLDP configuration has been changed to data VLAN.

■ The device now supports **a strong password check** in order to log in as Administrator. The feature strengthens security.

Note that the default password:

- Must be changed before accessing the device via SSH.
- Can be changed per device in the user interface (the user first enters the default password and is then prompted to modify it to a more complete password), or via bulk configuration of multiple devices using Microsoft's TAC or AudioCodes' Device Manager.

**Criteria required for a strong password are provided**. The password must:

- be greater than or equal to 8 characters in length
- contain one or more uppercase characters
- contain one or more lowercase characters
- contain one or more numeric values

- • contain one or more special characters

■ [Feature in preview] The RXV81 now supports **certificate enrollment using Simple Certificate Enrollment Protocol** (SCEP) using Microsoft's Network Device Enrollment Service (NDES) server, 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, 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

See the table in the *RXV81 MTR on Android Video Collaboration Bar User's and Administrator's Manual* for SCEP parameter descriptions.

■ **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 (see here for more information).

■ Network administrators can now **configure Wi-Fi settings via the Configuration File**. The Wi-Fi settings application on the device and the Configuration Database are synchronized.

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

■ AudioCodes' *Android Phone Utility* management application has been updated to version 1.1.30, including a name change (it was previously *Teams IP Phone Utility*). Updates include:

- • Updated certificate loading mechanism: It's now performed using HTTP; it was previously performed using SCP. The HTTP port is 8000. Network administrators must make sure the port is not blocked by the organization's firewall.
- • New support for **device certificates to be provisioned in .pfx format** (combining .crt and key) (see also here).

### 3.13.1.1 Resolved Limitations in Version 1.19.341

#### 3.13.1.1.1 Device

⚠️ **Note:** The Teams application version in this release is 2022090606.

**Table 3-26: Resolved Device Limitations**

| Incident | Description |
|---|---|
| IPPAN-7336 | The user is not able to access the Company Portal permission screen after a Restore Defaults and while trying to sign into the device. This is due to missing Application Admin privileges. |
| IPPAN-6528 | Provisioned CAs are not used when 'Use system certificates' is chosen. |
| IPPAN-7300 | Language & Input > Voice input key does not work when the toggle button is enabled. |
| IPPAN-7179 | The 'Page soft key back button' option is not present in the 'Pico TTS page' settings. |
| IPPAN-6134 | The 'back' arrow is missing in Japanese IME keyboard settings. |
| IPPAN-6831 | The 'Time' parameter in Device Settings > Power saving mode is displayed in 24-hour format even when 'Time Format' is set to 12-hour. |
| IPPAN-6285 | When using Japanese language, the "." (period) does not function. |
| IPPAN-6954 | After a new device certificate has been provisioned (replacing the factory certificate), it cannot be seen in the device screen so the user cannot select it. |
| IPPAN-7927 | [HTTPS Proxy] On some occasions, when the phone gets its configuration from the Device Manager, the proxy configuration gets deleted. As a result, the device becomes unusable; users aren't able to make or receive calls and the device is displayed as 'offline' in the TAC. |
| IPPAN-7583 | [HTTP Proxy] HTTP Proxy isn't accepted when entered using the device's user interface; there was no support for using * as Wildcard and using the URL as domain name in addition to the IP address. |
| IPPAN-7122 | [RXV81] The user is able to navigate to the 'Device storage' page. |
| IPPAN-7052 | Sometimes, the device displays the message 'Settings isn't responding' after pressing the 'Camera Reset' button. |
| IPPAN-6874 | When using a language other than the default language and trying to use the Camera Settings to change the PTZ, the RXV81 quits the Camera Settings page. |
| IPPAN-7076 | On some occasions, when using the Camera Settings PTZ +/- keys, the Camera Settings view disappears, and the volume appears instead. |
| - | The remote controller does not function when the RXV81 is in ad hoc peripheral mode. It will be supported as part of the next release of the RXV81. |

### 3.13.1.2 Known Limitations in Version 1.19.341

#### 3.13.1.2.1 Teams Application

Here are the known Teams application limitations in Version 1.19.341.

**Table 3-27: Known Teams Application Limitations in Version 1.19.341**

| Incident | Description |
|---|---|
| - | - |

#### 3.13.1.2.2 Device

Here are the known device limitations in Version 1.19.341.

**Table 3-28: Known Device Limitations in Version 1.19.341**

| Incident | Description |
|---|---|
| - | [Device Manager] Administrators are recommended not to *provision* devices from both the Device Manager and the Microsoft Admin Portal. *Monitoring* from both Device Manager and the Microsoft Admin Portal at the same time is not an issue. |

# 3.14    Version 1.18.349

**Note:** Version 1.18.349 is the first release of the RXV81.

## 3.14.1   What's New

**Note:**

- Version 1.18.349 includes Microsoft Teams Version 2022072103/0721.
- See here the list of Microsoft Teams features supported by the RXV81.
- See here the list of device features.
- RXV81 Android MTR is currently in a certification process, planned to be fully Microsoft Teams certified in Q4-2022.

### 3.14.1.1 Resolved Limitations in Version 1.18.349

#### 3.14.1.1.1 Device

**Note:**

- Version 1.18.349 is the first release of the RXV81.
- The Teams application version in this release is 2022072103.

**Table 3-29: Resolved Device Limitations**

| Incident | Description |
|----------|-------------|
| N/A | N/A |

## 3.14.1.2  Known Limitations in Version 1.18.349

### 3.14.1.2.1 Teams Application

Here are the known Teams application limitations in Version 1.18.349.

**Table 3-30: Known Teams Application Limitations in Version 1.18.349**

| Incident | Description |
|----------|-------------|
| - | - |

### 3.14.1.2.2 Device

Here are the known device limitations in Version 1.18.349.

**Table 3-31: Known Device Limitations in Version 1.18.349**

| Incident | Description |
|----------|-------------|
| IPPAN-7052 | Sometimes, the device displays the message 'Settings isn't responding' after pressing the 'Camera Reset' button. |
| IPPAN-6874 | When using a language other than the default language and trying to use the Camera Settings to change the PTZ, the RXV81 quits the Camera Settings page. |
| IPPAN-7076 | On some occasions, when using the Camera Settings PTZ +/- keys, the Camera Settings view disappears, and the volume appears instead. |
| - | The remote controller does not function when the RXV81 is in ad hoc peripheral mode. It will be supported as part of the next release of the RXV81. |
| - | [Device Manager] Administrators are recommended not to *provision* devices from both the Device Manager and the Microsoft Admin Portal. *Monitoring* from both Device Manager and the Microsoft Admin Portal at the same time is not an issue. |

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