

RXV81 Microsoft Teams Rooms (MTR) on Android™ Video Collaboration Bar

Version 1.19.341



Microsoft Partner

Gold Communications



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Date Published: Jan-25-2023

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Abbreviations and Conventions

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

Related Documentation

Document Name
RXV81 Standalone Video Collaboration Bar Deployment Guide
RXV81 Standalone Video Collaboration Bar User's & Administrator's Manual
One Voice Operation Center (OVOC) Release Notes
One Voice Operation Center (OVOC) User's Manual
Device Manager Administrator's Manual

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1 Introduction

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 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 Highlights

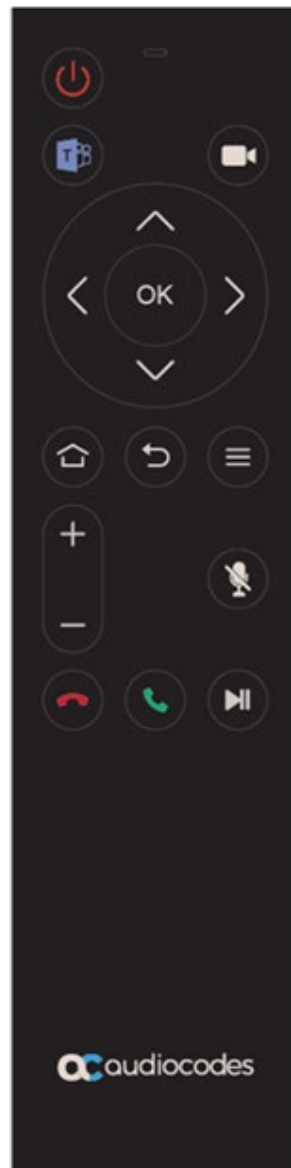
RXV81 feature highlights:

- **Plug-and-Play Simplicity for Fast Setup.**

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

- **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: 120°/ H: 110°/ V: 75°
- **Easy to Manage from Anywhere.**
Enhance the meeting experience with centralized device management and monitoring from any location.
- **Peripheral Mode.**
The RXV81 can be used on an ad hoc basis as a USB A/V peripheral for any UC client.

1.2 Benefits

- Intuitive meeting experiences with one click to join using the 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 managed Bluetooth remote control unit.
- Managed using AudioCodes' One Voice Operations Center (OVOC) Device Manager or Microsoft's Teams admin center (TAC).

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: 120°/ H: 110°/ V: 75°
- Adjustable camera position with ePTZ support - 5x zoom - digital 5x zoom in. Manually vertically (up/down) adjustable $\pm 15^\circ$.
- 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).

1.4 Specifications

The following table shows the RXV81 specifications.

Table 1-1: Specifications

Feature	Details
Video capabilities	<ul style="list-style-type: none"> ▪ Ultra HD 4k image sensor ▪ Super-wide angle horizontal field of view: 110° ▪ Lens: Fixed focus ▪ ePTZ capable, digital 5x zoom in ▪ Output resolution: 1080p ▪ Frame rate: 30 fps ▪ Manually adjustable, vertically (up/down) ±15° ▪ High Dynamic Range (HDR) automatically ON - Wide Dynamic Range (WDR).
Audio	<ul style="list-style-type: none"> ▪ Full duplex, noise suppression, acoustic Echo Cancellation, voice separation ▪ 6x beamforming microphone array ▪ Voice pickup range: 4.5m (15ft) ▪ 10W speaker
Device Interfaces	<ul style="list-style-type: none"> ▪ HDMI output to TV ▪ Power/reset button ▪ USB 3.0 Type A (host) marked 1 to allow touch LCD or connectivity to wireless KB via BT USB dongle ▪ Ethernet: 10/100/1000 Mbps (RJ-45) network interface ▪ USB2.0 Type-C (device) marked 2 to connect to PC/MAC BYOD device (peripheral mode) ▪ 3 status LEDs indicating camera on/off, mute on, call state, device health ▪ Wi-Fi (dual band support) ▪ Bluetooth 5.0 ▪ 12V/3A DC power input ▪ Bluetooth managed remote controller
Network Provisioning	<ul style="list-style-type: none"> ▪ TCP/IP (IPv4), DHCP/ static IP; Time and date synchronization via SNTP; VLAN support; QoS support: IEEE 802.1p/Q tagging (VLAN) ▪ Layer 3 TOS and DSCP RTCP support: (RFC 1889) ▪ IP address configuration: TCP/IP (IPv4), DHCP/static IP Time and date synchronization: SNTP ▪ QoS support: IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS and DSCP RTCP support: (RFC 1889)
OS	<ul style="list-style-type: none"> ▪ Android 9.0 with short-term roadmap for Android 12
Security	<ul style="list-style-type: none"> ▪ Encryption: TLS (Transport Layer Security), SRTP encryption for media, AES256 ▪ Network Access Control: IEEE 802.1x ▪ Built-in certificate
Management	<ul style="list-style-type: none"> ▪ AudioCodes Device Manager, a plugin of AudioCodes One Voice Operations Center (OVOC)
Microsoft Teams Features (Android MTR)	<ul style="list-style-type: none"> ✓ Calendar integration (with meeting preview) and one click to join Teams meetings ✓ Meet now option

Feature	Details
	<ul style="list-style-type: none"> ✓ Simple sign-in interface from browser or smartphone with a code ✓ 'Direct guest join' to allow joining a third-party meeting ✓ 'Cast info' from mobile to the RXV81 screen over Bluetooth ✓ 'Room remote' using Teams mobile app allowing to control the RXV81 ✓ Remote sign-out from Microsoft Teams admin center (TAC). ✓ Hide names and meeting titles for individual devices ✓ Meeting stage ✓ Multi-spotlight ✓ Docked meeting controls ✓ Reactions ✓ Control camera/mic for attendees ✓ Live Captions in regular one-on-one calls and in Teams meetings ✓ Whiteboard support when signed in with personal account (short term roadmap for whiteboard support with room account) ✓ Multi-cloud sign-in support ✓ Remote provisioning and sign-in from TAC
RXV81 Device Feature Set	<ul style="list-style-type: none"> ▪ Camera settings with different privileges for user and Admin ▪ In idle (Admin) and during a call/meeting (all users), long-pressing the camera button on the RC allows: <ul style="list-style-type: none"> ✓ Defining/editing a new preset ✓ Moving to different presets ✓ Changing all settings options ▪ Video quality: Resolution of 1080p on the decoder side and 720p on the encoding side ▪ RXV81 integration with AudioCodes OVOC-DM ▪ RXV81 Alerts to AudioCodes OVOC-DM: <ul style="list-style-type: none"> ✓ Notification sent to screen/TV and to Device Manager if Remote Control is disconnected or if it's malfunctioning ✓ Notification sent to screen/TV and to Device Manager if Remote Control battery voltage level falls low, indicating what percentage level remains unused ✓ Remote Control flashes if the connection to the RXV81 fails. ▪ Camera frequency set per power supply: <ul style="list-style-type: none"> ✓ 110V – 60Hz ✓ 220V – 50Hz ▪ Shortcut keys for administrators to manually perform recovery operations ▪ Ad-Hoc Peripheral Mode allows connecting the RXV81 via USB to the PC as a peripheral device (Feature in Preview)

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2 Version 1.19.341

2.1 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](#)).



2.1.1 Resolved Limitations in Version 1.19.341

2.1.1.1 Device



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

Table 2-1: 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.

2.1.2 Known Limitations in Version 1.19.341

2.1.2.1 Teams Application

Here are the known Teams application limitations in Version 1.19.341.

Table 2-2: Known Teams Application Limitations in Version 1.19.341

Incident	Description
-	-

2.1.2.2 Device

Here are the known device limitations in Version 1.19.341.

Table 2-3: Known Device Limitations in Version 1.19.341

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

3 Previous Releases



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

3.1 Version 1.18.349

3.1.1 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.

3.1.1.1 Resolved Limitations in Version 1.18.349

3.1.1.1.1 Device



Note:

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

Table 3-1: Resolved Device Limitations

Incident	Description
N/A	N/A

3.1.1.2 Known Limitations in Version 1.18.349

3.1.1.2.1 Teams Application

Here are the known Teams application limitations in Version 1.18.349.

Table 3-2: Known Teams Application Limitations in Version 1.18.349

Incident	Description
-	-

3.1.1.2.2 Device

Here are the known device limitations in Version 1.18.349.

Table 3-3: 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 <i>provision</i> devices from both the Device Manager and the Microsoft Admin Portal. <i>Monitoring</i> from both Device Manager and the Microsoft Admin Portal at the same time is not an issue.

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Document #: LTRT-08564

